

THE NEW ZEALAND OFFICIAL YEAR-BOOK, 1954

Table of Contents

[PREFACE](#)

[1. SECTION 1—DESCRIPTIVE](#)

[2. SECTION 2—CONSTITUTION](#)

[3. SECTION 3—POPULATION](#)

[4. SECTION 4—VITAL STATISTICS](#)

[4 A—BIRTHS](#)

[4 B—MARRIAGES](#)

[4 C—DEATHS](#)

[4 D—MAORIS](#)

[4 E—TOTAL POPULATION, INCLUDING MAORIS](#)

[4 F—MORBIDITY](#)

[5. SECTION 5—PUBLIC HEALTH, HOSPITALS, ETC.](#)

[5 A—PUBLIC HEALTH](#)

[5 B—HOSPITALS AND CHARITABLE INSTITUTIONS](#)

[5 C—MENTAL HOSPITALS](#)

[6. SECTION 6—EDUCATION](#)

[7. SECTION 7—SOCIAL SECURITY, PENSIONS, SUPERANNUATION, ETC.](#)

[7 A—SOCIAL SECURITY](#)

[7 B—WAR PENSIONS, ETC.](#)

[7 C—SUPERANNUATION](#)

[7 D—NATIONAL PROVIDENT FUND](#)

[7 E—FRIENDLY SOCIETIES](#)

[8. SECTION 8—JUSTICE](#)

[9. SECTION 9—DEFENCE AND REHABILITATION](#)

[9 A—DEFENCE](#)

[9 B—REHABILITATION](#)

[10. SECTION 10—EXTERNAL TRADE](#)

[10 A—GENERAL](#)

[10 B—EXPORTS](#)

[10 C—IMPORTS](#)

[10 D—CUSTOMS TARIFF AND REVENUE](#)

[11. SECTION 11—SHIPPING AND TRADE OF PORTS](#)

[12. SECTION 12—RAILWAYS](#)

[13. SECTION 13—ELECTRIC TRAMWAYS AND ASSOCIATED TRANSPORT](#)

[14. SECTION 14—ROADS AND ROAD TRANSPORT](#)

[15. SECTION 15—CIVIL AVIATION AND AIR TRANSPORT](#)

[16. SECTION 16—POSTAL AND TELEGRAPHIC](#)

[17. SECTION 17—RADIO BROADCASTING](#)

[18. SECTION 18—LAND TENURE, SETTLEMENT, VALUATION, ETC.](#)

[18 A—GENERAL](#)

[18 B—CROWN LANDS](#)

[18 C—MAORI LANDS](#)

[18 D—SURVEYS AND MAPS](#)

[18 E—VALUATION OF LAND](#)

[19. SECTION 19—PRODUCTION: GENERAL](#)

[20. SECTION 20—FARM PRODUCTION](#)

[20 A—GENERAL](#)

[20 B—CROPS](#)

[20 C—LIVESTOCK](#)

[21. SECTION 21—FORESTRY](#)

[22. SECTION 22—FISHERIES](#)

[23. SECTION 23—MINERALS AND MINERAL PRODUCTION](#)

[24. SECTION 24—FACTORY PRODUCTION](#)

[25. SECTION 25—BUILDING, CONSTRUCTION, AND HOUSING](#)

[26. SECTION 26—ELECTRIC POWER AND GAS: GENERATION AND SUPPLY](#)

[26 A—ELECTRIC POWER: GENERATION AND SUPPLY](#)

[26 B—GAS: GENERATION AND SUPPLY](#)

[27. SECTION 27—CONSUMPTION OF COMMODITIES](#)

[28. SECTION 28—DISTRIBUTION](#)

[29. SECTION 29—SOCIAL ACCOUNTS](#)

[29 A—NATIONAL INCOME AND EXPENDITURE](#)

[29 B—INDUSTRY SECTOR ACCOUNTS](#)

[29 C—BALANCE OF PAYMENTS](#)

[30. SECTION 30—GENERAL GOVERNMENT FINANCE](#)

[30 A—REVENUE AND EXPENDITURE](#)

[30 B—TAXATION](#)

[30 C—STATE INDEBTEDNESS](#)

[31. SECTION 31—LOCAL GOVERNMENT](#)

[32. SECTION 32—BANKING AND CURRENCY](#)

[33. SECTION 33—INVESTMENT AND FINANCE](#)

[33 A—MORTGAGES](#)

[33 B—STATE ADVANCES](#)

[33 C—BUILDING SOCIETIES](#)

[33 D—JOINT STOCK COMPANIES](#)

[34. SECTION 34—INSURANCE](#)

[34 A—LIFE ASSURANCE](#)

[34 B—ACCIDENT INSURANCE](#)

[34 C—FIRE INSURANCE](#)

[34 D—STATE INSURANCE ACTIVITIES](#)

[35. SECTION 35—INCOMES AND INCOME TAX](#)

[36. SECTION 36—PRICES](#)

[37. SECTION 37—WAGE RATES AND HOURS OF LABOUR](#)

[38. SECTION 38—LABOUR LAWS AND ALLIED LEGISLATION](#)

[38 A—HISTORICAL INTRODUCTION](#)

[38 B—WORKING CONDITIONS](#)

[38 C—WAGES AND WAGE RATE LEGISLATION: STABILIZATION](#)

[38 D—LABOUR DISPUTES LEGISLATION](#)

[38 E—APPRENTICESHIP AND TRADES CERTIFICATION LEGISLATION](#)

[38 F—WORKERS' COMPENSATION, EMPLOYMENT AND UNEMPLOYMENT LEGISLATION](#)

[38 G—HOUSING AND TENANCY LEGISLATION](#)

[39. SECTION 39—EMPLOYMENT AND UNEMPLOYMENT](#)

[40. SECTION 40—INDUSTRIAL UNIONS](#)

[41. SECTION 41—INDUSTRIAL DISPUTES](#)

[42. SECTION 42—INDUSTRIAL ACCIDENTS](#)

[43. SECTION 43—ISLAND TERRITORIES](#)

[44. SECTION 44—MISCELLANEOUS](#)

[45. SECTION 45—OFFICIAL](#)

[GOVERNOR-GENERAL OF NEW ZEALAND](#)

[SUCCESSIVE MINISTRIES AND PREMIERS](#)

[MEETING OF THE PRIVY COUNCIL](#)

[EXECUTIVE COUNCIL, FEBRUARY 1954](#)

[HOLLAND MINISTRY, FEBRUARY 1954](#)

[PARLIAMENTARY UNDER-SECRETARIES, FEBRUARY 1954](#)

[PARLIAMENTARY SESSIONS](#)

[HOUSE OF REPRESENTATIVES](#)

[JUDICIARY](#)

[HONOURS](#)

[CIVIL DIVISION](#)

[MILITARY DIVISION](#)

[SPECIAL OPERATIONAL AWARDS](#)

[ROYAL TOUR HONOURS LIST](#)

[AWARDS](#)

[CIVIL DIVISION](#)

[GOVERNMENT DEPARTMENTS](#)

[THE PUBLIC SERVICE](#)

[NEW ZEALAND REPRESENTATIVES OVERSEAS](#)

[OVERSEAS REPRESENTATIVES IN NEW ZEALAND](#)

[46. STATISTICAL SUMMARY](#)

[STATISTICAL SUMMARY FOR NEW ZEALAND](#)

[POPULATION AND EXTERNAL MIGRATION \(INCLUDING MAORIS\)](#)

[A. APPENDICES](#)

[\(a\) PRINCIPAL EVENTS](#)

[\(b\) LIST OF ARTICLES ON SPECIAL SUBJECTS APPEARING IN PREVIOUS ISSUES OF THE YEAR-BOOK](#)

[\(c\) GENERAL BIBLIOGRAPHY](#)

[BIBLIOGRAPHY AND LIBRARIES](#)

[RELIGION AND MYTHOLOGY](#)

[LAW](#)

[PHILATELY](#)

[LANGUAGE](#)

[BOTANY](#)

[ETHNOLOGY](#)

[SCIENCE: GENERAL](#)

[MEDICINE](#)

[POETRY](#)

[LITERATURE AND ART](#)

[FICTION](#)

[DESCRIPTION AND TRAVEL](#)

[BIOGRAPHY: COLLECTIVE](#)

[BIOGRAPHY: PERSONAL](#)

[HISTORY: GENERAL](#)

[HISTORY: SPECIAL](#)

[HISTORY: WAR](#)

[COOK AND OTHER ISLANDS](#)

[SAMOA](#)

[ROSS DEPENDENCY](#)

[\(d\) ROYAL TOUR OF NEW ZEALAND, 23 DECEMBER 1953 TO 30 JANUARY 1954](#)

[INDEX \(DETAILED\)](#)

PREFACE.

NEW moreover—" features in this issue of the Year-Book include a Section covering the results of the 1953 Census of Distribution and a short article on Gas Generation and Supply. Several Sections have been extensively rewritten—namely, Building and Construction, Imports, Roads and Road Transport, and Government Finance.

A short article on the Royal Tour is included as Appendix (d) to this volume.

My sincere thanks are due to all who assisted in the preparation and printing of the Year-Book.

G. E. WOOD,
Government Statistician,
Census and Statistics Department, 1 July 1954.

PUBLICATIONS OF THE NEW ZEALAND CENSUS AND STATISTICS DEPARTMENT (OBTAINABLE FROM THE GOVERNMENT PRINTER, WELLINGTON)

Title	Latest No.	Date of Issue	Price Per Copy		Postage (Extra)	
			s.	d.	s.	d.
New Zealand Official Year-Book	1954	September 1954	15	0	1	2
Pocket Digest of New Zealand Statistics	1953	April 1954	3	6		2
Annual Statistical Reports:						
Population and Buildings Statistics	1952-53	February 1954	6	6		3
Vital Statistics	1952	September 1953	5	6		2

* Published by the Customs Department.

† £2 2s. per annum (post free).

‡ Cyclostyled copies showing numbers with overseas War Service, enumerated in each county, borough, and town district at the 1951 Census, are available on application (no charge) from the Department.

§ Being prepared for printing.

NOTE.—This list is subject to revision from time to time.

Title	Latest No.	Date of Issue	Price Per Copy		Postage (Extra)	
			s.	d.	s.	d.
Justice Statistics	1952	May 1954	10	6		4
External Trade (Part A, Exports)*	1949 and 1952	December 1953	15	0		5
External Trade (Part B, Imports)*	1949 and 1952	April 1954	17	6		8
Shipping and other Transport Statistics	1949 to 1952	August 1954	13	0		4
Report on, and Analysis of, External Trade Statistics	1949 to 1952	October 1954	9	6		4
Farm Production Statistics	1952-53	June 1954	5	0		3
Factory Production Statistics	1951-52	June 1954	22	6		10
Insurance Statistics	1952	May 1954	4	6		3
Prices, Wages, and Labour Statistics	1951-52 and 1952-53	June 1954	8	6		4
Industrial Accidents	1951 and 1952	†				
Income and Income Tax Statistics for the Income Year	1950-51	May 1954	9	0		4
National Income and Sector Accounts	1938-39 to 1953-54	August 1954	6	0		3
Balance of Payments	1950-51 to 1953-54	In the Press				
Local Authorities Handbook of New Zealand	1951-52	March 1954	15	0		7
Monthly Abstract of Statistics [‡]			4	0		2
Supplements:						
Retail Trading Statistics (Sept. Abstract)	June Quarter	October 1954				
Population Projections:						
New Zealand (Incl. Maori) (December Abstract)		December 1953				
Non-Maori (October Abstract)		November 1953				
Factory Production Statistics (April Abstract)	1952-53	May 1954				
Special Supplements:						
New Zealand Life Tables (non-Maori) (July Abstract)	1950-52	August 1953	1	6		2
New Zealand Life Tables (Maori) (November Abstract)	1950-52	December 1953	1	6		2
Retail Prices in New Zealand (October–November) Abstract		December 1949	2	0		2
Census of Distribution, 1953	1953	April 1954	6	0		4
Maps of Urban Areas, 1951	1951	January 1953	20	0		3
Census of Public Libraries, 1949	1949	January 1952	2	6		2
Volumes of 1951 Census Results:						
Vol. I. Increase and Location of Population	1951	April 1953	7	6		4
Vol. II. Ages and Marital Status	1951	January 1954	10	6		4
Vol. III. Religious Professions (Including Summaries for Dependent Children, Race, and War Service)	1951	November 1953	5	0		2
Vol. IV. Industries, Occupations and Incomes	1951	September 1954	12	6		5
Vol. V. Birthplace and Duration of Residence of Overseas-Born	1951	In the Press				
Vol. VI. Maori Census	1951	†				
Vol. VII. Dwellings and Households	1951	August 1954	6	0		2
Appendix A. Census of Poultry	1951	February 1953	2	6		2
Appendix B. Life Tables 1950-52 and Values of Annuities	1951	†				
War Service [‡]	1951	November 1953				

* Published by the Customs Department.

† £2 2s. per annum (post free).

‡ Cyclostyled copies showing numbers with overseas War Service, enumerated in each county, borough, and town district at the 1951 Census, are available on application (no charge) from the Department.

§ Being prepared for printing.

NOTE.—This list is subject to revision from time to time.

LATEST STATISTICAL INFORMATION

FOR some of the statistical series included in this issue of the Year-Book later information is available than is included in the body of the book. This later information is given in the following paragraphs, with references to the appropriate portion of the Year-Book containing more detailed information for earlier periods.

POPULATION

Inter-censal Population (p. 25).—Recent population changes are given in the following table.

POPULATION AT END OF YEAR

Year Ended	Males		Females		Total	Mean Population for Year
	1953	1954	1953	1954		
<i>Total Population (Including Maoris)</i>						
30 June 1953	1,029,459	1,017,932	1,047,391			2,022,684
30 September 1953	1,036,246	1,024,443	2,060,689			2,035,903
31 December 1953	1,043,143	1,031,638	2,074,781			2,048,826
31 March 1954	1,049,963	1,037,777	2,087,740			2,061,376
<i>Maori Population</i>						
30 June 1953	63,476	60,617	124,093			122,143
30 September 1953	64,010	61,158	125,168			123,132
31 December 1953	64,507	61,639	126,146			124,146
31 March 1954	65,141	62,243	127,384			125,174

The above figures are exclusive of the population of the Cook Islands, 15,657; Niue Island, 4,708; and Tokelau Islands, 1,753 (all at 31 March 1954), and the population of Western Samoa, 91,988 (at 31 March 1954).

Natural Increase.—Owing to the uniformly high levels in births in the last few years and the relative stability in the number of deaths, population gains from natural increase—i.e., excess of births over deaths—have been particularly marked in recent years, the excess of births over deaths in 1953 at 33,589 constituting a record.

Migration (pp. 26-29).—The total number of arrivals in New Zealand during the year ended 31 March 1954 was 125,096, while the total number of departures in the same year was 110,049. Excluding crews and through passengers, arrivals totalled 61,845 and departures 46,404, making the net excess of arrivals 15,441, as compared with 22,032 in 1952-53. A classification of total arrivals and departures gives the following results.

	Year Ended 31 March	
	1953	1954
<i>Migration: Arrivals</i>		
Immigrants intending permanent residence	29,005	24,896
New Zealand residents returning	18,570	17,443

	Year Ended 31 March	
	1953	1954
—		
Visitors—		
Tourists	13,309	13,858
Others	5,356	5,648
Through passengers	5,645	7,448
Crews	55,231	55,803
Total arrivals	127,116	125,096

	Year Ended 31 March	
	1953	1954
—		
<i>Migration: Departures</i>		
New Zealand residents departing—		
Permanently	6,271	7,048
Temporarily	18,315	18,277
Temporary residents departing	19,622	21,079
Through passengers	5,645	7,448
Crews	56,929	56,197
Total departures	106,782	110,049

Until 1951–54 recent statistics of the numbers of immigrants intending permanent residence had shown considerable increases, arrivals under this heading being 18,234 in 1950–51, 24,922 in 1951–52, and 29,005 in 1952–53. This upward trend was not only halted in 1953–54 but in fact a decrease of 4,109 was shown, or slightly more than the gain registered in 1952–53, arrivals in 1953–54 totalling 24,896.

The resumption of assisted passages for certain classes of immigrants is reflected in the statistics. The following were the numbers arriving under this heading over the past four years: 1950–51, 2,928; 1951–52, 4,949; 1952–53, 7,581; 1953–54, 6,299.

The numbers of assisted migrants, which had been steadily rising over the last few years, showed a substantial drop during 1953–54; unassisted migration fell 13–2 per cent, as against a decrease of 16–9 per cent in assisted migrants.

VITAL STATISTICS

Vital statistics for the calendar years 1952 and 1953 are shown, in summary form, in the following table. Statistics in more detail for 1953 and earlier years are given on pages 55–108.

	1952		1953	
	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Mean Population
—				
Births—				
Europeans	46,469	24.77	46,414	24.12
Maoris	5,459	45.41	5,529	44.54
Total population	51,928	26.01	51,943	25.35
Deaths—				
Europeans	17,413	9.28	17,009	8.84
Maoris	1,483	12.34	1,345	10.84
Total population	18,896	9.47	18,354	8.96
Marriages (total)	17,061	8.55	17,224	8.41
Infant deaths under one year—				
Europeans	1,014	21.82*	931	20.06*
Maoris	461	84.45*	404	73.07*
Totals	1,475	28.40*	1,335	25.70*

* Infant mortality rates per 1,000 live births.

Births.—The total number of births registered in 1953 (51,943) is the highest recorded in the history of New Zealand, exceeding the previous high total in 1952 by 15. The birth-rate, however, is still below the high figure of 27.70 recorded in 1947.

Population Projections by Age Groups.—A projection by age groups of the non-Maori population appears in Section 3 of this publication. The following tables present projections by age groups of the total population, also separate figures for the Maori population only. The same assumptions regarding immigration have been utilized for the total population projections, while no allowance for migration movement has been made in projecting the Maori population.

POPULATION PROJECTIONS BY AGE GROUPS (INCLUDING MAORIS)

Age Groups	December 1951			December 1962		
	Males	Females	Total	Males	Females	Total
<i>(a) Assuming 10,000 Per Annum Net Inflow from Immigration</i>						
Under 5 years	129,350	122,600	251,950	136,050	128,950	265,000
5 and under 10 years	124,200	118,600	242,800	130,100	123,450	253,550
10 and under 15 years	105,850	101,300	207,150	125,700	119,950	245,650
15 and under 20 years	86,900	83,650	170,550	107,100	102,300	209,400
20 and under 25 years	71,900	68,100	140,000	89,700	85,000	174,700
25 and under 30 years	77,050	70,700	147,750	76,850	70,200	147,050
30 and under 35 years	81,150	75,000	156,150	81,050	72,850	153,900
35 and under 40 years	74,250	73,950	148,200	83,450	76,700	160,150
40 and under 45 years	70,300	70,950	141,250	75,400	74,700	150,100
45 and under 50 years	68,100	65,850	133,950	70,250	70,750	141,000
50 and under 55 years	59,200	56,600	115,800	66,500	64,700	131,200
55 and under 60 years	49,050	48,800	97,850	56,100	54,600	110,700
60 and under 65 years	37,050	41,700	78,750	44,700	45,950	90,650
65 years and over	90,460	107,370	197,830	91,210	114,260	205,470
Totals =	1,124,810	1,105,170	2,229,980	1,234,160	1,204,360	2,438,520
<i>(b) Assuming 5,000 Per Annum Net Inflow from Immigration</i>						
Under 5 years	127,950	121,250	249,200	132,850	125,900	258,750
5 and under 10 years	123,150	117,750	240,900	127,700	121,250	248,950
10 and under 15 years	104,850	100,500	205,350	123,700	118,300	242,000
15 and under 20 years	86,000	83,000	169,000	105,200	100,800	206,000
20 and under 25 years	70,100	67,200	137,300	87,000	83,450	170,450
25 and under 30 years	74,250	69,450	143,700	72,250	68,050	140,300
30 and under 35 years	78,800	73,700	152,500	75,950	70,300	146,250
35 and under 40 years	72,650	72,800	145,450	79,500	74,250	153,750
40 and under 45 years	69,200	70,100	139,300	72,700	72,750	145,450

Age Groups	December 1951			December 1962		
	Males	Females	Total	Males	Females	Total
45 and under 50 years	67,350	65,300	132,650	68,400	69,350	137,750
50 and under 55 years	58,750	56,250	115,000	65,350	63,800	129,150
55 and under 60 years	48,800	48,600	97,400	55,400	54,050	109,450
60 and under 65 years	36,900	41,500	78,400	44,350	45,600	89,950
65 years and over	90,260	106,870	197,130	90,860	113,260	204,120
Totals	1,109,010	1,094,270	2,203,280	1,201,210	1,181,110	2,382,320
<i>(c) Assuming no Net Inflow from Immigration</i>						
Under 5 years	126,550	119,900	246,450	129,650	122,850	252,500
5 and under 10 years	122,150	116,900	239,050	125,300	119,050	244,350
10 and under 15 years	103,850	99,700	203,550	121,750	116,600	238,350
15 and under 20 years	85,100	82,300	167,400	103,300	99,300	202,600
20 and under 25 years	68,300	66,350	134,650	84,300	81,900	166,200
25 and under 30 years	71,450	68,200	139,650	67,650	65,950	133,600
30 and under 35 years	76,450	72,350	148,800	70,800	67,700	138,500
35 and under 40 years	71,050	71,650	142,700	75,550	71,800	147,350
40 and under 45 years	68,050	69,250	137,300	69,950	70,800	140,750
45 and under 50 years	66,650	64,750	131,400	66,550	67,950	134,500
50 and under 55 years	53,300	55,900	114,200	64,200	62,900	127,100
55 and under 60 years	48,550	48,400	96,950	54,750	53,500	108,250
60 and under 65 years	36,800	41,300	78,100	44,000	45,200	89,200
65 years and over	90,060	106,420	196,480	90,410	112,360	202,770
Totals	1,093,310	1,083,370	2,176,680	1,168,160	1,157,860	2,326,020

POPULATION PROJECTIONS BY AGE GROUPS (MAORIS)

Age Groups	December 1957			December 1962		
	Males	Females	Total	Males	Females	Total
Under 5 years	14,350	13,500	27,850	17,050	16,050	33,100
5 and under 10 years	11,350	10,800	22,150	13,950	13,200	27,150
10 and under 15 years	9,050	8,700	17,750	11,250	10,700	21,950
15 and under 20 years	8,150	7,800	15,950	8,950	8,550	17,500
20 and under 25 years	6,600	6,450	13,050	7,950	7,650	15,600
25 and under 30 years	5,250	5,350	10,600	6,450	6,300	12,750
30 and under 35 years	4,250	4,300	8,550	5,100	5,200	10,300
35 and under 40 years	3,300	3,350	6,650	4,100	4,200	8,300
40 and under 45 years	2,850	2,950	5,800	3,150	3,200	6,350
45 and under 50 years	2,700	2,350	5,050	2,700	2,750	5,450
50 and under 55 years	2,000	1,650	3,650	2,500	2,150	4,650
55 and under 60 years	1,500	1,300	2,800	1,750	1,450	3,200
60 and under 65 years	1,000	800	1,800	1,250	1,050	2,300
65 years and over	1,660	1,470	3,130	1,810	1,560	3,370
Totals	74,010	70,770	144,780	87,960	84,010	171,970

PRODUCTION

Farm Production

Estimated Areas of Principal Crops, 1954 Season.—Estimates of areas sown under wheat, oats, barley, and potatoes were collected in the spring of 1953 by inquiry from growers of these crops, and from these estimates, together with reports from Field Officers of the Department of Agriculture at the end of January 1954, total yields of wheat, oats, and barley are estimated. In framing these estimates of yields due allowance is made for areas not threshed (fed off, etc.). Following are the estimates for 1953–54, together with the final figures for the preceding season 1952–53.

	1952–53 (Final Figures)		1953–54 (Estimated)	
	Area (Acres)	Yield (Bushels)	Area (Acres)	Yield (Bushels)
Wheat	135,736	4,525,298	110,000	4,600,000
Oats	120,878	2,385,129	70,000	1,200,000
Barley	69,288	2,139,886	70,000	2,500,000
Peas for threshing	27,265	614,417 (Tons)	30,000	* (Tons)
Potatoes	18,305	94,652	21,000	"

* Not available.

These figures relate only to holdings of 1 acre and over situated outside borough boundaries. In addition, in the case of potatoes, a fairly considerable amount in the aggregate is grown on smaller holdings and on holdings within borough boundaries.

Farm Production Statistics, 1953–54 Season.—The most striking feature of the 1953–54 statistics is the sustained increase in all classes of livestock. Dairy cows in milk, increasing by nearly 2 per cent, just failed to reach the 2 million mark, which will be a significant peak in the history of the dairy industry following on the first million mark having been reached in 1922. Details for the previous year are shown for comparative purposes; all figures relate only to holdings of one acre and over situated outside borough boundaries.

	1953	1954
Dairy cows in milk at 31 January	1,962,492	1,999,100
Total dairy stock at 31 January	2,967,661	3,110,400
Total beef stock at 31 January	2,478,302	2,634,400
Total pigs at 31 January	627,830	648,900
Total horses at 31 January	158,065	158,300
	<i>1952–53</i>	<i>1953–54</i>
Sheep shorn	34,794,489	35,541,600
Lambs shorn	7,111,900	8,355,900
Lambs tailed	22,162,270	23,594,800
Grasses and clovers cut for hay Acres	570,659	515,400
Grasses and clovers cut for ensilage Acres	212,911	165,200
Lucerne cut for hay or ensilage Acres	93,570	89,100
Grassland top dressed (year ended 31 January)—	<i>1953</i>	<i>1954</i>
With artificial fertilizers only Acres	4,941,697	5,377,400

	1953	1954
With lime only Acres	626,372	531,400
With both artificial fertilizers and lime Acres	1,597,834	1,546,300
Agricultural tractors at 31 January No.	52,495	55,600
H.P.	1,270,890	1,349,900

Timber Production

Timber Production (pp. 512-514).—Provisional figures issued by the New Zealand Forest Service indicate a continued high level of timber production for the year ended 31 March 1954, the output of rough-sawn timber being given as 572,200,000 board feet, a fall of only 0.8 million board feet below the output of the previous year. The output of the principal species was as follows: rimu and miro, 219,200,000 board feet; matai, 36,500,000 board feet; kahikatea, 16,300,000 board feet; beech, 16,800,000 board feet; totara, 14,800,000 board feet; tawa, 16,400,000 board feet; and radiata pine, 235,200,000 board feet. Indigenous species totalled 326,100,000 board feet, and exotics 246,100,000 board feet.

Factory Production Statistics, 1952-53

The main features of the 1952-53 figures are the declines in the total number of persons engaged and in overtime hours worked compared with 1951-52. A number of groups recorded decreases in employment, the principal being: Footwear and other wearing apparel, etc., furniture and fittings, leather and leather products, and rubber products. Significant increases in employment are noted in only three groups: Wood and cork products, machinery, and transport equipment.

Three of the groups mentioned above showing decreased employment also recorded a fall in "added value" over the previous year: Footwear and other wearing apparel, etc., leather and leather products, and rubber products.

In fifteen of the twenty groups overtime hours showed a decline over the previous year, particularly noticeable in footwear and other wearing apparel, etc., wood and cork products, and rubber products. The only significant increase in overtime work was recorded in transport equipment.

Capital expenditure during 1952-53 was approximately £18 million, compared with £14.8 and £12.4 in 1951-52 and 1950-51 respectively.

One final point of some note is the drop recorded in the manufacturers' surplus—from £33.3 million in 1951-52 to £31.3 million in the latest year, mainly as a result of the fall in production in the groups registering declines in employment and "added value".

This series of factory production statistics compiled by the Census and Statistics Department covers 80 per cent of the Labour force engaged in manufacturing activity. Actually the proportion of factory production covered by the survey would be greater than 80 per cent, in that all establishments of any considerable size are included.

The year covered by these statistics is in general that ending 31 March 1953, although concerns are permitted to furnish returns covering their financial years most closely corresponding to that period. In the case of dairy factories and meat-freecing works the years correspond to the respective seasons ending June and September 1953.

Summary (p. 554).—Following are the principal statistics of factory production for 1952-53, with comparable figures for the two previous years.

General Summary	1950-51	1951-52	1952-53
Number of establishments	8,113	8,547	8,512
Persons engaged	No. 138,455	144,370	143,180
Production costs—			
Salaries, wages	£ 65,005,458	75,038,793	78,490,492
Materials	£ 266,884,566	290,682,891	318,945,336
Other expenses	£ 28,867,078	32,027,622	35,359,704
Totals	£ 360,757,102	397,749,306	432,795,532
Value of output	£ 380,200,428	431,038,354	464,064,555
Value added in manufacture (added value)	£ 113,315,862	140,355,463	145,119,219
Overtime worked by wage-earners	Hrs. 16,005,138	16,549,553	15,489,705
Volume of production index: base 1949-50 (= 1000)	1046	1119	1110
Premises and plant—			
Value at end of year—			
Land and buildings	£ 50,573,475	56,982,657	63,278,850
Plant and machinery	£ 37,043,374	40,797,235	45,828,724
Capital expenditure during year—			
Land and buildings	£ 4,751,816	5,370,345	6,775,499
Plant and machinery	£ 7,624,114	9,426,892	11,301,031
Coal consumption as fuel	Ton 823,776	860,536	855,796

Principal Statistics 1952-53 (p. 572).—The following table gives the number of persons engaged, production costs, value of output, and added value for the year 1952-53, classified according to industry groups.

Industry Groups	Number of Persons Engaged	Production Costs				Value of Output	Added Value
		Salaries and Wages	Materials	Other Expenses	Total		
		£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Food	25,757	16,323	167,942	9,384	193,649	200,396	32,455
Beverages	2,273	1,374	4,210	1,073	6,657	7,702	3,492
Tobacco manufactures	1,323	593	4,199	378	5,170	6,120	1,921
Textiles	7,768	3,783	14,881	2,002	20,666	21,759	6,878
Footwear, other wearing apparel, and made-up textile goods	24,166	9,748	21,101	2,177	33,026	34,770	13,669
Wood and cork products (except furniture)	12,220	7,156	14,424	3,210	24,810	27,783	13,360
Furniture and fittings	4,955	2,575	3,797	557	6,929	7,686	3,889
Paper and paper products	2,771	1,466	6,278	1,020	8,764	10,057	3,780
Printing, publishing, etc.	8,468	4,787	5,641	1,910	12,338	14,691	9,050
Leather and leather products (except footwear and apparel)	1,578	859	2,774	282	3,915	4,186	1,412
Rubber products	2,066	1,521	3,674	954	949	6,435	2,761
Chemicals and chemical products	4,580	2,614	14,317	1,908	18,839	20,902	6,585
Petroleum and coal products	250	155	1,133	115	11,403	1,506	373
Non-metallic mineral products n.e.i.	5,847	3,512	5,000	3,002	15,514	12,930	7,930
Basic metal manufactures	822	520	1,694	304	2,518	2,761	1,067
Metal products (except machinery and transport equipment)	6,191	3,761	7,985	1,246	12,992	14,588	6,603
Machinery (except electrical)	9,325	4,887	11,555	1,575	18,017	19,916	8,360
Electrical machinery and appliances	3,955	2,130	4,637	786	7,553	8,152	3,515
Transport equipment	17,279	9,733	21,983	3,018	34,734	37,938	15,955
Miscellaneous products	2,586	1,194	1,720	438	3,352	3,785	2,065
Totals	143,180	78,490	318,945	35,360	432,796	464,065	145,119

A further table is shown below for 1952-53, giving by industry group the value of premises and plant at the end of the year and capital additions and alterations during the year.

Industry Group	Land and Buildings		Plant and Machinery	
	Capital Expenditure During Year	Value at End of Year*	Capital Expenditure During Year	Value at End of Year*
	£	£	£	£
* Includes estimated value for rented premises and machinery.				

Industry Group	Land and Buildings		Plant and Machinery	
	Capital Expenditure During Year	Value at End of Year*	Capital Expenditure During Year	Value at End of Year*
Food	2,232,144	15,317,913	3,649,539	11,900,601
Beverages	234,188	1,875,220	529,637	1,949,412
Tobacco manufacture	33,999	424,899	72,730	345,803
Textiles	163,807	3,108,091	589,367	2,703,545
Footwear, other wearing apparel, and made-up textile goods	245,189	6,509,961	352,480	2,289,452
Wood and cork products (except furniture)	524,426	4,557,451	1,119,515	5,102,064
Furniture and fittings	127,653	1,920,354	122,394	707,181
Paper and paper products	137,689	1,329,452	214,201	1,349,500
Printing, publishing, etc.	275,273	3,462,582	776,589	3,314,978
Leather and leather products (except footwear and apparel)	21,642	525,587	63,702	303,967
Rubber products	148,367	1,458,579	352,303	1,723,972
Chemicals and chemical products	367,880	2,946,100	503,885	2,297,160
Petroleum and coal products	56,360	183,612	15,001	122,169
Non-metallic mineral products n.e.i.	614,048	3,283,974	1,314,614	4,006,672
Basic metal manufactures	63,541	541,692	37,507	317,884
Metal products (except machinery and transport equipment)	217,294	2,505,362	283,041	1,563,192
Machinery (except electrical)	401,800	2,944,849	433,525	1,787,236
Electrical machinery and appliances	130,155	1,389,557	225,912	632,049
Transport equipment	722,463	8,025,806	531,072	2,787,202
Miscellaneous products	57,581	1,167,809	114,027	624,595
Totals	6,775,499	63,278,850	11,301,031	45,828,724

* Includes estimated value for rented premises and machinery.

Electric Power

Electric-power Statistics (p. 621).—Principal data covering all stations for the year ended 31 March 1953 are summarized below:—

Number of stations	97
Persons engaged	5,197
Salaries and wages paid	£3,213,243
Number of consumers	622,439
Prime movers (total b.h.p.)	1,149,752
Generator capacity (main and standby) (k.W.)	785,782
Revenue—	
Revenue (excluding rates)	£15,765,858
Rates	£647
Total revenue	£15,766,505
Expenditure—	
Operating	£9,176,605
Management and general	£1,655,262
Capital charges	£4,936,823
Total expenditure	£15,768,690
Capital outlay—	
Total expenditure to date	£124,706,812
Expenditure during year	£17,772,187
Units (kWh.)—	
Generated (000)	3,568,749
Generated per head of mean population	1,781
Sold (retail) (000)	2,841,457
Sold retail per head of mean population	1,414
Revenue per unit of retail sales ¹	0.894d.

* Calculated on revenue from retail sales only.

BUILDING ACTIVITY (pp. 601-608)

Building Permits in Urban and Rural Districts Combined.—The following table gives a summary for New Zealand of building permits (including State building operations) for the years ended 31 March 1953 and 1954.

—	1952-53			1953-54		
	New Dwellings: Number	New Dwellings: Value	Total, All Buildings: Value	New Dwellings: Number	New Dwellings: Value	Total, All Buildings: Value
		£	£		£	£
Urban districts	11,700	28,045,241	47,179,870	12,596	31,524,239	53,972,845
Rural districts	4,517	9,232,993	13,948,124	4,861	10,212,042	15,527,020
Totals	16,217	37,278,234	61,127,994	17,457	41,736,281	69,499,865

Building Permits Issued: Urban Districts.—Urban districts include all cities, boroughs, town districts, and the road district of Panmure Township, together with the counties of Waiemata, Manukau, Makara, Hutt, Paparua, Waimairi, Heathcote, Peninsula, and Taieri.

Year Ended 31 March	New Dwellings Number	Value	Value of Other Buildings and Alterations and Additions	Total Value of All Buildings
		£	£	£
1952	12,443	27,762,908	18,516,483	46,279,391
1953	11,700	28,045,241	19,134,629	47,179,870
1954	12,596	31,524,239	22,448,606	53,972,845

Building Permits Issued: Rural Districts.—Rural districts include the remaining counties of New Zealand and the two Road Boards of Waheke Island.

Year Ended 31 March	New Dwellings Number	Value	Value of Other Buildings and Alterations and Additions	Total Value of All Buildings
		£	£	£
1952	4,668	8,694,155	4,269,713	12,963,868
1953	4,517	9,232,993	4,715,131	13,948,124
1954	4,861	10,212,042	5,314,978	15,527,020

Dwelling Units Completed.—Local authorities supplying building permit figures were also requested to supply the number of dwelling units which were completed during the year. Estimates have been made in some cases where it was not possible to supply actual figures. While absolute accuracy for these statistics cannot be claimed, it is believed they will give reasonably approximate results, and also reasonably accurate comparisons of year to year changes.

The total figures on this basis for new dwelling units completed during 1953–54 were 16,600, compared with 16,100 in 1952–53 and 16,300 in 1951–52. Those completed in urban districts numbered 12,200 in 1953–54, and in the previous years quoted 11,900 in each year.

RECALCULATION OF GROSS FARMING INCOME, 1938–39 to 1952–53

All aggregative series compiled by the Census and Statistics Department are subjected to periodical review to ensure that they still serve a useful purpose in measuring changes in some part of the economy, and that they continue to measure those changes as accurately as possible. A series may be discontinued or superseded if its original purpose seems irrelevant to present conditions, or if the necessary information is no longer available. Changes in method may be adopted if there are changes in sources of information, or if new sources of greater reliability are discovered, or if inconsistencies in the old method are detected.

The underlying concept of Gross Farming Income was first examined, and it was decided that (within the assumptions and limitations set out on pages 429–431 of the present Year-Book) this series serves a clear and useful purpose.

A detailed examination of methods revealed some inconsistencies; it was also sometimes possible to find ways of simplifying calculations without reducing accuracy. Two changes in basic assumptions have been made: first, all prices have been taken "sacks in", and the value of wool bales is now also included; second, in the case of "grasses and clovers cut for hay" and "grain crops cut for chaff", production, with the exception of 20 per cent of oats and of grasses and clovers cut for chaff or hay, is now excluded from Gross Farming Income.

These changes have been incorporated in the recalculation of the value of Gross Farming Income, 1938–39 to 1952–53, the results of which are presented below. The total effect of the changes in method is not great, and it by no means invalidates comparison with figures given elsewhere in this Year-Book for earlier years. In addition to the changes already referred to, some further simplifications of method for 1951–52 and 1952–53 were introduced, but with little effect on the aggregates.

VALUE OF GROSS FARMING INCOME

Production Year	Agricultural Produce			Pastoral Produce			Produce of Dairying, Poultry, and Bees			All Farm Produce		
	Value £ (m.)	Index of Value (Base: 1938–39 = 100)	Per Cent of Total	Value £ (m.)	Index of Value (Base: 1938–39 = 100)	Per Cent of Total	Value £ (m.)	Index of Value (Base: 1938–39 = 100)	Per Cent of Total	Value £ (m.)	Index of Value (Base: 1938–39 = 100)	Per Cent of Total
1938–39	8.3	100	12	31.4	100	44	31.0	100	44	70.6	100	100
1939–40	9.6	116	13	32.2	103	42	34.0	110	45	75.8	107	100
1940–41	10.3	124	12	38.6	123	45	36.8	119	43	85.7	121	100
1941–42	11.4	137	13	38.1	121	45	35.3	114	42	84.8	120	100
1942–43	13.3	160	15	38.3	122	45	34.2	110	40	85.8	122	100
1943–44	14.4	173	17	39.7	126	45	33.6	108	38	87.7	124	100
1944–45	16.4	198	16	47.0	150	45	40.3	130	39	103.7	147	100
1945–46	15.9	192	16	44.5	142	46	36.7	118	38	97.1	138	100
1946–47	15.9	192	14	51.6	164	46	44.6	144	40	112.1	159	100
1947–48	17.4	210	13	67.3	214	49	51.9	167	38	136.5	193	100
1948–49	18.6	236	13	69.8	222	47	58.2	188	40	147.5	209	100
1949–50	20.8	251	11	100.4	320	54	63.9	206	35	185.1	262	100
1950–51	20.8	251	7	199.2	634	68	71.5	231	25	291.6	413	100
1951–52	23.5	283	11	113.8	362	52	82.6	266	37	219.9	311	100
1952–53	24.4*	294*	9*	144.5*	460*	55*	93.3*	301*	36*	262.2*	371*	100*

* Provisional.

EXTERNAL TRADE

Statistics of external trade in the calendar year 1953, in continuation of the statistics included in pages 261–315 of this Year-Book, are given below.

Total Commodity Trade.—Following are statistics of exports and imports in 1951, 1952, and 1953.

Calendar Year	Exports		Imports (c.d.v.)	Excess of Exports Over Imports
	New Zealand Produce	Total Exports		
	£(000)	£(000)	£(000)	£(000)
1951	246,394	248,127	187,758	60,369
1952	238,418	240,561	229,447*	11,114
1953	233,210	235,596	163,503*	72,093

* The corresponding c.f. values were £276,215,000 in 1952 and £192,143,000 in 1953.

INDEX NUMBERS OF VALUE AND VOLUME OF TRADE

Calendar Year	Exports		Imports	
	Value Index	Volume Index	Value Index	Volume Index
1936–38 (average)	100	100	100	100
1950	303	122	304	141
1951	409	109	398	157
1952	397	143	486	176
1953	389	129	346	133

The total trade per head of mean population in 1953 was £195 (exports £115 and imports £80)

Exports.—New Zealand's export commodity trade in 1953 was of a value a little below that of 1952, a decrease of 2 per cent in value being recorded between the two years. An indication of the movement in the value of exports in the main groups of commodities is afforded by the following table.

VALUE OF EXPORTS

Calendar Year	Butter	Cheese	Frozen Meat	Wool	Hides, Pelts, and Skins
	£(000)	£(000)	£(000)	£(000)	£(000)
1951	41,362	16,650	25,394	128,176	12,862
1952	55,929	15,769	40,475	81,998	9,949
1953	51,385	18,373	39,881	84,370	10,692

Apart from the question of values, a special interest attaches to progress in the volume of our export trade in major export commodities. In the following table the fluctuations in the quantities of exports of butter, cheese, meat, and wool since 1943 are shown.

Calendar Year	Butter	Cheese	Frozen Meat	Wool
	Tons (000)	Tons (000)	Tons (000)	Tons (000)
1943	99.3	100.5	230.6	92.3
1944	115.3	77.7	207.8	84.2

* Record.

NOTE.—The figures do not include wartime supplies to Allied Forces under mutual-aid arrangements, a factor of particular importance in 1943 and 1944.

Calendar Year	Butter	Cheese	Frozen Meat	Wool
1945	103.5	87.4	282.7	74.2
1946	101.8	75.7	337.7	163.1
1947	127.6	87.0	347.8	167.5
1948	135.6	75.6	343.5	188.0
1949	147.6	93.9	344.1	191.8
1950	137.5	99.9	338.1	175.9
1951	147.1	106.6	274.8	141.5
1952	183.5*	91.3	385.5*	195.6*
1953	158.9	101.4	326.7	195.3

* Record.

NOTE.—The figures do not include wartime supplies to Allied Forces under mutual-aid arrangements, a factor of particular importance in 1943 and 1944.

Direction of Export Trade.—The table below shows the destinations of New Zealand exports in 1953.

Country	Total Exports
United Kingdom	£(000) 157,894
Republic of India	960
Pakistan	46
Federation of Malaya	974
Hong Kong	104
British West Africa	140
Rhodesia, Northern	224
Rhodesia, Southern	227
Union of South Africa	597
Bermuda	84
British Guiana	107
British West Indies	1,425
Canada	2,934
Australia	4,655
Fiji	787
Gilbert and Ellice Islands	66
Tonga	216
Western Samoa	450
Other Commonwealth countries	203
Totals, Commonwealth countries	172,193
Belgium	3,465
Czechoslovakia	312
Denmark	420
France	15,670
West German Federal Republic	6,052
Greece	198
Republic of Ireland	978
Italy	4,946
Netherlands	2,412
Poland	3,626
Sweden	381
Spain	233
Switzerland	140
Philippine Islands	254
Japan	3,122
Belgian Congo	122
Egypt	149
Mexico	185
Netherlands Antilles	244
Panama Republic	295
United States of America	18,372
Society Islands	158
Turkula	135
Other countries	829
Totals, all other countries	62,698
Ships' stores	706
Totals, all countries	235,596

Exports to Commonwealth countries in 1953 accounted for 73 per cent of the total exports, excluding ships' stores.

Imports.—The table following classifies imports by broad divisions.

IMPORTS VALUED AT CURRENT DOMESTIC VALUE IN COUNTRY OF EXPORT

Calendar Year	Food, Drink, and Tobacco	Apparel, Textiles, Fibres, and Yarns	Oils, Fats, and Waxes	Metals, Metal Manufactures, and Machines	Paper and Stationery	Drugs, Chemicals, and Manures	Vehicles (Including Parts and Tires)	Total*
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
1951	21,775	44,242	11,665	49,754	10,078	7,455	18,550	187,758
1952	24,114	35,854	16,040	74,937	14,741	9,901	27,589	229,447
1953	20,028	24,108	13,633	53,717	8,189	7,163	15,245	163,503

* Including classes not listed.

Direction of Import Trade.—The next table shows the source (origin) of New Zealand's imports in 1953.

Country	Total Imports*
	£(000)
United Kingdom	92,334

* Provisional figures.

Country	Total Imports*
Bahrain Island	2,881
British Borneo	511
Ceylon	1,938
Hong Kong	217
India	1,779
Pakistan	41
Malaya and Singapore	3,054
British West Africa	450
Kenya and Uganda	89
Tanganyika	45
Union of South Africa	1,090
British West Indies	442
Canada	2,289
Australia	23,659
Fiji	1,376
Gilbert and Ellice Islands	67
Nauro Island	413
New Zealand (re-imports)	45
Western Samoa	246
Tonga	43
Other Commonwealth countries	43
Totals, Commonwealth countries	133,052
Austria	585
Belgium	1,476
Czechoslovakia	171
Denmark	289
Finland	73
France	1,967
West German Federal Republic	1,967
Germany—Eastern Zone	262
Italy	877
Netherlands	1,143
Norway	420
Portugal	116
Spain	71
Sweden	1,975
Switzerland	1,272
Saudi Arabia	602
China	201
Indonesia	2,741
Formosa	260
Iraq	76
Japan	388
Siam	31
Tunisia	121
Brazil	66
Chile	65
Netherlands Antilles	141
United States of America	12,120
Venezuela	636
Other countries	239
Totals, all other countries	30,451
Totals, all countries	163,503
* Provisional figures.	

Imports from Commonwealth countries in 1953 comprised 81 per cent of the total.

DISTRIBUTION STATISTICS: MARCH 1954 QUARTERLY SURVEY OF RETAIL TRADING (pp. 639-646)

The Census and Statistics Department's first quarterly sample survey of retail trade shows that retail stocks have been reduced since the end of 1953, though they are still above their 1952 value. On a quantity basis the reduction in stocks over the past year is quite substantial.

Sales during the first quarter of 1954 were at about a quarter of the value of sales in the year 1953. On a quantity basis the indications are that sales are somewhat less than a quarter of sales in the year 1953. However, there are considerable seasonal movements in retail sales, and until further quarterly surveys have been completed it will be difficult to draw firm conclusions from quarterly changes in turnover.

Following the Census of Distribution in 1953 a continuing quarterly retail sample inquiry has been inaugurated. The results of the census formed the framework from which a random sample of firms, stratified by broad geographical divisions and size of turnover, was drawn.

The results of the first of the quarterly inquiries are now available and relate to retail trading during the quarter ended 31 March 1954.

Hotel, motor vehicle and motor accessory trading are excluded from the sample inquiry, and also from the census figures quoted by way of comparison.

The actual sample inquiry is confined to 9 per cent of establishments, but these, on the basis of the census, represent approximately 29 per cent of total turnover. To provide the estimates presented in the following tables the figures have been expanded by suitable techniques to represent the activity of all retail stores.

The figures as published are of a provisional nature and final figures for the March quarter will be given later when provisional figures for the June quarter are released.

Turnover by Store-type.—The estimated turnover figures for the March quarter of 1954 represent in the case of most types of stores approximately one-quarter of the totals for the complete census year 1952-53. The turnover in furniture stores appears to have been at a lower level than that experienced in other types of stores, but grocers' stores on the other hand record increased turnovers.

The table which follows gives figures for both the census year 1952-53 and the March quarter of 1954.

TOTAL SALES OR TURNOVER £(000)

Store Type	North Island				South Island				Totals, New Zealand
	Auckland Urban Area	Wellington and Hunt Urban Areas	Remainder of North Island	Totals, North Island	Christchurch Urban Area	Dunedin Urban Area	Remainder of South Island	Totals, South Island	
* The sample response in this case was inadequate, and the figures, while based on the returns received, should be accepted with reservation.									

Store Type	North Island				South Island				Totals, New Zealand
	Auckland Urban Area	Wellington and Hunt Urban Areas	Remainder of North Island	Totals, North Island	Christchurch Urban Area	Dunedin Urban Area	Remainder of South Island	Totals, South Island	
<i>Year Ended 31 March 1953</i>									
Butcher, etc.	3,685	2,556	7,845	14,086	2,012	1,328	3,300	6,640	20,726
Grocer	7,474	6,126	15,872	29,472	4,628	2,314	7,517	14,459	43,931
Other food and drink	8,888	4,568	11,958	25,414	3,243	2,001	4,564	9,808	35,222
Boot and shoe	1,361	995	2,428	4,784	711	430	1,021	2,162	6,946
Other apparel	9,539	5,637	16,776	31,952	4,408	2,402	6,965	13,775	45,727
Furniture and soft furnishings	4,323	2,279	4,929	11,531	1,537	960	2,084	4,581	16,112
Household appliances, radios, etc.	1,441	1,090	2,865	5,396	695	511	1,090	2,296	7,692
Hardware, builders', etc.	2,363	3,565	5,546	11,474	839	447	1,796	3,082	14,556
Chemist	1,649	917	2,565	5,131	695	439	1,012	2,146	7,277
General, departmental, and variety	11,964	4,520	30,085	46,569	6,862	2,915	12,379	22,156	68,725
Other	11,368	8,573	20,685	40,626	9,949	3,073	8,164	21,186	61,812
Totals	64,055	40,826	121,554	226,435	35,579	16,820	49,892	102,291	328,726
<i>Quarter Ended 31 March 1954</i>									
Butcher, etc.	885	609	2,048	3,542	487	342*	909	1,738	5,280
Grocer	1,903	1,516	4,232	7,651	1,206	599	2,022	3,827	11,478
Other food and drink	2,278	1,291*	3,130*	6,699	850*	537	1,234	2,621	9,320
Boot and shoe	334	243	571	1,148	141	111	262	514	1,662
Other apparel	2,312	1,384	3,978	7,674	1,016	551	1,634	3,201	10,875
Furniture and soft furnishings	984	470	1,150	2,604	343	194	485	1,022	3,626
Household appliances, radios, etc.	359	314*	751	1,424	164*	120*	264	548	1,972
Hardware, builders', etc.	612*	802	1,343	2,757	193	104	418	715	3,472
Chemist	422	228	646	1,296	174	108	255	537	1,833
General, departmental, and variety	2,275	1,058	7,682	11,015	1,655	722	3,087	5,464	16,479
Other	2,690	2,083	5,452	10,225	2,828	746	2,001	5,575	15,800
Totals	15,054	9,998	30,983	56,035	9,057	4,134	12,571	25,762	81,797

* The sample response in this case was inadequate, and the figures, while based on the returns received, should be accepted with reservation.

The following table covering retail trading throughout the whole of New Zealand reflects to a certain extent both the seasonal pattern of trading (e.g., milk, ice-cream, confectionery, soft drinks, etc.) and changes due to other circumstances.

COMMODITY SALES OR TURNOVER OF RETAIL STORES

Commodity Group	Year Ended 31 March 1953	Quarter Ended 31 March 1954
Groceries and small goods (including butter, bacon, etc.)	£(000) 59,704	£(000) 15,867
Butchers' meat, fish, fruit, and vegetables	31,008	7,895
Other foods (bread, cakes, pastry, etc.)	12,061	2,994
Milk, ice-cream, confectionery, soft drinks, etc.	10,151	3,042
Tobacco, cigarettes, and tobacconists' sundries	8,990	2,096
Chemists' goods, toiletries, cosmetics (including dispensing)	8,765	2,177
Clothing, drapery, dress piece goods*	57,348	13,501
Footwear	8,862	2,099
Furniture, bedding, floor coverings, soft furnishings, and household textiles	21,765	4,590
Musical instruments, including radios	4,681	1,062
Household appliances and electrical goods	9,501	2,525
Hardware—		
Domestic hardware, china, and glassware	10,557	2,447
Builders' hardware and materials (excluding timber, bricks, and roofing tiles)	13,105	3,254
Books, stationery, etc.	9,171	2,387

* Information obtained in the quarterly survey indicates that "Clothing, drapery, dress piece goods" are divided in the following proportions: Men's and boys' wear, 28 per cent; women's, girls', and infants' wear, 59 per cent; household drapery, 13 per cent.

Stocks.—The Census of Distribution, together with the recent sample inquiry, provides stock figures as at 31 March of the last three years, and these are presented in the form of actual values and index numbers of actual value in the table which follows. The 1953 figures have been used as the base for the index numbers in order to highlight the stock changes between 1953 and 1954.

The figures show for 1954 a fall in stocks as compared with 1953, but an overall increase in value of stocks of 6 per cent as compared with 1952. The increased unit value of retail goods over this same period must be considered in comparing figures of values. An adjustment taking into account such retail price changes would possibly show a reduction in the physical volume of stocks as at March 1954 as compared with both 1953 and 1952.

Hardware stores recorded a substantial increase in the value of stocks held in 1953, but the 1954 figure was lower. The retail stores showing overall increases in the value of stocks in 1954 as compared with 1953 were mainly "Boot and shoe", "Grocer", "Other apparel", and "Chemist". Lower stocks were held in particular by "Household appliances, radios, etc.", and "General, departmental, and variety".

On a location basis Wellington is the only main centre to record an increase in the value of retail stocks over the last year. Christchurch showed the largest decrease.

VALUE OF STOCKS HELD BY RETAIL STORES AT END OF MARCH

—	Actual Value of Stocks			Index Numbers of Value of Stocks		
	1952	1953	1954	1952	1953	1954
Store type—	£(000)			Base 1953 (= 1000)		
Butcher, etc.	378	441	342	857	1000	776
Grocer	4,520	4,585	4,721	986	1000	1030
Other food and drink	1,617	1,881	1,753	860	1000	932
Boot and shoe	2,321	2,468	2,665	940	1000	1080
Other apparel	14,640	15,119	15,563	968	1000	1029
Furniture and soft furnishings	4,328	4,391	4,400	986	1000	1002
Household appliances, radios, etc.	1,278	1,414	1,278	904	1000	904
Hardware, builders', etc.	2,778	3,243	3,457	742	1000	924
Chemist	1,403	1,541	1,568	910	1000	1018
General, departmental, and variety	12,851	14,256	12,986	901	1000	911
Other	11,974	14,527	12,837	824	1000	884

	Actual Value of Stocks			Index Numbers of Value of Stocks		
	1952	1953	1954	1952		1953 1954
Locality—						
Auckland urban area	10,427	11,197	10,567	931	1000	944
Wellington and Hutt urban areas	6,937	7,756	8,667	894	1000	1117
Remainder North Island	21,723	24,156	23,161	899	1000	959
Christchurch urban area	6,567	7,592	6,329	843	1000	812
Dunedin urban area	3,124	3,561	3,220	877	1000	904
Remainder South Island	9,310	10,104	9,626	921	1000	953
Totals, all retail stores	58,088	64,366	61,570	902	1000	957

FINANCE

Banking and Currency

Reserve Bank (p. 763).—Data showing the liabilities and assets of the Reserve Bank of New Zealand at the last balance day in May 1954 are shown below, together with the corresponding figures for the last balance day in March 1954.

	As at Last Balance Day in	
	March 1954	May 1954
Liabilities—	£	£
Total liabilities (including other)	183,860,452	176,282,890
Bank notes	68,003,566	68,143,405
Demand liabilities—		
State	32,592,838	4,945,455
Banks	68,325,691	89,175,098
Other	5,261,207	4,018,151
Assets—		
Total assets (including other)	183,860,452	176,282,890
Investments—		
Sterling*	23,715,975	23,715,975
Other	10,186,011	208,266
Sterling exchange reserve*	78,210,556	89,512,207
Advances—		
To the State or State undertaking	52,733,492	40,986,185
Other	10,635,467	13,936,943
* Expressed in New Zealand currency.		

Trading Banks (pp. 764–771).—The principal statistics of trading banks for the months of March and May are given below. Debits and clearings cover the monthly periods ended on the last Wednesday of the respective months, while the remaining figures are as at those dates.

	As at Last Balance Day in	
	March 1954	May 1954
Bank debits—	£	£
Government	16,752,943	9,324,236
Other	114,816,862	95,556,801
Bank clearings	63,789,624	55,527,145
Advances, including notes and bills discounted	149,537,443	148,081,384
Unexercised overdrafts	103,506,801	111,854,060
Deposits—		
Total	282,307,938	295,316,501
Government	2,948,606	3,067,256
Not bearing interest	238,597,622	251,235,723
Bearing interest	40,761,710	41,013,522
Reserve Bank notes—		
Notes held by trading banks	10,655,293	10,948,318
Net note circulation	57,348,273	57,195,087
Ratio of advances to deposits	52.97	50.14

An analysis of advances of the trading banks at quarterly intervals is published by the Reserve Bank of New Zealand, and the classification as at the last Wednesday in March of 1953 and 1954 is contained in the following table. Figures for earlier years will be found on page 768.

Advances to	As at Last Wednesday in March	
	1953	1954
	£(000)	£(000)
Farmers	20,621	24,609
Industries allied to primary production	20,316	20,840
Other manufacturing and productive industries	26,599	22,924
Merchants—		
Wholesalers	16,846	14,848
Retailers	13,961	14,851
Transport	3,700	3,924
Other	36,358	44,409
Total advances	138,401	146,405

Overseas Assets of Banks (p. 774).—In the following table the revised series of overseas assets of banks (on account of New Zealand business only) are shown.

	Overseas Assets at End of	
	March 1953	March 1954
	£(000)	£(000)
Trading banks' overseas assets—		
In London	26,495	27,553
Elsewhere	4,074	4,597
Reserve Bank's overseas assets—		
Sterling exchange	53,283	78,211

	Overseas Assets at End of	
	March 1953	March 1954
Other overseas assets	22,961	24,741
Total gross overseas assets	106,813	135,102
Overseas liabilities of trading banks	4,827	6,041
Overseas liabilities of Reserve Bank	52	51
Net overseas assets	101,934	129,010

Savings Banks (pp. 777–782).—A summary of statistics of savings banks at 31 March 1954 is given below.

	Post Office Savings Bank	Trustee Savings Banks	National Savings Accounts
Number of depositors	1,520,988	376,427	
	£	£	£
Total amount of deposits during year	109,340,239	24,320,574	10,328,837
Total amount of withdrawals during year	99,134,784	22,958,139	9,629,595
Excess of deposits over withdrawals	10,205,455	1,362,435	699,242
Interest credited to depositors	4,442,620	915,421	1,839,437
Total amount to credit of depositors at end of March 1954	205,921,812	41,131,521	65,469,117
* On deposits held during year ended 30 June 1953.			

Post Office Savings-bank Accounts Classified by Amount Groups.—The following is a classification of the balances in Post Office Savings-bank Accounts at 31 March 1940, 1953, and 1954, shown by amount groups and percentage of accounts within each group.

	At 31 March 1940/Percentage of Total	At 31 March 1953/Percentage of Total	At 31 March 1954/Percentage of Total			
£						
Under 1	769,312	80.09	352,323	23.71	354,389	23.30
1 and under 10			357,796	24.08	361,868	24.11
10 and under 50			281,505	18.95	286,944	18.87
50 and under 100	60,822	6.33	120,728	8.13	122,106	8.03
100 and under 200	50,286	5.24	119,387	8.03	124,204	8.17
200 and under 300	25,948	2.70	66,367	4.47	70,782	4.65
300 and under 400	15,552	1.62	43,889	2.95	46,286	3.04
400 and under 500	10,185	1.06	33,651	2.26	35,840	2.36
500 and under 600	8,163	0.85	26,583	1.79	28,151	1.85
600 and under 700	4,495	0.47	15,379	1.04	15,801	1.04
700 and under 800	3,214	0.33	11,488	0.77	12,241	0.80
800 and under 900	2,337	0.24	9,079	0.61	9,329	0.61
900 and under 1,000	1,788	0.19	7,250	0.49	7,826	0.51
1,000 and under 1,500	6,431	0.67	21,686	1.46	23,572	1.55
1,500 and under 2,000			10,004	0.67	10,702	0.70
2,000 and under 3,000	1,973	0.21	7,391	0.50	8,604	0.57
3,000 and under 4,000	46		834	0.60	1,433	0.09
4,000 and under 5,000	7		331	0.02	575	0.04
5,000 and over	6		181	0.01	335	0.02
Total number of Accounts	960,565	100.00	1,485,852	100.00	1,520,988	100.00

It will be noted that the actual number of accounts with balances of under £50 have increased from 769,312 in March 1940 to 1,003,201 in March 1954, but expressed as a percentage of the total accounts within this group showed a decline from 80.1 per cent in 1940 to 66.3 per cent in 1954. For the £50 and under £200 groups there were both absolute and relative increases over the period—i.e., from 111,108 or 11.6 per cent to 246,310 or 16.2 per cent. In the next groups £200 and under £500, the increases were more marked still, the numbers being almost trebled, and the percentage nearly twice as high, the figures being 51,685 or 5.4 per cent in the earlier year and 152,908 or 10.1 per cent for the later year.

The groups comprising balances within the range £501 to under £2,000 however exhibited the greatest percentage increase, from 3.0 to 7.1 per cent of the total, the numbers also showing a substantial increase from 28,401 to 107,622 during the period. Accounts consisting of £2,000 and over increased from 2,032 to 10,947, although prior to September 1952 interest was not paid on sums between £2,000 and £5,000.

Overseas Receipts and Payments.—The following statement gives statistics of exchange-control transactions for the years ended 31 March 1953 and 1954. Comparable items for the calendar years 1952 and 1953 are, however, given on pages 775–776. All figures quoted are taken from Reserve Bank sources.

	Year Ended 31 March 1953		Year Ended 31 March 1954	
	Receipts	Payments	Receipts	Payments
Exports—	£NZ(000)	£NZ(000)	£NZ(000)	£NZ(000)
Butter	48,424		50,412	
Cheese	17,406		20,475	
Meat	48,272		48,924	
Wool	73,914		87,206	
Total (including other)	227,078		239,872	
Imports—				
Licensed		48,007		38,404
Decontrolled		119,804		133,915
Government		29,153		25,141
Total (including other)		201,088		200,449
Transport: Freights, fares, ships' charters	1,851	3,000	1,520	1,216
Travel: Private and business (exclusive of fares)	1,686	4,862	1,605	4,783
Insurance—				
Insurance	530	793	713	1,170
Reinsurance		614		598
Totals, insurance	530	1,407	713	1,768
International investment income—				
Interest, dividends, and other private investment income	6,393	6,132	6,637	5,167
Interest on Government and local authority loans		2,719		2,866
Totals, international investment income	6,393	8,851	6,637	8,033
Government transactions—				
Current expenditure by New Zealand Government overseas		7,845		9,890
Current receipts by New Zealand Government and expenditure by other Governments in New Zealand	1,543		2,124	
Totals, Government transactions	1,543	7,845	2,124	9,890
Miscellaneous current transactions—				
Commissions, royalties, rebates, etc.	845	1,719	536	1,340

Estimated Receipts, 1954-55	£(m)	Estimated Payments, 1954-55	£(m)
Total	174,800	Total	160,345
<i>Social Security Fund</i>			
Social security charge	53,800	Administration expenses	1,074
Miscellaneous	0,100	Emergency benefits and Christmas bonus	0,610
			1,684
		Monetary benefits—	
		Age	22,500
		Invalids	1,625
		Widows	2,575
		Sickness	1,200
		Family	18,400
		Universal superannuation	6,900
		Other	0,178
		Medical, hospital, etc., benefits	12,620
Total	53,900	Total	67,682
		Over-all surplus	0,276
Grand total	£304,860	Grand total	£304,860

* Includes operating expenses.

Consolidated Fund (pp. 699–701).—The following table contains a summary of the receipts and payments of the Consolidated Fund for the financial years ended 31 March 1953 and 1954.

—	1952-53	1953-54
Receipts	£	£
Taxation	154,262,345	156,195,535
Interest on capital liability—		
Post and Telegraph	1,016,266	1,183,785
Electric supply	2,350,453	2,811,803
Housing and Housing Construction	1,051,927	1,162,394
Land settlement	1,535,737	1,578,210
Other accounts	193,053	140,086
Interest on other public moneys	746,157	869,604
Profits on trading undertakings	1,480,946	1,780,287
Departmental receipts	15,185,214	16,597,591
Totals, receipts	177,822,098	182,319,295
<i>Payments</i>		
Permanent appropriations—		
Civil list	159,125	143,739
Debt services—		
Interest	17,320,982	18,128,182
Amortization	6,573,767	6,883,897
Administration and management	264,407	1,004,709
Superannuation (subsidy and contribution)	2,998,000	3,068,000
Miscellaneous	514,917	372,888
Totals, permanent appropriations	27,831,198	29,601,415
Annual appropriations—		
Legislative	198,257	213,259
Prime Minister's Office	18,336	18,564
External Affairs	1,800,164	1,811,860
Finance—		
Treasury	259,873	289,651
Stabilization	14,719,507	14,451,664
Customs	400,008	412,579
Inland Revenue	1,106,136	1,222,349
Audit	171,987	182,472
Totals, finance	16,657,511	16,558,715
General administration—		
Public Service Commission	95,506	95,904
Internal Affairs	2,621,847	3,788,718
Island Territories	825,799	1,193,579
Printing and Stationery	1,789,180	772,365
Marine	465,401	516,491
Labour and Employment	3,101,213	2,168,884
Maori Affairs	838,867	805,108
Valuation	411,563	399,937
Census and Statistics	145,465	145,671
Rehabilitation	1,498,541	1,235,726
Totals, general administration	11,793,382	11,122,383
Law and order—		
Justice	1,130,093	1,225,185
Crown Law	19,787	19,851
Police	1,520,914	1,758,820
Totals, law and order	2,670,794	3,003,856
Defence—		
Navy	5,666,108	5,254,400
Army	11,005,104	11,840,860
Air	7,545,940	9,196,045
Defence construction and maintenance	2,263,954	2,721,184
Totals, defence	26,481,106	29,012,489
Maintenance—		
Maintenance of public works and services	9,425,527	9,626,550
Highways maintenance	5,178,687	5,507,898

—	1952-53	1953-54
Totals, maintenance	14,604,214	15,134,448
Development of primary and secondary industries—		
Lands and Survey	1,729,500	1,739,378
Forest Service	1,856,716	1,790,653
Agriculture	2,889,264	2,980,973
Milk Marketing	630,947	652,334
Industries and Commerce	388,923	378,070
Tourist and Publicity	1,253,834	1,337,037
Scientific and Industrial Research	1,009,572	1,089,808
Mines	146,423	122,110
Transport	714,647	789,985
Civil Aviation and Meteorological Services	2,263,271	2,323,174
Totals, development of primary and secondary industries	12,883,097	13,203,522
Social services—		
Health	4,806,181	5,010,226
Subsidies to Hospital Boards	9,618,374	10,270,079
Education	18,123,697	20,782,208
War and other pensions	6,639,726	7,241,673
Payment to Social Security Fund	14,000,000	14,000,000
Totals, social services	53,187,978	57,304,186
Totals, annual appropriations	140,294,839	147,383,282
Unauthorized expenditure	389,018	31,618
Transfer to Public Works Account	6,000,000	
Transfer to Defence Fund		3,500,000
Totals, payments	174,515,055	180,516,315
Surplus from current year's operations	3,307,043	1,802,980
Balance in Fund at end of year	10,447,745	8,943,882

The surplus for the year 1951-52 of £12,635,721 was expended during the 1952-53 year as follows: transfer to National Development Loans Account, £4,000,000; transfer to Public Works Account, £8,635,721. The corresponding surplus for the year 1952-53 of £3,307,043 was expended during the year 1953-54 by transfer to the Public Works Account.

Taxation (pp. 708–709).—Particulars of revenue from taxation for the financial years 1951-52, 1952-53, and 1953-54 are contained in the following table.

Item of Revenue	1951-52	1952-53	1953-54
	£	£	£
Consolidated Fund—			
Customs	32,599,596	27,273,206	26,343,303
Beer duty	5,273,804	5,466,701	5,833,871
Sales tax	21,811,375	21,991,703	21,133,740
Film-hire tax	112,541	135,348	131,190
Highways	4,575,347	4,908,492	5,328,922
Stamp duties	5,207,577	5,702,526	6,327,042
Death (including gift) duties	8,117,259	8,767,857	8,682,576
Land tax	1,137,937	1,315,136	1,615,572
Income tax	78,101,583	78,701,376	80,799,719
Totals	156,936,939	154,262,345	156,195,535*
Social security taxation—			
Social security charge	43,612,868	45,507,938	49,717,376
Grand totals	200,549,807	199,770,283	205,912,911*

* These totals do not include an amount of £889,406 (after rebate), being part of Customs duties at the rate of 3d. per gallon on motor spirits from 1 November 1953 to 31 March 1954, and paid into the Motor Taxation Account of the Deposits Account. This amount will appear in the 1954-55 figures of taxation, as it was transferred later to the National Roads Fund.

A summary showing the amounts received from direct taxes on income and from all sources during the last eleven years is now given.

Year	Direct Taxes on Income (Including War and Social Security Charges on Income)				Total Taxation			
	Amount	Per Head of Mean Population	Percentage of Total Taxation		Amount	Per Head of Mean Population		
	£	£	£	%	£	£	£	%
1943-44	63,311,965	38	13	3	62.8	100,839,484	61	11
1944-45	68,438,477	41	2	3	63.0	108,681,814	65	5
1945-46	71,582,870	41	16	11	62.5	114,954,873	67	4
1946-47	63,873,162	36	1	7	56.5	113,119,046	63	18
1947-48	63,581,244	35	3	6	52.0	122,275,911	67	12
1948-49	78,386,057	42	10	3	60.1	130,440,249	70	14
1949-50	80,186,020	42	12	5	59.2	135,556,319	72	1
1950-51	95,208,075	49	12	10	60.3	157,946,975	82	7
1951-52	121,714,371	62	2	9	60.7	200,549,807	102	7
1952-53	124,209,314	61	16	3	62.2	199,770,283	99	8
1953-54	130,517,095	63	6	4	63.4	205,912,911	99	17

State Indebtedness (p. 728).—The public debt as at 31 March 1954 amounted to £706,461,822, an increase of £36,682,379 as compared with a year earlier. Of the 1954 debt figure, £89,880,637 was held in the United Kingdom, an increase of £9,999,544.

SOCIAL SECURITY AND WAR PENSIONS (pp. 174–205)

Revenue of the Social Security Fund for the year ended 31 March 1954, together with the 1952-53 figures in parentheses, was as follows: charge on salaries and wages, £28,714,790 (£26,502,922); charge on company and other income, £21,002,886 (£18,857,016); grant from Consolidated Fund, £14,000,000 (£14,000,000); interest on investments, £15,639 (£19,909); miscellaneous receipts, £105,956 (£100,389); total receipts, £63,838,971 (£59,628,236).

Payments from the Fund in 1953-54, with 1952-53 payments in parentheses, were: Monetary benefits, £48,626,205 (£46,306,272); emergency benefits and special assistance, £468,887 (£361,912); medical, etc., benefits, £10,607,046 (£10,428,597); Christmas bonus, £1,644,925 (£767,115); administration expenses, £1,017,140 (£957,558); other payments, £6,111 (£4,990). Total payments from the Fund were therefore £62,370,314 (£58,826,444). The balance in the Fund at the end of March 1954 was £12,428,167.

Particulars of the various social security benefits (monetary and health) and war pensions in force at the end of March 1954, together with total payments during the financial year 1953-54, are shown in the following table.

Class of Benefit or Pension	As at 31 March 1954		Payments During Year Ended 31 March 1954
	Number in Force	Annual Value	
Social security benefits—			

Class of Benefit or Pension	As at 31 March 1954		Payments During Year Ended 31 March 1954
	Number in Force	Annual Value	
	£	£	£
Monetary—			
Superannuation	75,227	6,394,295	6,029,183
Age	122,205	21,901,580	19,922,234
Widows'	12,072	2,542,311	2,323,835
Orphans'	302	30,327	27,583
Family	290,480	17,446,229	17,618,581
Invalids'	8,194	1,643,634	1,488,425
Miners'	508	131,820	123,547
Sickness	4,395		1,086,241
Unemployment	17		6,575
Emergency	2,133		366,558
Totals	515,533		48,992,762
Medical—			
Medical			3,085,749
Hospital			2,184,239
Maternity			924,616
Pharmaceutical			2,919,620
Supplementary			1,492,822
Totals			10,607,046
War pensions—			
First World War	17,419	3,109,361	2,776,891
Second World War	24,766	2,349,674	2,107,575
War veteran's allowance	6,810	2,117,910	1,822,018
South African War	29	4,774	4,528
Mercantile Marine pensions	24	2,928	2,284
Emergency Reserve Corps	9	2,018	1,618
Keyforce	104	10,768	9,377
Totals	49,161	7,597,433	6,724,391
Sundry pensions and annuities	364	59,157	55,285
Grand totals	565,058		66,379,484

PRICES

Retail Prices (pp. 881–884).—Details of the consumers' price index for the calendar year 1953, and for each of the quarters ended 31 March 1954 and 30 June 1954, are given below.

CONSUMERS' PRICE INDEX

Base: Weighted average twenty-one towns, first quarter, 1949 (=1000)

—	Calendar Year 1953	Quarter Ended 31 March 1954	Quarter Ended 30 June 1954
Food—			
Meat and fish	1755	1853	1871
Fruit, vegetables, and eggs	1588	1460	1537
Other foods	1366	1459	1502
All foods	1509	1553	1598
Housing—			
Rent	1181	1237	1237
Other housing	1243	1322	1322
All housing	1219	1288	1288
Fuel and lighting	1366	1469	1480
Clothing and footwear—			
Clothing	1296	1329	1360
Footwear	1424	1459	1488
Clothing and footwear	1316	1349	1380
Miscellaneous—			
Household durable goods	1165	1177	1181
Other commodities	1147	1151	1160
Services	1224	1282	1288
All miscellaneous	1177	1202	1208
All groups	1333	1377	1400

Share Prices (pp. 891–894).—Index numbers of share prices in 1953, together with the average for the three months ended March 1954, are given below.

Group	Index Numbers Base Average for Each Group, 1938 (= 1000)	
	Average for 1953	Average for 3 Months Ended March 1954
Frozen meat	1864	2010
Woolleins	1634	1790
Gas	624	565
Timber	1387	1379
Minerals	1135	1238
Miscellaneous (including breweries)	1196	1261
All industrial groups	1216	1279
Banks	1039	1165
Insurance	2080	2291
Loan-agency companies	2091	2287
Miscellaneous	1971	2116
All finance, etc., groups	1747	1918
All groups combined	1482	1598

Monthly statistics for the first five months of 1954 are given below, together with figures for the corresponding months of 1953.

SHARE PRICES MONTHLY INDEX NUMBERS, YEAR 1938 (=1000)

--	--

—	1953			1954		
	Industrial Groups	Finance Groups	All Groups	Industrial Groups	Finance Groups	All Groups
January	1178	1639	1408	1259	1895	1577
February	1162	1646	1404	1280	1917	1598
March	1162	1651	1407	1298	1942	1620
April	1165	1675	1420	1304	1953	1628
May	1185	1696	1441	1321	2025	1672

LABOUR STATISTICS

Wage-rates (pp. 899–902).—Index numbers of average nominal wage-rates of wage-earners in 1952 and 1953, and of adult male wage-earners as at 31 March 1954, are as follows.

Industrial Group	Base: All Groups 1926–30 (= 1000)				
	Adult Males			Adult Females	
	Average for Year		As at 31 March 1954	Average for Year	
	1952	1953		1952	1953
Provision of—					
Food, drink, etc.	2266	2416		2570	2367
Clothing, footwear, and textiles	2143	2311		2460	2392
Building and construction	2066	2227		2369	
Power, heat, and light	2140	2298		2449	
Transport by water	2367	2513		2680	
Transport by land	2080	2238		2384	
Accommodation, meals, and personal service	1917	2161		2319	2525
Working in or on—					
Wood, wicker, seagrass, and fibre	2177	2333		2487	
Metal	2234	2424		2579	
Stone, clay, glass, and chemicals	2010	2178		2326	
Paper, printing, etc.	2283	2459		2627	2388
Skins, leather, etc.	1975	2133		2275	
Mines and quarries	2131	2285		2466	
The land (farming pursuits)	2087	2150		2279	
All groups combined	2143	2284		2432	2408
				2611	

Effective Weekly Wage Rates (p. 903).—The following table shows nominal and effective weekly wage rates of adult workers for the years 1952 and 1953 and of males only for the first quarter of 1954. The base of the index numbers is in each case the average of the five years 1926–30 (= 1000).

Year	Retail Prices (All Groups)	Nominal Weekly Wage Rates		Effective Weekly Wage Rates	
		Males	Females	Males	Females
1952	1688	2143	2408	1270	1427
1953	1765	2284	2611	1294	1479
1954—					
March quarter	1823	2432	*	1334	*
* Not available.					

Average Rates of Wages (pp. 905–908).—The following table gives the prescribed minimum average weekly wage rates as at 31 March 1954, the series being confined to adult males.

Occupation	Average Wage (Four Principal Districts) at 31 March 1954	
Adult Males		
Bakers—	s.	d.
Journeyman	225	10
Labourers	190	10
Butchers—		
First shopmen	241	1
Second shopmen	224	5
Butter factory employees—Churning and butter making: General hands	192	10
Flourmilling—		
Kilmen	215	5
Assistant smuttermen	205	4
Rollermen	231	11
Meat freezing—		
Slaughtermen, per 100 sheep	98	3
General hands	231	0
Meat preserving—		
Boners	274	0
General hands	231	0
Sausage-casing making: General hands	238	4
Aerated water and cordial making—		
Cordial makers	201	5
Bottle washers	191	11
Brewing labourers	209	0
Tailors—		
Journeyman	220	0
Factory hands	220	0
Boot operatives	220	0
Woollen mills—		
Spinners	223	8
General hands	199	10
Building—		
Bricklayers	233	5
Carpenters and joiners	226	8

NOTE.—The following prerequisites (as assessed for statistical purposes), as at 31 March 1954, should be added to the listed occupations: General farm hands, ploughmen, shepherds, and dairy-farm hands, 35s. per week for board and lodging; shearers and wool pressers, 7s. per day for rations; assistant stewards (first and second grade), chief and second cooks, able and ordinary seamen, 44s. 5d. per week as value of board and lodging; and hotel chefs and waiters, 41s. 10d. per week as value of board and lodging.

Occupation	Average Wage (Four Principal Districts) at 31 March 1954	
Plasterers	230	3
Plumbers (competent)	231	5
Builders' labourers	207	9
General labourers	188	9
Sawmilling—		
Engine drivers	231	0
Sawyers	236	1
Tailors-out	215	0
Yardmen, head	231	0
General hands	210	10
Boatbuilding: Shipwrights	233	1
Metal works, etc.—		
Boilermakers, journeymen	224	7
Iron and brass moulders	226	6
Tinsmiths, journeymen	224	7
Engineering fitters, etc.	227	1
Electrical workers	229	2
Motor mechanics	232	11
Printing—		
Lino-type operators (day)	236	6
Letterpress machinist (day)	227	4
Skin and leather workers—		
Curriers	213	7
General hands	188	10
Mineral and stone workers—		
Brickmakers	214	6
General hands	194	4
Mining (coal)—		
Surface—		
Screen worker	217	9
Miners (on day wages, per shift)	50	7
Truckers	211	4
Quarrymen	195	1
Agricultural and pastoral workers—		
General farm hands	152	0
Threshing-mill hands, per hour	5	3
Ploughmen	152	0
Shearers (per 100 sheep shorn)	68	0
Shepherds	152	0
Wool pressers	245	8
Dairy-farm hands	185	0
Railways—		
Engine drivers, average third and sixth years	244	4
Firemen, average second and ninth years	221	10
Guards, average first and third years	237	0
Tramways—		
Motormen	211	9
Conductors	203	6
Shipping and cargo working—		
Assistant stewards, first grade	204	3
Assistant stewards, second grade	200	7
Chief cooks	252	2
Second cooks	227	2
Able seamen	219	11
Ordinary seamen, first class	170	1
Waterside workers: Ordinary cargo	221	8
Hotel workers—		
Chefs	216	10
Waiters	153	0
Miscellaneous—		
Soft goods assistants (male)	214	10
Grocers' assistants	205	10
Warehouse storemen	205	4

NOTE.—The following prerequisites (as assessed for statistical purposes), as at 31 March 1954, should be added to the listed occupations: General farm hands, ploughmen, shepherds, and dairy-farm hands, 35s. per week for board and lodging; shearers and wool pressers, 7s. per day for rations; assistant stewards (first and second grade), chief and second cooks, able and ordinary seamen, 44s. 5d. per week as value of board and lodging; and hotel chefs and waiters, 41s. 10d. per week as value of board and lodging.

Aggregate Weekly Wage Payment in Industry (pp. 909-911).—The following data, showing the average weekly wage pay-out in industry, have largely been extracted from the half-yearly surveys conducted by the Department of Labour and Employment.

All Industrial Groups Combined	Pay-roll Strength, Males and Females Combined (Including Juveniles and Salaried Executives)	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)			
		Aggregate		Average Per Person	
		£	s.	d.	
1949 October	450,104	3,632,663	8	1	5
1950 April	459,698	3,780,634	8	4	6
October	457,028	4,016,485	8	15	9
1951 April	463,888	4,526,727	9	15	2
October	465,728	4,729,159	10	3	1
1952 April	475,975	4,945,724	10	7	10
October	474,316	5,050,689	10	13	0
1953 April	487,913	5,401,499	11	1	5

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

All Industrial Groups Combined	Pay-roll Strength, Males and Females Combined (Including Juveniles and Salaried Executives)	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)			
		Aggregate		Average Per Person	
		£	s.	d.	
October	487,266	5,409,859	11	2	0*
1954 April	502,442	6,145,327	12	4	7

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

Estimated Distribution of the Labour Force (p. 968).—The following table supplies an estimated distribution of the total labour force at 15 October 1953 and 15 April 1954.

Industrial Group	Males		Females		Totals	
	October 1953	April 1954	October 1953	April 1954	October 1953	April 1954
	Thousands					
Primary industry	137.8	137.0	12.2	12.2	150.0	149.2
Manufacturing industry	141.4	149.4	43.8	44.8	185.2	194.2
Power, water, and sanitary services	10.8	10.8	0.7	0.8	11.5	11.6
Building and construction	62.8	64.8	1.2	1.2	64.0	66.0
Transport and communication	68.5	69.0	8.1	8.4	76.6	77.4
Distribution and finance	84.9	86.8	39.0	40.1	123.9	126.9
Domestic and personal services	18.9	19.2	26.2	26.5	45.1	45.7
Administration and professional	54.3	54.6	49.1	50.2	103.4	104.8
Totals, in industry	579.4	591.6	180.3	184.2	759.7	775.8
Armed forces	10.6	10.9	10	0.9	11.6	11.8
Unemployed	0.1	0.1			0.1	0.1
Totals, labour force	590.1	602.6	181.3	185.1	771.4	787.7

Half-yearly Surveys of Employment (pp. 971-972). Following is a summary of the employment statistics as returned for 15 April 1954.

	Primary Industry (Other than Farming, Fishing, and Hunting)	Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication	Distribution and Finance	Domestic and Personal Services	Administration and Professional	Totals, all Industries Covered	
Male employees	10,428	131,182	10,810	44,579	50,596	63,303	11,237	41,066	363,201	
Male working proprietors	350	8,300		6	5,032	1,647	8,313	2,840	631	27,119
Female employees	205	41,151		774	1,048	7,810	34,211	13,546	40,496	139,241
Female working proprietors	1	1,192		4	39	2,429	1,719	182		5,566
Number of establishments	611	12,095		241	4,716	2,457	13,459	4,278	3,540	41,397

The figures shown in the manufacturing industry column are further subdivided as follows.

	Food, Drink, and Tobacco	Textiles, Clothing, and Leather	Building Materials and Furnishings	Engineering and Metal Working	Miscellaneous Manufacturing	
Male employees	29,748	12,446	24,249	48,021	16,718	
Male working proprietors	1,101	981		1,716	841	
Female employees	6,540	22,662		1,321	4,614	6,014
Female working proprietors	462	556		25	73	76
Number of establishments	1,909	1,949		2,553	4,347	1,337

Limitations in the coverage of the figures shown above are noted on page 970.

Summary of Vacancies, Placements, and Disengaged Persons.—This table gives additional figures to those presented on page 977.

	Vacancies at End of Month/Placements During Month/Disengaged Persons at End of Month								
	Males			Females			Total		
Monthly average over calendar year—									
1952	11,733	5,914	17,647	1,470	535	2,005	33	14	47
1953	7,944	3,455	11,399	1,361	530	1,891	67	18	85
Monthly total—									
1954—									
January	7,894	3,681	11,575	1,035	645	1,680	56	8	64
February	8,406	3,900	12,306	1,726	1,291	3,017	32	11	43
March	8,268	3,989	12,257	1,103	556	1,659	42	19	61
April	8,157	4,136	12,293	867	315	1,182	50	15	65

TRANSPORT

Shipping and Cargo Handled (pp. 327-336).—Statistics of entrances and clearances of vessels in the foreign trade in 1952 and 1953, and the total calls made in the foreign and coastal trade for the same years, are shown in the following table. The tonnage of cargo handled is also given.

	Calendar Year	
	1952	1953
Entrances—		
Overseas—		
Number of vessels	704	673
Net tonnage	3,028,030	2,767,557
Clearances—		
Overseas—		
Number of vessels	726	676
Net tonnage	3,140,296	2,804,020
Total calls made—		
Overseas—		
Number of vessels	1,820	1,841
Net tonnage	7,640,410	7,257,775
Coastal—		
Number of vessels	13,622	13,696
Net tonnage	4,621,963	4,451,465
Total—		

	Calendar Year	
	1952	1953
Number of vessels	15,442	15,537
Net tonnage	12,262,373	11,709,240
Tonnage of cargo handled—		
Inwards	6,783,072	5,811,371
Outwards	3,174,834	3,111,992
Transhipped	207,218	174,294
Total manifest tonnage	10,372,342	9,271,951

Statistics of shipping movement and cargo handled at New Zealand ports in 1952 and 1953 are given below.

	Total Shipping Movement		Total Cargo Handled	
	1952: Net Tonnage	1953: Net Tonnage	1952: Tons	1953: Tons
	(000)	(000)	(000)	(000)
Auckland	4,698	4,406	3,351	3,028
Wellington	7,586	7,153	2,647	2,280
Lyttelton	4,562	4,400	1,169	1,024
Dunedin	2,007	1,797	649	536
Other ports	5,714	5,687	2,556	2,404
Totals	24,567	23,443	10,372	9,272

Railway Transport (pp. 339–347).—Summarized statistics of railway transport in the years ended 31 March 1952, 1953, and 1954 follow.

	Unit	Year Ended 31 March		
		1952	1953	1954
Passenger journeys—				
Railways	(000)	21,293	21,455	23,272
Railway road motor services	(000)	24,664	24,120	22,627
Tonnage of goods carried—				
Timber	Tons (000)	744	819	772
Livestock	Tons (000)	639	647	631
Coal	Tons (000)			
Lime and manures	Tons (000)	8,446	8,560	8,231
Other goods	Tons (000) †			
Totals	Tons (000)	9,829	10,026	9,635
Net ton-miles run	Millions	1,069	1,063	1,034
Revenue—				
Railway operation	£(000)	20,097	22,589	23,682
Total†	£(000)	23,993	26,608	27,895
Expenditure—				
Railway operation	£(000)	21,515	22,755	23,621
Total†	£(000)	25,196	26,525	27,491

* Including road motor and other subsidiary services.

Road Transport (p. 361).—Statistics of motor-vehicles licensed at 31 March 1953 and 1954 are as follows.

Class	As at 31 March	
	1953	1954
Cars	305,672	323,641
Trucks—		
Light	56,582	56,707
Heavy	44,459	46,258
Contract vehicles	2,106	2,164
Omnibuses	1,762	1,822
Taxis	2,233	2,258
Rental cars	1,638	1,706
Private-hire cars	352	289
Service cars	727	723
Trailers	44,137	48,675
Vehicles exempted from payment of licence fees (other than exempted Government-owned vehicles)	45,564	47,287
Government vehicles	13,900	14,632
Motor cycles	25,546	25,754
Power cycles	3,651	3,972
Totals	548,329	575,888
Dealers' cars	2,312	2,443
Dealers' motor cycles	121	128
Grand totals	550,762	578,459

INDUSTRIAL ACCIDENTS (pp. 997–1009)

As explained on page 998, since December 1951 the definition of an accident has been amended to include those in which the worker is absent beyond the day or shift on which the accident occurred.

Detail	Calendar Year 1951	Calendar Year 1952
Total number of accidents	33,489	37,201
Number of accidents resulting in—		
Fatality	71	54
Permanent total disability	7	2
Permanent partial disability	820	493
Temporary disability	32,591	36,652
Accidents resulting in temporary disability—		
(a) Duration of incapacity of—		
Under 3 days	7,743	1,408

Detail	Calendar Year 1951	Calendar Year 1952
3 days and up to 1 week	8,668	
Over 1 week and up to 2 weeks	10,274	11,354
Over 2 weeks and up to 4 weeks	7,900	8,507
Over 4 weeks and up to 6 weeks	2,766	3,007
Over 6 weeks and up to 13 weeks	2,802	2,750
Over 13 weeks	1,106	958
(b) Amount of lime lost—		
Number of cases	32,591	36,652
Time lost, in days	789,636	753,365
Calendar days lost by all accidents where—		
(a) Constant allowance for age is made in case of fatality or permanent disability	3,202,168	2,006,950
Average per case	96	54
(b) Actual age of person is taken into account in case of fatality or permanent disability	2,719,472	1,783,560
Average per case	81	48
Amount of compensation or damages paid—		
Totals	£ 1,494,651	£ 1,144,219
Average per case	£ 44.6	£ 30.8

FIRE LOSS STATISTICS, 1952 (pp. 828–836)

A classification of insured property losses through fire during the calendar year 1952 is given below. The figures are comparable with those covering the year 1951 shown in Section 34c.

Type of Fire District	Number of Separate Fires	Gross Amount of Insurance Cover on Risks Affected	Percentage of Loss Paid to Amount at Risk
		£	£
United urban fire districts	4,089	17,530,358	919,828
Urban fire districts	6,050	14,195,477	402,685
Secondary urban fire districts	559	625,457	74,192
Remainder of New Zealand	1,702	3,858,349	309,119
Floating and travelling risks	202	824,297	10,626
Totals	12,602	37,033,938	1,716,450

The principal causes of outbreaks during 1952 are set out in the following table.

Causes of Fires	Number of Separate Fires	Insurance Cover on Risks Affected	Amount of Loss	Average Loss Per Fire
		£	£	£
Electricity	2,624	6,499,494	133,598	51
Gas	257	618,942	19,866	77
Naked lights	175	329,145	17,481	100
Defective chimneys, etc.	629	2,903,488	61,420	98
Smoking and careless use of matches	1,857	5,187,239	79,332	43
Sparks from fireplaces	4,503	4,141,317	71,906	16
Heating, boiling-down	296	1,045,979	18,560	63
Inflammable spirits and materials	292	4,338,034	164,481	563
Incendiarism and arson	36	298,328	11,557	321
Outside causes	271	674,577	17,668	65
Other causes	30	669,538	7,139	238
Floating and travelling risks	202	824,297	10,626	53
Unknown causes	1,430	9,503,560	1,102,816	771
Totals	12,602	37,033,938	1,716,450	136

REHABILITATION (pp. 251–260)

The following table gives particulars of rehabilitation-loan authorizations for the years ended 31 March 1953 and 1954, and the totals to 31 March 1954.

Class of Loan	Number			Amount		
	1952-53	1953-54	Total to 31 March 1954	1952-53	1953-54	Total to 31 March 1954
				£(000)	£(000)	£(000)
Purchase of farm, etc.	853	685	10,134	6,426	6,417	52,779
Housing—						
Erection	1,349	1,289	20,419	6,628	5,579	61,801
Purchase	2,511	1,747	25,905			
Tools of trade	14	10	1,469	1	1	49
Furniture	3,298	2,454	59,557	331	258	5,573
Business	428	264	10,963	326	228	7,070
Miscellaneous	29	25	658	4	2	131
Totals	8,482	6,474	129,105	13,716	12,485	127,403

* Excludes suspensory loans.

Included in the foregoing total figures are 22,166 supplementary housing loans for £2,887,063. These loans, which are not repayable so long as the ex-serviceman or his dependants continue in occupation of the property, are granted to assist in bridging the gap between present-day costs and normal values, and each case is considered on its merits.

The figures shown in the table are exclusive of 6,984 suspensory loans (5,166 residential and 1,818 farm), amounting to £2,802,873 (£872,425 residential, £1,930,448 farm), made up to 31 March 1954.

EDUCATION (p. 149)

The following table shows the number of scholars and students receiving instruction in the educational institutions of New Zealand during the years 1952 and 1953. Registered private schools are included.

	1952	1953
Primary schools	341,156	359,537
Post-primary schools	61,529†	67,478†
Technical classes (part-time)	26,349	30,637

* Exclusive of students taking part-time courses with the Correspondence School, 1,227 in 1952, and 1,179 in 1953.

† Includes 614 students taking short courses at the agricultural colleges in 1952 and 636 in 1953.

—		1952	1953
Universities		11,305 ¹	11,467 ¹
Teachers' training college		2,710	2,769
Totals		443,049	471,888
Kindergartens		5,271	5,616
[*] Exclusive of students taking part-time courses with the Correspondence School, 1,227 in 1952, and 1,179 in 1953.			
[†] Includes 614 students taking short courses at the agricultural colleges in 1952 and 636 in 1953.			

MISCELLANEOUS STATISTICS

Radio Licences (p. 394).—The number of radio licences for receiving stations in force on 31 March 1954 was 501,756, and for all classes of radio licences 506,523, compared with 491,856 and 496,355 respectively at 31 March 1953.

Horse Racing (p. 723).—The number of racing days in the calendar year 1953 was 354. Totalizator investments totalled £38,611,000 in 1953 (£33,739,000 in 1952), while Government taxation totalled £3,563,000 in 1953 (£3,128,000 in 1952).

Land Transfers (pp. 400–402).—Transactions under the Land Transfer Act have been on a very heavy scale during the last three financial years. The average amount per transaction (town and suburban properties) in 1953–54 was £2,175, as compared with £2,082 in 1952–53 and £1,586 in 1951–52.

—	Year Ended 31 March		
	1952	1953	1954
Town and suburban properties—			
Number	46,145	39,325	43,427
Consideration £	73,165,000	65,461,000	75,503,000
Country properties—			
Number	10,464	9,053	9,188
Area Acres	1,848,602	1,616,781	1,675,617
Consideration £	35,965,000	35,241,000	38,915,000
All properties—			
Number	56,609	48,378	52,615
Consideration £	109,129,000	100,702,000	114,419,000

Mortgages (pp. 791–801).—Particulars of gross totals of mortgages registered and discharged during the last three financial years are shown below. In sympathy with the movement in land transfer registrations, mortgage registrations have been heavy during recent years. The 1953–54 figure of £70,910,000 showed a slight decrease on the total of £74,732,000 for the previous year.

Year Ended 31 March	Registered[*]		Discharged[†]	
	Number	Amount	Number	Amount
		£		£
1952	49,886	73,179,000	37,935	57,595,000
1953	50,659	74,732,000	34,140	51,401,000
1954	52,833	70,910,000	36,731	56,082,000
[*] Inclusive of duplicate registrations and discharges.				

Justice.—Prisoners in gaols at end of calendar year (pp. 226–232): 1952, 1,113, or 5.50 per 10,000 of population; 1953, 1,115, or 5.44 per 10,000 of population.

Registration of Aliens (pp. 33–34).—The number of aliens on the register at 1 April 1954 totalled 23,148 (15,304 males, 7,844 females), compared with 1 April 1953 figures of 21,726 (14,732 males, 6,994 females).

Naturalizations (p. 32).—The number of certificates of naturalization issued to former aliens during the year ended 31 March 1954 was 136, compared with a total of 118 in the previous year. Certificates of registration as a New Zealand citizen were granted to 250 citizens of other countries of the Commonwealth or of former aliens (228 in 1952–53), and 65 certificates of registration (38 in 1952–53) to minor children (either citizens of other countries of the Commonwealth or former aliens).

Chapter 1. SECTION 1—DESCRIPTIVE

Table of Contents

AREA AND BOUNDARIES.—The administrative responsibilities of New Zealand devolve over a large area, the land territories of which consist principally of a number of islands of varying size in the South Pacific Ocean, together with a large uninhabited tract in the Antarctic Ocean. While the two largest and most important islands, the North and South Islands of New Zealand, are separated only by a relatively narrow strait, the remaining islands or island groups are very much smaller and in general are widely dispersed over a considerable expanse of ocean.

The boundaries of New Zealand inclusive of its most outlying islands and dependencies range from the northern limit of the 8th degree of south latitude to south of the 60th degree of south latitude, the complementary extremes of longitude with origin Greenwich being from the 160th degree of east longitude to the 150th degree of west longitude.

The precise boundaries as they now exist were originally defined in the relevant proclamations, letters patent, and legislation mentioned in the pages immediately following; general statements are contained in the description next presented relating to those areas over which New Zealand exercises jurisdiction or administrative responsibility. In all instances the measurement of longitude refers to the system of meridians east or west of Greenwich.

In proceeding from north to south, the first area, including the Tokelau Islands some 300 miles north of Western Samoa or 2,300 miles approximately north by east of Wellington (the capital of New Zealand), extends from the 8th to the 10th degrees of south latitude and from the 171st to the 173rd degrees of west longitude. The second area encloses the Cook and associated islands distant from Wellington in a north-easterly direction approximately 2,100 miles Lower (Southern) Group to 2,800 miles (Northern Group and Niue). The Lower (Southern) and Northern Groups are bounded on the east and west by the 156th and 167th degrees of west longitude respectively, and on the north and south by the 8th and 23rd degrees of south latitude. Niue Island is situated in latitude 19° 02' south and longitude 169° 52' west.

Then follows a third zone covering the trust territory of Western Samoa, which is some 2,000 miles distant to the north-north-east and contained within the 13th to the 15th degrees of south latitude and the 171st to 173rd degrees of west longitude.

Farther south, and slightly north by east from New Zealand, a matter of roughly 1,000 miles from Wellington, is situated the Kermadec Islands group. These islands lie between the 29th and 32nd degrees of south latitude and the 177th and 180th degrees of west longitude.

New Zealand as defined after the extension or boundaries in 1863 constitutes the fifth and principal area. Its boundaries extend from the 33rd to the 53rd degrees of south latitude and from the 162nd degree of east longitude to the 173rd degree of west longitude.

The sixth area relates to the Ross Dependency which is administered by New Zealand and consists' of the coasts of the Ross Sea with adjacent islands and territories between the 160th degree of east longitude and the 150th degree of west longitude, and south of the 60th degree of south latitude.

Jointly with the United Kingdom Government and the Government of Australia, New Zealand is responsible for the administration of the Trust Territory of the Island of Nauru. The administrative appointments for Nauru are made by the Australian Government, but New Zealand appoints a representative to the British Phosphates Commission, which controls the working of the phosphate deposits.

For statistical purposes, the following classification of the administrative area of New Zealand is the most convenient, the actual areas being also given. It should be noted also that statistics for "New Zealand" refer to the group of islands shown in (a) only, unless it is expressly stated that the other islands as a whole or in part are included.

New Zealand:—	Area in Square Miles
(a) Exclusive of Island Territories—	
North Island	44,281
South Island	58,093
Stewart Island	670
Chatham Islands	372
Minor islands—	
Inhabited—	

New Zealand:—	Area in Square Miles
Kermadec Islands	13
Campbell Island	44
Uninhabited (areas in parentheses)—	263
Three Kings (3). Snares (1).	
Solander (½). Antipodes (24).	
Bounty (½). Auckland (234).	
Total New Zealand, exclusive of Island Territories	103,736
(b) Island Territories—	
Tokelau Islands, comprised of	4
Fakaofu Island, Nukunono Island, Atafu Island	
Cook and associated islands, comprised of—	
Lower (Southern) Group	78
Rarotonga. Aitutaki.	
Mangaia. Mauke.	
Atiu. Takutea.	
Mitiaro. Manuae and Te-au-o-tu.	
Northern Group	12
Palmerston. Pukapuka.	
Penrhyn. Suvarrow.	
Manihiki. Nassau.	
Rakahanga.	
Niue Island	100
Total New Zealand, inclusive of Island Territories	103,930
Ross Dependency (Estimated)	175,000
Trust Territory of Western Samoa	1,133

The total area of the foregoing groups exclusive of the Ross Dependency and the Trust Territory of Western Samoa is 103,930 square miles. Elsewhere in this issue—viz., in the section on land tenure, settlement, etc.—the aggregate area of New Zealand appears as 66,390,700 acres—i.e., 103,736 square miles. The latter area does not include the Cook and associated islands or the Tokelau Islands.

The relevant Proclamations, defining from time to time the administrative area of New Zealand, are briefly referred to in the following paragraphs.

The Proclamation of British sovereignty over New Zealand, dated 30 January 1840, gave as the boundaries of what was then the colony the following degrees of latitude and longitude: On the north, 34°30' S.lat.; on the south, 47°10' S.lat.; on the east, 179°0' E. long.; on the west, 166°5' E. long. These limits excluded small portions of the north of the North Island, and of the extreme south of Stewart Island.

In 1842, by Letters Patent, and again by the Imperial Act 26 and 27 Vict. c. 23 (1863), the boundaries were altered so as to extend from 33° to 53° of south latitude and from 162° of east longitude to 173° of west longitude. The *minor* islands mentioned earlier were thus brought within the extended boundaries of New Zealand, being assigned to the appropriate province on the occasion of the 1847 Proclamation dividing the country into two provinces. The number of provinces was increased in later years, though all were finally abolished in 1875. By Proclamation bearing date 21 July 1887 the Kermadec Islands were declared to be annexed to and to become part of the then colony of New Zealand.

By Proclamation of 10 June 1901 the Cook Islands, and all the other islands and territories situate within the boundary lines mentioned earlier, were included as from 11 June 1901.

The territory of Western Samoa was formerly administered pursuant to a mandate conferred upon His Britannic Majesty, to be administered on his behalf by the Government of New Zealand, and confirmed by the Council of the League of Nations on 17 December 1920. Following the replacement of the League of Nations by the United Nations, a draft Trusteeship Agreement for Western Samoa was prepared by the New Zealand Government and submitted to the General Assembly of the United Nations late in 1946. This draft agreement replaced the original mandate and thus brought the Territory within the framework of the international trusteeship system established under the United Nations Charter. Under the new agreement the New Zealand Government assumed direct responsibility for the administration of Western Samoa. The agreement was approved by the General Assembly on 13 December 1946. Western Samoa is comprised of two large islands, Upolu and Savai'i, and the small islands of Manono, Apolima, Fanaatupu, Nana'u, Nu'utele, Nu'ulua, and Nu'usafe'e.

By Imperial Order in Council of 30 July 1923 the coasts of the Ross Sea (in the Antarctic regions), with the adjacent islands and territories between the limits specified earlier, were declared a British settlement within the meaning of the British Settlements Act 1887. This region was named the Ross Dependency, and placed under the administration of the Governor-General of New Zealand. The dependency is uninhabited.

By Imperial Orders in Council of 4 November 1925 the Tokelau Islands (consisting of the islands of Fakaofu, Nukunono, and Atafu, and the small islands, islets, rocks, and reefs depending on them, a total area of only four square miles) were excluded from the Gilbert and Ellice Islands Colony, and placed under the administration of the Governor-General of New Zealand. In accordance with a provision of the second of these Orders in Council, the Governor-General's authority and power in connection with the administration of the islands were, by New Zealand Order in Council of 8 March 1926, delegated to the Administrator of Western Samoa.

By the Tokelau Islands Act 1948, which came into operation on 1 January 1949, the Tokelau Islands were declared to form part of New Zealand. This Act emerged as the result of an agreement between the United Kingdom and New Zealand Governments.

GEOGRAPHICAL FEATURES.—Coast Line.—Since the combined length of the North and South Islands extends just over a thousand miles, and since the width of neither Island exceeds 280 miles at its broadest point, New Zealand possesses a very lengthy coast line in proportion to its area. With the exception of the low-lying North Auckland Peninsula, the New Zealand landmass lies along a south-westerly and north-easterly axis, parallel to the direction of its mountain chains.

By reason of the latter fact the coast line is, on the whole, not greatly indented; and, as a consequence, New Zealand is not well endowed with natural harbours. In the North Island, Auckland and Wellington are the only two safe natural harbours of which the fullest commercial use can be made. On the east coast of the North Auckland Peninsula several deep and sheltered harbours exist, but as the surrounding country is comparatively undeveloped they are of little economic consequence at present. In the South Island the Marlborough Sounds and the West Coast Sounds form perfect land-locked harbours, but owing to their situations and to the rugged nature of the terrain they have—with the exception of Queen Charlotte Sound—little or no commercial utility. Where vital localities have not been endowed with ideal harbours it has been necessary to improve existing facilities by dredging and by breakwater construction, &c. In this manner efficient ports, capable of accommodating overseas vessels, have been formed in Lyttelton, Otago, and Bluff harbours. On the west coast of both Islands the strong ocean drifts and high seas cause shoaling at river mouths and harbour entrances, while on the east coast of the South Island similar circumstances prevail, due to the large quantities of shingle brought down by the rivers being spread along the coast by ocean currents. The mountainous nature of the country makes the haulage of goods to and from the better equipped natural harbours both costly and difficult, and the construction and maintenance of further ports at various points along the coasts of both Islands has been necessary, either by dredging river mouths or by harbour-construction work.

Mountains.—The mountainous nature of New Zealand is one of its most striking physical characteristics, less than one-quarter of the land surface lying below the 650 ft. contour. In the North Island the higher mountains occupy approximately one-tenth of the surface; but, with the exception of the four volcanic peaks of Egmont (8,260 ft.), Ruapehu (9,175 ft.), Ngauruhoe (7,515 ft.), and Tongariro (6,458 ft.), they do not exceed an altitude of 6,000 ft. Of these four volcanoes only the first named can be classed as dormant. Ruapehu was particularly active from March 1945 to the end of that year, being responsible for considerable deposits of volcanic ash over a very wide area, while spectacular activity was exhibited by Ngauruhoe in 1949 and again early in 1953. In both cases violent eruptions alternated with quieter periods. Other volcanoes include Mount Tarawera and White Island, each of which has, upon one occasion within historical times, erupted with disastrous consequences. Closely connected with the volcanic system are the multitudinous hot springs and geysers.

The mountain system of the North Island runs generally in a south-west direction, parallel to the coast, from East Cape to Cape Turakirae, and includes the following ranges from the north: Raukumara, Hiaurau, Ruahine, Tararua, and Rimutaka. This chain is flanked on the west between the Hiaurau and Ruahine by the Ahimauwau, Kaweka, and Kaimauwau ranges, while west of the Kaimauwau is the National Park volcanic group comprising Mounts Ruapehu, Ngauruhoe, and Tongariro. The Hauhangaroa and Rangitoto ranges run in a northerly direction from the National Park group. In the east the Colville and Mochua ranges parallel the length of the Coromandel Peninsula. Mount Egmont forms the only country above 4,000 ft. on the west coast of this island.

The South Island is much more mountainous than the North, but shows fewer manifestations of recent volcanic activity. Along almost the entire length of the Island runs the massive chain known as the Southern Alps, which attains its greatest height in Mount Cook (12,349 ft.), while no fewer than seventeen peaks exceed 10,000 ft. West and north-west of the main portion of the Southern Alps are the Victoria, Brunner, and Lyell ranges and the Tasman Mountains, the Victoria Range being flanked by the Paparoa range. To the north run the St. Arnaud and Raglan ranges, while to the north-east are the Spenser Mountains and the Kaikoura and Seaward

Kaikoura ranges, the two latter ranges running parallel to the east coast. The south portion of the Southern Alps breaks up into a miscellany of ranges dominating the mountainous Fiord and north-western Southland regions.

As might be expected, the higher mountains of the South Island have exerted a greater influence on the economic development of the country than those of the North Island. For many years the Southern Alps were an effective barrier to communication by land between the east and west coasts, while their climatic effects on the Canterbury plains and Otago plateaus determined the types of cultivation undertaken. Moreover, the existence of much elevated open country led to the development of pastoral holdings on a large scale. While the mountains in the North Island are not as high nor as extensive as those of the South Island, in the early days they effectively isolated various portions of the coastal plains and valleys. Their effect on climatic conditions, however, is considerably less, the rainfall being more evenly distributed. Owing to this more even distribution of the rainfall, and to the existence of considerable areas of lower relief, the foothills of the mountain systems were heavily wooded, and so proved a hindrance to agrarian development.

In the 1931 issue of the Year-Book a list was given, not claimed as exhaustive, of 223 named peaks of 7,500 ft. or more in altitude. Below is a list of the peaks restricted to the four largest volcanic cones in the North Island and to mountains of a minimum height of 9,000 ft. in the South Island. The list has been compiled from various sources, and does not purport to be free from omissions.

Mountain or Peak	Height (Feet)
NORTH ISLAND	
Ruapehu	9,175

Mountain or Peak	Height (Feet)
Egmont	8,260
Ngauruhoe	7,515
Tongariro	6,458
SOUTH ISLAND	
<i>Kaikoura Ranges—</i>	
Tapuaeunuku	9,465
Alam	9,400
<i>Southern Alps—</i>	
Cook	12,349
Tasman	11,475
Dampier	11,287
Silberhorn	10,757
Lendenfeldt	10,450
David's Dome	10,443
Mahe Brun	10,421
Torres	10,376
Teichelmann	10,370
Sefton	10,354
Haast	10,294
Elie de Beaumont	10,200
Douglas Peak	10,107
La Perouse	10,101
Haidinger	10,059
De la Beche	10,058
The Minarets	10,058
Aspiring	9,975
Hamilton	9,915
Glacier Peak	9,865
Argylls Ranges	9,731
Nasami	9,716
Darwin	9,715
Chadleigh	9,686
Amn	9,667
Lowe	9,653
Haackel	9,649
Le Receveur	9,562
Goldsmith	9,532
Big Mac	9,511
Conway Peak	9,510
Bristol Top	9,508
Walher	9,507
Grey	9,490
Green	9,307
Hutton	9,297
D'Archiac	9,279
Bell	9,276
Hochstetter Dome	9,258
Earnslaw	9,250
Nathan	9,200
Barnicot	9,183
Sibbald	9,181
Arrowsmith	9,171
Spencer	9,167
The Footstool	9,073
Rudolf	9,039
The Dwarf	9,025
<i>Darran Range—</i>	
Tutoko	9,691
Madeline	9,042

Glaciers.—In keeping with the dimensions of the mountain system, New Zealand possesses, in the South Island, a glacial system of some magnitude. Of the glaciers the largest is the Tasman, which, with others of comparable size, rises in the more elevated area surrounding Mount Cook. Flowing down the eastern slope of the range, the Tasman glacier has a length of 18 miles and a width of 1 ½ miles. In common with other glaciers on the eastern slope, of which the more important are the Murchison (11 miles), the Mueller (8 miles), the Godley (8 miles), and the Hooker (7 ½ miles), its rate of flow is slow, while its terminal face is at an altitude of somewhat over 2,000 ft. On the western slope of the range, owing to the greater snow precipitation, the glaciers are more numerous and descend to lower levels, while the steeper slope gives them a more rapid rate of flow. The two largest of these are the Fox and the Franz Josef, with lengths of 9 ¾ miles and 8 ½ miles respectively, and terminal faces at altitudes of 670 ft. and 690 ft.

As will be realized, these glaciers are an important tourist attraction, and as such have definite economic significance. Moreover, those glaciers on the eastern slopes which feed rivers utilized for irrigation and hydro-electric purposes are valuable in that they help to ensure a steady volume of water throughout the year.

Rivers.—Of the numerous New Zealand rivers few are of sufficient length or volume to be navigable. Moreover, owing to the high relief of the country, they are mostly swift-flowing, while, as mentioned previously, nearly all are obstructed at their mouths by bars. For the purpose of internal communication, therefore, they are of little economic utility, and only in two or three isolated instances have they been thus consistently used. With improved roading conditions, however, their traffic has become negligible even in these cases.

As sources of hydro-electric power New Zealand rivers are of considerable importance, since their rapid rate of flow and dependable volume of ice-free water make them eminently suitable for this purpose. At the present time the Waikato and the Mangahao in the North Island and the Waitaki, Cobb, and Waipori in the South are used for major hydro-electric schemes, and a further major development is now being undertaken on the Clutha. The characteristics just mentioned are also important for purposes of irrigation, but, owing to the country's reliable rainfall, there are few areas other than in Canterbury and Otago where the rivers are so utilized.

In the 1932 Year-Book appears an account of the rivers of New Zealand, but space in this issue is, however, available only for a list of the more important ones. The lengths of rivers shown have been recently revised and differ in many instances from those previously given. For purposes of uniformity, the length of a river is taken to be the distance from the mouth to the farthest point in the system whether this should happen to bear the same name or that of an affluent, and is inclusive of the estimated course of a river flowing into and emerging from any lake in the system.

NORTH ISLAND

<i>Flowing into the Pacific Ocean—</i>	Miles
Pikao	65
Waikou (or Thames)	95
Rangitiki	95

<i>Flowing into the Pacific Ocean—</i>	Miles
Whakatane	65
Waipao (from source Mata River)	75
Waipaoa (from source Waipapa Stream)	70
Waiooa (from source Hangaroa River)	85
Mohaka (from source Taharua River)	95
Ngaruroro	90
Tukituki	70
<i>Flowing into Cook Strait—</i>	
Ruamahanga	90
Hutt	35
Otaki	30
Manawatu	120
Rangitikei	130
Turakina	70
Wangaehu	100
Wanganui	180
Waitotara	55
Patea	75
<i>Flowing into the Tasman Sea—</i>	
Waitara	85
Mokau	85
Waikato (from source Upper Waikato River)	270
Waiooa (from source Waioitu Stream)	115
Hokianga (from source Waihou River)	45

SOUTH ISLAND

<i>Flowing into Cook Strait—</i>	Miles
Aotere (from source Spec River)	45
Takaka (from source Cobb River)	45
Motueka	70
Waimea (from source Wai-titi River)	30
Pelorus	40
Wairau	105
Awatere	70
<i>Flowing into the Pacific Ocean—</i>	
Clarence	130
Coromandel	30
Waiau-whia (or Waiau)	105
Harouni	90
Waipara	40
Ashley	60
Waimakariri	100
Selwyn	50
Rakaia	90
Ashburton	70
Rangitata (from source Clyde River)	75
Ophi	50
Pareora	35
Waihaio	45
Waitaki (from source Hopkins River)	135
Kakanui	40
Shag	45
Taieri	175
Clutha (from source Makarora River)	210
<i>Flowing into Foveaux Strait—</i>	
Mataura	140
Oreti	120
Aparima (Jacobs River)	70
Waiau (from source Clinton River)	135
<i>Flowing into the Tasman Sea—</i>	
Hollyford	50
Cascade	40
Arawhata	45
Haast	60
Karangarua	25
Cook	25
Waiho (from source Callery River)	20
Whataroa	35
Wanganui	35
Waiwaha	25
Hokitika	40
Ararua	35
Taramakau	50
Grey	75
Buller (from source Travers River)	110
Mokihinui	35
Karamoa	50
Heaphy	25

The discovery in 1861 that the beds of numerous rivers in the South Island contained extensive deposits of alluvial gold was of considerable importance in the economic development of the country. Not only did it lead to an increase in population and in wealth, but, through the following of the numerous streams to their sources, it also led to the rapid exploration of large tracts of remote country. The exploitation of these deposits has been carried on

with varying degrees of success up to the present time by both manual and mechanical means.

A further factor in connection with the rivers is that, owing to the very successful acclimatization of fresh-water fish, notably trout, many of them now provide exceptionally fine fishing.

Lakes.—In considering New Zealand's numerous lakes a distinction can be made, especially from the scenic viewpoint, between the lakes of the two Islands. Surrounded by extremely rugged country the larger lakes of the South Island are distinguished by the grandeur of their alpine settings, while those of the North Island, situated on a volcanic plateau, are of interest by reason of the neighbouring thermal activity. Owing to the excellence of their fishing, the North Island lakes possess an added tourist attraction. In both Islands the larger lakes are situated at high altitudes, and their consequent remoteness renders them unsuitable as a means of communication. In their functions as reservoirs the lakes of both Islands are of vital importance for the maintenance of the streams draining them and as a means of flood prevention. More especially is this the case where hydro-electric schemes are involved. Lakes Waikaremoana and Taupo in the North Island, and Lakes Coleridge, Pukaki, Tekapo, Wanaka, Hawea, and Wakatipu in the South Island, being of particular significance in this respect.

An article on the lakes of New Zealand will be found in the 1932 Year-Book. Some particulars of the more important are given in the following table.

Lake	Length, in Miles	Greatest Breadth, in Miles	Area, in Square Miles	Drainage Area, in Square Miles	Approximate Volume of Discharge, in Cubic Feet Per Second	Height Above Sea Level, in Feet	Greatest Depth, in Feet
NORTH ISLAND							
Taupo	25	17	238	1,250	5,000	1,211	534
Rotorua	7½	6	32	158	420	915	84
Rotoiti	10½	2½	14	26	500	913	230
Tarawera	6½	6½	15	75		1,032	285
Waikaremoana	12	6¼	21	128	772	2,015	846
Wairarapa	10	4	27				64
SOUTH ISLAND							
Rotoiti	5	2	2¼	86		1,997	228
Rotorua	7	2½	8	146		1,470	
Brunner	5	4	16	145		280	357
Kaniere	5	1¾	8	11		422	646
Coleridge	11	3	18	70		1,667	680
Tekapo	12	4	32	580	5,000	2,323	620
Pukaki	10	5	31	515	6,000	1,588	
Ohau	10	3	23	424	5,000	1,720	
Hawea	20	5	48	518	5,700	1,062	
Wanaka	30	4	75	960		922	
Wakatipu	52	3	112	1,162	13,000	1,016	1,242
Tu Anau	33	6	132	1,320	12,660	694	906
Manapouri	12	6	56	416		596	1,458
Monowai	12	1	12	51	700	600	
Huroko	20	3	25	195	1,800	611	
Poteriteri	17	2	17	162		96	
Waiohā	4½	1¾	3¾	2,200		(Tidal)	52
Ellesmere	16	10	107½	745		(Tidal)	45

GEOLOGY.—An article on the geology of New Zealand prepared by Dr. J. Henderson, M.A., F.R.S.N.Z., former Director of the Geological Survey, is contained in the 1940 and earlier editions of the Year-Book. For more detailed information the reader is referred to the treatises of Professors Park and Marshall, the bulletins of the Geological Survey, and the many papers that have appeared in the "Transactions of the New Zealand Institute" (now the Royal Society of New Zealand).

EARTHQUAKES.—An article on earthquakes in New Zealand appeared in the 1942 and earlier issues of the Year-Book. The information given below has been supplied by Mr. R. C. Hayes, Director of the Seismological Observatory.

Seismicity and Earthquake Distribution.—A comparison between the records of destructive earthquakes in New Zealand and those in other seismic countries shows that the seismicity of New Zealand, on the whole, is surprisingly high. However, this is due to the occurrence of a large number of earthquakes of the semi-destructive type (M.-M. 7) with comparatively few major destructive shocks (M.-M. 8-12).

During the period 1835-1953, 80 destructive earthquakes are known to have occurred in New Zealand, 60 of which were of the semi-destructive type (not exceeding intensity M.-M. 7). Of the remainder, 14 were of intensity M.-M. 8-9 and 6 of intensity M.-M. 10-12.

The total number of earthquakes of all intensities, and the maximum intensity, reported felt in New Zealand in each of the years 1922 to 1953 were as follows.

Year	Number of Earthquakes Reported Felt	Maximum Intensity of Heaviest Shock	
		R.-F. Scale	M.-M.* Scale
1922	1,187	8	7
1923	76	6	5-6
1924	70	7	6-7
1925	76	8	7
1926	173	8	7
1927	107	8	7
1928	80	8	7
1929	678	10	10
1930	748	8	7
1931	432	10	10
1932	313	9	8+
1933	108	7	6-7
1934	230	9	8+
1935	150	7	6-7
1936	123	6	5-6
1937	179	6-7	6
1938	132	8	7
1939	157	7	6-7
1940	120	7	6-7
1941	107	8	7
1942	198	9+	9
1943	176	8	7
1944	95	6	5+
1945	127	7	6+
1946	302	8	7
1947	233	8+	7+
1948	127	8+	8
1949	97	6-7	6
1950	188	7	6-7

* Modified Mercalli Scale of 1931, which is now used for recording earthquake effects in New Zealand.

Year	Number of Earthquakes Reported Felt	Maximum Intensity of Heaviest Shock	
		R.-F. Scale	M.-M.* Scale
1951	226	8	7-8
1952	83	6-7	6
1953	133	8	7

* Modified Mercalli Scale of 1931, which is now used for recording earthquake effects in New Zealand.

The abnormally large number of earthquakes reported in the year 1922 was due to the swarm of local shocks in the Taupo region in the latter half of that year. Abnormally large numbers of shocks also occurred in 1929-30, due to aftershocks of the Buller earthquake of 17 June 1929.

Summary of Seismic Activity in New Zealand in 1952.—During 1952 earthquake activity was comparatively low and still showed signs of decreasing at the end of the year. There were no outstanding seismic disturbances. Early in the year several shocks originated at considerable depth beneath the region north and north-west of Lake Taupo. Activity was more or less continuous in various parts of Hawke's Bay region. The largest shock, which occurred on 28 August, was centred near the coast of southern Hawke's Bay and reached instrumental magnitude near 6. It was felt over most of the southern part of the North Island with maximum intensity M.-M. 6 in the Havelock North area. Several other shocks during the year reached felt intensity M.-M. 5 in southern Hawke's Bay. Some earthquakes originated off the west coast of the South Island between Cape Foulwind and Milford Sound, a region which is generally almost inactive. The strongest shock of this series occurred on 3 November, and reached intensity M.-M. 5 in the Hokitika area. On 14 September a shock in Marlborough Sounds reached intensity near M.-M. 6 in the vicinity of Pion. During August a series of small very local shocks was recorded by the Wood-Anderson seismograph at Karapiro, the strongest ones being felt slightly in the surrounding region. It is thought that they probably originated in the Morrinsville-Matamata area, where there have been occasional outbreaks of earthquake swarms in the past.

During the year 83 shocks were reported felt in New Zealand: 64 in the North Island and 26 in the South Island. Seven were felt in some part of both Islands.

Summary of Seismic Activity in New Zealand in 1953.—Earthquake activity in 1953 was rather higher than in the previous year and there were several abnormal seismic disturbances. On 24 March an unusually deep focus earthquake occurred with epicentre in North Taranaki. The depth of the origin was near 570 km. (354 miles), as compared with 370 km. (230 miles), the greatest depth previously recorded for earthquake activity in the New Zealand region. This shock was not felt, mainly on account of its very deep origin. During the latter half of June an earthquake swarm was experienced at Great Barrier Island. These disturbances were of very shallow origin and appeared to be more marked in the northern part of the Island. A large number of shocks occurred, but none appear to have exceeded intensity M.-M. 4. Local earthquakes are very infrequent in the region of Great Barrier Island. On 29 September a strong shock originated in the Bay of Plenty at a depth of about 300 km. (186 miles). The instrumental magnitude (7-7¼) was abnormally high for shocks at that depth and in consequence it was felt over a very large area, from the Coromandel Peninsula to Westland and north Otago. The maximum felt intensity (M.-M. 7) occurred in the East Cape Peninsula, where considerable minor damage resulted. As is usual in deep-seated shocks, the distribution of felt intensity was irregular. A shock with shallow origin on 4 July also reached intensity M.-M. 7 in the Tokiāns region, causing some minor damage. The perceptible area of this shock was comparatively small, being confined to the central and western parts of the North Island. On 18 October an earthquake originating some distance north of Taranaki affected a considerable area of the North Island from near Helensville to Wanganui. It was felt in most of the Auckland area, Waikato, King Country, and Taranaki, with maximum intensity M.-M. 5 in coastal regions from about Kawhia to New Plymouth. Strong shocks in this region are very infrequent, but a few have occurred during the past hundred years. Other shocks during the year reached intensity M.-M. 5 at Waitara on 12 January, Te Teko on 14 January, Porangahau on 7 April, Otaki and Farewell Spit on 11 April, and Waipawa on 29 October. In all, 133 shocks were reported felt in New Zealand during the year, 114 in the North Island and 24 in the South Island. Five of these shocks were felt in some part of both Islands.

Regional Distribution.—New Zealand earthquake statistics over the past hundred years or so show that certain parts of the country are subject to almost continuous seismic activity with occasional destructive shocks, while other parts are more or less free from seismic disturbances. By combining early earthquake records with the more precise data of later years it is possible to divide the country roughly into four seismic regions. These regions are classified below in order of seismicity.

- I. All areas of the North Island east and south of an approximate line from the vicinity of Whakatane in the Bay of Plenty to the vicinity of Hawera in South Taranaki, and all areas of the South Island north of an approximate line from the vicinity of Hokitika on the West Coast, through the region of Lake Coleridge, to Banks Peninsula.
- II. South Auckland, western Bay of Plenty, Waikato, and Taranaki (except the southern portion).
- III. Areas of the South Island, south of the boundary of region I.
- IV. Areas north of Auckland.

The following table shows the average frequency of earthquakes in each of the four regions defined above.

Region	Average Number of Earthquakes Per Year (1921-1940)	Average Number of Destructive Shocks Per Decade (1835-1940)		Relative Seismicity Based on Destructive Shocks
		Minor Shocks (R.-F. 5)	Major Shocks (R.-F. 9, 10)	
I	97.8	4.1	1.7	11.5
II	23.0	1.1		1.1
III	12.1	0.1		0.1
IV	1.1			0.0

The boundaries between the seismic regions are not well defined, since one region generally merges more or less imperceptibly into another. Further, seismic frequency is not uniform. This leads to the number of shocks being considerably above the average in some years and below it in others. The normal irregularity is increased by the occasional occurrence of earthquake swarms in certain regions. Probably the most notable swarm in New Zealand was that which occurred in the Taupo region in the latter half of 1922. The number of minor local shocks in this swarm was so great that only the stronger ones, or those affecting the adjacent region, were used in determining the average frequency of region I. Major earthquakes occur chiefly in the eastern and southern parts of region I.

Deaths Due to Earthquakes.—During the period 1848-1953 the number of deaths recorded in New Zealand as due directly or indirectly to earthquakes was 284. Of these, 255 were due to the Hawke's Bay earthquake of 3 February 1931.

CLIMATE.—The collection of climatic data for the use of Government Departments and the general public is a function of the New Zealand Meteorological Service. It maintains approximately 130 stations within New Zealand and 35 on islands of the South West Pacific for the recording of full climatic data, supplemented by approximately 950 stations in New Zealand and 130 in the Pacific Islands recording rainfall. Most of these stations are operated by public bodies, Government Departments, or voluntary observers. Additional records are provided by a hundred stations which report by telegraph or radio for forecasting purposes.

A general description of the climate of New Zealand is contained in an article supplied by Dr. M. A. F. Barnett, O.B.E., M.Sc., Ph.D., F.Inst.P., Director of the New Zealand Meteorological Service, which was included in the 1942 and earlier editions of the Year-Book.

Detailed climatological statistics are published annually in the *Meteorological Observations*. Work on this publication ceased during the war years, and this has delayed the appearance of recent issues, the latest available being that for 1948. Current statistics appear monthly in a climatological table included in the *New Zealand Gazette*.

The following table provides a brief summary of the main climatological elements for selected locations.

CLIMATOLOGICAL AVERAGES (OVER A PERIOD OF YEARS)

Station	Altitude	Average Annual Rainfall*	Average Number of Rain Days	Average Bright Sunshine	Temperature in Shade, Degrees Fahrenheit					
					Mean Daily Maximum		Mean Daily Minimum		Mean Daily Range	
					Jan.	July	Jan.	July	Jan.	July
	Ft.	In.		Hrs.						
Te Pahi, Te Hapua	200	56.71	169	2,169	72.8	59.2	65.9	57.0	45.9	52.0
Auckland	160	48.80	182	2,059	72.8	56.7	64.9	60.0	46.1	53.2
Tauranga	10	53.42	152	2,376	74.5	57.4	66.1	54.7	40.1	47.6
Hamilton East	131	45.95	161	2,056	74.6†	55.9†	65.5†	51.7†	37.1†	44.7†
Rotorua	969	54.44	145	2,061	74.3†	53.6†	63.6†	51.3†	36.9†	44.5†
Gisborne	12	39.75	147	2,284	76.2	56.3	66.4	54.3	40.0	47.6
Onekopo, Lake Waikaremoana	2,100	76.90	183		68.1	47.6	58.0	52.0	37.7	45.0
New Plymouth	160	61.16	186	2,211	69.1	54.8	62.2	55.2	42.9	49.3
Napier	5	61.39	114	2,406	73.9	55.1	64.8	57.0	39.4	48.7
Tairāpe	2,157	36.93	179	68.2	47.2	57.9	50.1	36.1	43.2	
Wanganui	72	34.32	155	2,182	71.0	54.2	63.0	55.9	41.0	48.9
Plant Research Bureau, Palmerston North	110	39.05	170	1,839	70.5	53.1	62.2	54.3	39.1	46.9
Waipawa, Masterton	340	38.01	142	2,091	74.3	53.3	63.7	50.5	35.8	43.4
Wellington	415	47.47	166	2,045	67.6	51.2	59.8	54.4	41.5	48.3
Nelson	24	38.63	116	2,490	71.2	54.2	63.0	54.5	37.1	46.1
Blenheim	17	25.84	110	2,449	73.0†	53.5†	64.0†	53.2†	35.6†	44.9†

* Rainfall averages refer to standard period 1921-1950.

† Normals relate to present site.

The population used as the basis in obtaining the quota for each European electoral district is the total population as disclosed by the census, with the following exceptions:

- a. Maoris:
- b. Persons detained in mental institutions:
- c. Persons detained in prisons:
- d. Persons on board ship:
- e. Temporary guests in licensed hotels:
- f. Persons residing temporarily in military, &c., camps:
- g. Patients in public hospitals.

Provision exists for an allowance by way of addition or subtraction of 7½ per cent of the total population where districts containing the exact quota could not be formed consistently with consideration of topography, community of interest, communications, and existing electoral boundaries.

These provisions, which differ considerably from those previously in force, are contained in the Electoral Amendment Act 1950. This Act also provided that all general elections and by-elections shall be held on a Saturday and for both European and Maori elections to be held on the same day. Previously the Maori elections were held on the day preceding the European elections. An amendment in 1951 provides for the polling hours in Maori electorates to be extended to 7 p.m., as in the case of European electorates.

The Electoral Amendment Act 1951 provided that, if at any time Parliament is dissolved before it has been two years in existence, the general and supplementary rolls used in the previous general election, together with a further supplementary roll, may be used if in the opinion of the Chief Electoral Officer it is impracticable to print new general rolls. The same rolls, together with a further supplementary roll, are to be used for any by-election occurring before the next following general election.

The latter amending Act also provides for the voting at elections and licensing polls by servicemen serving overseas who are or will be of, or over the age of, twenty-one years before the date of the election or poll, whether or not registered as electors of any electoral district. Each such serviceman shall be qualified to vote as an elector of the electoral district in which is situated his usual place of residence before he last left New Zealand.

FRANCHISE.—Since the abolition of plural voting in 1889 and the introduction of women's suffrage in 1893 every person twenty-one years of age or over has had the right to exercise a vote in the election of members for the House of Representatives. To be registered as an elector a person must have resided for one year in New Zealand, and for three months in the electoral district for which he claims to vote. A system of compulsory registration of electors was introduced at the end of 1923, but for Maori electors a Proclamation was necessary before registration became operative. The Electoral Amendment Act 1948, however, provided for the preparation of rolls for Maori electoral districts, which, subject to and after notification in the *Gazette* that these rolls have been formed, shall be for all purposes the electoral rolls of the districts concerned.

There are, of course, slight exceptions to the foregoing, for, if a person is classified as one of the following, he or she is not entitled to register as an elector or to vote:

An alien:

A mentally defective person:

A person convicted of an offence punishable by death or by imprisonment for one year or upwards within any part of Her Majesty's dominions, or convicted in New Zealand as a public defaulter, or under the Police Offences Act 1927 as an idle and disorderly person or as a rogue and vagabond, unless such offender has received a free pardon, or has undergone the sentence or punishment to which he was adjudged for such offence.

The Electoral Emergency Regulations 1943 prescribed the following additional classes of persons who were not entitled to be registered as electors or to vote:

A person who was committed to military defaulters' detention and had not been discharged therefrom:

A person who was taken into custody under the Aliens Emergency Regulations 1940 and had not been released therefrom.

Maoris are qualified to vote only at elections of the four members representing the Maori race. A Maori half-caste is entitled to be registered either as an elector of a Maori or a European electoral district, while special provisions govern any changeover of registration.

By the Electoral Amendment Act 1937, which made provision for a secret ballot in Maori elections, Maori electors were granted the same privileges, in the exercise of their vote, as European electors.

For the system of local-government administration a modified form of franchise exists, a ratepaying qualification being necessary for the exercising of votes on financial issues. Further reference to this aspect of franchise will be found in Section 31 of this Year-Book.

Chapter 3. SECTION 3—POPULATION

Table of Contents

GENERAL REVIEW.—A population census was taken as for the night of Tuesday, 17 April 1951, in New Zealand, while censuses of its island territories were conducted by the Department of Island Territories for the night of Tuesday, 25 September 1951.

The *minor* islands (see page 2), other than the Kermadec Islands and Campbell Island, were uninhabited at the date of the census, as was also the Ross Dependency, situated in Antarctic regions.

The 1951 census population of geographic New Zealand (i.e., excluding Island Territories) was 1,939,472, inclusive of 115,676 Maoris.

For the Island Territories 1951 census figures were: Cook Islands and Niue Island, 19,632; Tokelau Islands, 1,580; Trust Territory of Western Samoa, 83,096. The total census population of New Zealand and Island Territories was 2,043,780. Armed Forces personnel overseas at the time of the census and not included in the population numbered 1,894 (Europeans 1,830, Maoris 64).

The figures contained in the following summary are the latest available.

	Date	Males	Females	Totals
New Zealand—				
(a) Exclusive of Island Territories—				
Europeans	30 September 1953	972,261	963,301	1,935,562
Maoris	30 September 1953	63,982	61,136	125,118
Totals, New Zealand (excluding Island territories)	30 September 1953	1,036,243	1,024,437	*2,060,680
(b) Island Territories—				
Tokelau Islands	31 March 1953	785	886	1,671
Cook Islands	31 March 1953	7,963	7,380	15,343
Niue Island	31 March 1953	2,224	2,389	4,613
Totals, New Zealand (including Island territories)		1,047,215	1,035,092	*2,082,307
Trust Territory of Western Samoa	25 September 1951	43,790	41,110	84,900

* Includes population of the inhabited *minor* islands—i.e., Kermadec Islands, 14 (males); and Campbell Island, 5 (males).

INCREASE OF POPULATION.—Since the commencement of European settlement in New Zealand the European population has in every year shown an increase, though the rate of increase has fluctuated considerably. As will be seen later in this section, the movement of Maori population has followed a different course. Census records for the last half-century are quoted in the succeeding table and include Maoris.

Date of Census	Numbers	Intercessal Numerical Increase	Intercessal Percentage Increase	Average Annual Percentage Increase
March 1901*	815,853	72,646	9.77	1.89
April 1906	936,304	120,451	14.76	2.75
April 1911	1,058,308	122,004	13.03	2.52
October 1916*	1,149,225	90,917	8.59	1.50
April 1921	1,271,664	122,439	10.65	2.27
April 1926	1,408,139	136,475	10.73	2.06
March 1936	1,573,810	165,671	11.77	1.13

* Excludes New Zealand Armed Forces personnel overseas.

† Includes New Zealand Armed Forces personnel overseas.

Date of Census	Numbers	Intercessal Numerical Increase	Intercessal Percentage Increase	Average Annual Percentage Increase
September 1945†	1,702,298	128,488	8.16	0.83
September 1945†	1,747,679	173,869	11.05	1.11
April 1951*	1,939,472	257,174	13.93	2.37
April 1951†	1,941,366	193,687	11.08	1.91

* Excludes New Zealand Armed Forces personnel overseas.

† Includes New Zealand Armed Forces personnel overseas.

In no fewer than four of the nine censuses covered by the above table the figures are disturbed by the absence overseas of Armed Forces in time of war. Increase during the intercessal period preceding the census is thus diminished and in the period following is augmented by the return of such personnel or, more accurately and regrettably, the survivors. Numbers of Armed Forces personnel overseas at the respective dates were: 1901, 2,500 (approx.); 1916, 44,000 (approx.); 1945, 45,381; and 1951, 1,894.

It will be noted that the growth of population has been substantial in each period. The lowest rates are those of 1926–36, a result of the great economic depression, and of 1936–45, which included six years of war.

Omitting movements of army and air force personnel but including naval crews, post-war increases in population have been—

	Numbers	Per Cent
1946	34,952	2.02
1947	33,716	1.89
1948	33,710	1.85
1949	38,363	2.07
1950	36,678	1.94
1951	43,392	2.25
1952	53,913	2.74
1953 (9 months)	36,157	1.79*
Total	310,861	
* 2.39 for a full year.		

If the numbers of the first three quarters of 1953 are maintained in the fourth quarter, the year's gain will be slightly less than the gain for 1952, which was the highest in the history of New Zealand.

Sources of population increase are threefold—viz., enlargement of territory, excess of arrivals over departures, and excess of births over deaths or natural increase. The first is inapplicable to New Zealand, the second is dealt with later in this section, and the third is discussed in the section relating to vital statistics. One aspect of the latter may, however, be given here. This is the reproduction index which, though not free from error, is a convenient indication of the growth or decline of a population. It is based on female children born (gross rate) and probably surviving to maturity (net rate). A net rate of 1.0 indicates a stationary population; above unity a rising population and below unity a falling population.

Reproduction rates during the last three years were as follows, the figures relating only to the European population.

Year	Gross Rate	Net Rate
1950	1.650	1.587
1951	1.640	1.578
1952	1.717	1.652

A cautious observation may be appended here. Though the total increase of population is the sum of natural increase and migration increase, certain discrepancies may be noted. The reason is that, following the census, revisions have been made to statistics of total population, but it has not been possible to make corresponding adjustments to migration or natural increase figures.

POPULATION PROJECTION.—It is of interest to note that New Zealand reached its first million of population in December 1908 and the second million in August 1952, the population thus having doubled in approximately 43½ years.

Interest in the future population of New Zealand was such that it was obvious there was a real need for up-to-date forecasts. However, to produce forecasts of real value, considerable work is involved in making careful studies of trends in fertility, mortality, immigration, etc. To meet the needs of those wishing to make estimates based on probable future changes in population, the following provisional projections have been made for the total population, inclusive of Maoris. These are based on two assumptions:

1. That the annual rate of natural increase will be 15 per thousand persons living.
2. That the net inflow due to migration will be 10,000 persons per annum.

MEAN POPULATION FOR TWELVE MONTHS ENDING 31 MARCH (INCLUDING MAORIS)

Year	Estimated Population	Year	Estimated Population	Year	Estimated Population	Year	Estimated Population
	(000)		(000)		(000)		(000)
1953	2,010	1965	2,533	1977	3,159	1989	3,907
1954	2,050	1966	2,581	1978	3,216	1990	3,976
1955	2,090	1967	2,630	1979	3,275	1991	4,046
1956	2,132	1968	2,679	1980	3,334	1992	4,116
1957	2,174	1969	2,729	1981	3,394	1993	4,188
1958	2,216	1970	2,780	1982	3,455	1994	4,261
1959	2,260	1971	2,832	1983	3,516	1995	4,335
1960	2,303	1972	2,884	1984	3,579	1996	4,410
1961	2,348	1973	2,938	1985	3,643	1997	4,486
1962	2,393	1974	2,992	1986	3,707	1998	4,563
1963	2,439	1975	3,047	1987	3,773	1999	4,642
1964	2,486	1976	3,102	1988	3,840	2000	4,721

It should be remembered that while these figures give a reliable indication of what will happen if the assumptions given above are realized, the sex and age groupings for the total population was not available at the time of writing. A compilation has however been made for the non-Maori population, and details are given under the next heading. Maori life tables are now being compiled and, when these are completed, it will be possible to prepare similar projections for the Maori section of the population. Meantime, it is not advisable to try to estimate future Maori population by deducting one projection from the other.

NOTE.—Projections by age-groups for the total and the Maori population have since become available; refer to latest statistical information.

European Population Projection by Age Groups.—In preparing the projection of the non-Maori population to December 1957 and December 1962, chances of survival for the existing population, for net immigration, and for births have been calculated from the 1950–52 life tables for non-Maori lives.

Three alternative assumptions are made with regard to immigration:

- a. A net inflow of 10,000 per annum.
- b. A net inflow of 5,000 per annum.
- c. Immigration balances immigration.

In each case the age and sex distribution of the net inflow have been assumed to be the same as for the period 1934–53. During the last five years the net inflow has averaged 11,527 per annum, but over the last twenty years the average has been 4,005.

Expected births have been calculated with reference to the average number of women of child-bearing age, using average annual birth rates for the period 1949–52.

It should be stressed that population projections are not predictions of what the population will be at any given time. They merely show what would be the effect on the existing population of certain stated assumptions, without implying that those assumptions will necessarily be realized. Anyone who wishes to predict the population should therefore examine not only the figures given but also the validity of the assumptions, and the likelihood that they

will continue to apply in the future.

NON-MAORI POPULATION PROJECTION

Age Groups	December 1957			December 1962		
	Males	Females	Total	Males	Females	Total
<i>(a) Assuming 10,000 Per Annum Net Inflow from Immigration</i>						
Under 5 years	115,000	109,100	224,100	119,000	112,900	231,900
5 and under 10 years	112,850	107,800	220,650	116,150	110,250	226,400
10 and under 15 years	96,800	92,600	189,400	114,450	109,250	223,700
15 and under 20 years	78,750	75,850	154,600	98,150	93,750	191,900
20 and under 25 years	65,300	61,650	126,950	81,750	77,350	159,100
25 and under 30 years	71,800	65,350	137,150	70,400	63,900	134,300
30 and under 35 years	76,900	70,700	147,600	75,950	67,650	143,600
35 and under 40 years	70,950	70,600	141,550	79,350	72,500	151,850
40 and under 45 years	67,450	68,000	135,450	72,250	71,500	143,750
45 and under 50 years	65,400	63,500	128,900	67,550	68,000	135,550
50 and under 55 years	57,200	54,950	112,150	64,000	62,550	126,550
55 and under 60 years	47,550	47,500	95,050	54,350	53,150	107,500
60 and under 65 years	36,050	40,900	76,950	43,450	44,900	88,350
65 years and over	88,800	105,900	194,700	89,400	112,700	202,100
Totals	1,050,800	1,034,400	2,085,200	1,146,200	1,120,350	2,266,550

<i>(b) Assuming 5,000 Per Annum Net Inflow from Immigration</i>						
Under 5 years	113,600	107,750	221,350	115,800	109,850	225,650
5 and under 10 years	111,800	106,950	218,750	113,750	108,050	221,800
10 and under 15 years	95,800	91,800	187,600	112,450	107,600	220,050
15 and under 20 years	77,850	75,200	153,050	96,250	92,250	188,500
20 and under 25 years	63,500	60,750	124,250	79,050	75,800	154,850
25 and under 30 years	69,000	64,100	133,100	68,800	61,750	127,550
30 and under 35 years	74,550	69,400	143,950	70,850	65,100	135,950
35 and under 40 years	69,350	69,450	138,800	75,400	70,050	145,450
40 and under 45 years	66,350	67,150	133,500	69,550	69,550	139,100
45 and under 50 years	64,650	62,950	127,600	65,700	66,600	132,300
50 and under 55 years	56,750	54,600	111,350	62,850	61,650	124,500
55 and under 60 years	47,300	47,300	94,600	53,650	52,600	106,250
60 and under 65 years	35,900	40,700	76,600	43,100	44,550	87,650
65 years and over	88,600	105,400	194,000	89,050	111,700	200,750
Totals	1,035,000	1,023,500	2,058,500	1,113,250	1,097,100	2,210,350

<i>(c) Assuming no Net Inflow from Immigration</i>						
Under 5 years	112,200	106,400	218,600	112,600	106,800	219,400
5 and under 10 years	110,800	106,100	216,900	111,350	105,850	217,200
10 and under 15 years	94,800	91,000	185,800	110,500	105,900	216,400
15 and under 20 years	76,950	74,500	151,450	94,350	90,750	185,100
20 and under 25 years	61,700	59,900	121,600	76,350	74,250	150,600
25 and under 30 years	66,200	62,850	129,050	61,200	59,650	120,850
30 and under 35 years	72,200	68,050	140,250	65,700	62,500	128,200
35 and under 40 years	67,750	68,300	136,050	71,450	67,600	139,050
40 and under 45 years	65,200	66,300	131,500	66,800	67,600	134,400
45 and under 50 years	63,950	62,400	126,350	63,850	65,200	129,050
50 and under 55 years	56,300	54,250	110,550	61,700	60,750	122,450
55 and under 60 years	47,050	47,100	94,150	53,000	52,050	105,050
60 and under 65 years	35,800	40,500	76,300	42,750	44,150	86,900
65 years and over	88,400	104,950	193,350	88,600	110,800	199,400
Totals	1,019,300	1,012,600	2,031,900	1,080,200	1,073,850	2,154,050

COMPARISON WITH OTHER COUNTRIES.—In the following summary of certain selected countries the two most recent census years are quoted together with the annual average percentage increase of population during the respective inter-censal periods.

Country	Census Period	Average Annual Percentage Increase
New Zealand	1945-51	2.37
England and Wales	1931-51	0.46
Scotland	1931-51	0.26
Northern Ireland	1937-51	0.48
Austria	1939-51	0.33
Denmark	1945-50	1.04
Finland	1940-50	0.82
France	1936-46	-0.34
Hungary	1941-49	-0.15
Republic of Ireland	1946-51	0.03
Netherlands	1930-47	1.18
Portugal	1940-50	0.95
Sweden	1945-50	1.09
Switzerland	1941-50	1.12
Canada*	1941-51	1.72
Union of South Africa†	1946-51	2.06
India‡	1941-51	1.26

* Excluding Newfoundland.

† European population.

‡ Including Hyderabad, but excluding Kashmir, Jammu, and the tribal areas of Assam.

§ Excluding full-blooded aborigines.

NOTE.—Minus sign (–) denotes a decrease.

Country	Census Period	Average Annual Percentage Increase
Pakistan	1941-51	0.75
Ceylon	1931-46	1.51
Australia§	1933-47	0.96
United States of America	1940-50	1.36

* Excluding Newfoundland.

† European population.

‡ Including Hyderabad, but excluding Kashmir, Jammu, and the tribal areas of Assam.

§ Excluding full-blooded aborigines.

NOTE.—Minus sign (–) denotes a decrease.

The outstanding feature of the above table is the position occupied by New Zealand, with an annual rate of increase of 2.37 per cent. This would, however, be reduced to 1.91 per cent if members of the Armed Forces who were overseas in 1945 and 1951 were added to the New Zealand totals at the census dates and not regarded as population gains in the inter-censal period.

The Commonwealth countries, Union of South Africa (206 percent), Canada (1.72 percent), and Ceylon (1.51 per cent), show the next highest rates of increase. On the other hand, European countries show the lowest rates of increase—France and Hungary actually show decreases—with the United Kingdom countries recording very low figures. The significance of the census dates, particularly in the case of Australia and the Union of South Africa, must not be overlooked. In Australia, for instance, the great bulk of its huge post-war immigration took place after the 1947 census.

SEX PROPORTIONS.—Latest (September 1953) available figures show that males outnumber females by 8,960 in the European population, 2,846 in the Maori population, and 11,806 in the total population. Females per 1,000 males were: European, 991; Maori, 956; total population, 989. Net increase of population from migration adds to the male preponderance, but the major source of population increase is the excess of births over deaths, and this results in a female preponderance. In the relatively near future it seems probable that females will outnumber males. Females per 1,000 males at the last four censuses have been—

1926	957
1936	970
1945	1044
1945 (including Armed Forces abroad)	991
1951	991
1951 (including Armed Forces abroad)	989

There are marked differences in the sex proportions of the population of different parts of New Zealand. The following observations relate to the census of 1951 and give the number of females per 1,000 males.

In the aggregate of cities and boroughs the ratio was 1,071; in town districts, 1,010; and in counties, 885. For the provincial districts ratios were—

Canterbury	1028
Otago (Otago portion)	1016
Hawke's Bay	1003
Wellington	999
Auckland	982
Marlborough	960
Taranaki	958
Otago (Southland portion)	951
Nelson	948
Westland	937

Female preponderance in towns does not appear to have a direct relation to the size of the towns. Of the fifteen urban areas which comprise the largest centres of population eight had ratios higher than the average for all cities and boroughs, but seven were below the average, and of these Hutt, fifth largest urban area, even had an excess of males.

New Plymouth	1119
Dunedin	1100
Timaru	1098
Gisborne	1089
Christchurch	1087
Napier	1085
Hastings	1083
Whangarei	1075
Palmerston North	1070
Invercargill	1062
Hamilton	1059
Nelson	1058
Auckland	1057
Wellington	1052
Hutt	991

METHOD OF COMPILATION.—In common with almost all countries, the chief instrument in compiling population data in New Zealand is the census, which in this country in normal times is taken quinquennially. The minutiae of the distribution of population, together with analyses of various population characteristics compiled from census data, will be found in the official publications compiled after each census.

The basis adopted for the census, and virtually throughout population statistics in New Zealand, is that of the population present, which may be defined as the population present at the place of enumeration at the time of the enumeration.

Inter-censal population statistics for New Zealand are statistics of record; those for lesser divisions such as provincial districts, counties, or boroughs are estimates.

All references to New Zealand relate solely to geographic New Zealand—i.e., Island Territories are omitted except in the first table where their inclusion is specifically stated. Though Cook Islands, Niue Island, and Tokelau Islands are constitutionally part of New Zealand, for geographical reasons they are administered separately.

Maoris are included in all population data unless the contrary is stated. Maori-Europeans who are in half or greater degree of Maori origin are included with Maoris. For some purposes the population dichotomy of European and Maori is necessary or desirable and "European" is used, conveniently if not altogether accurately, as referring to all population other than Maori, a usage long established in New Zealand.

INTERCENSAL RECORDS.—The inter-censal statements of total population, prepared from the records of vital statistics and of external migration, have been by virtue of the favourable position of New Zealand in this respect relatively accurate. Moderate discrepancies, however, are inevitable and, in the tables following, revisions have been made for figures subsequent to the 1945 census to conform with the 1951 census figures.

The following population figures exclude members of New Zealand Armed Forces who were overseas, and also members of the Armed Forces of other countries who were in New Zealand.

—	Population (Including Maoris) at End of Year		Increase During Year		Mean Population for Year	
	Males	Females	Totals	Numerical Per Cent		
<i>Years Ended 31 March</i>						
1943	789,400	844,694	1,634,094	-244*	-0.01†	1,640,191
1944	789,772	854,128	1,643,900	9,806	0.60	1,637,570
1945	814,470	865,502	1,679,972	36,072	2.19	1,664,585
1946	878,739	878,017	1,756,756	76,784	4.57	1,710,680

* Minus sign (–) signifies a decrease.

—	Population (Including Maoris) at End of Year			Increase During Year		Mean Population for Year
	Males	Females	Totals	Numerical	Per Cent	
1947	894,810	894,666	1,789,476	32,720	1.86	1,770,291
1948	915,359	912,666	1,828,025	38,549	2.15	1,807,611
1949	935,019	929,541	1,864,560	36,535	2.00	1,843,767
1950	955,427	947,456	1,902,883	38,323	2.06	1,881,317
1951	973,082	964,950	1,938,032	35,149	1.85	1,917,934
1952	997,468	987,262	1,984,730	46,698	2.41	1,958,729
1953	1,024,463	1,013,090	2,037,553	52,823	2.66	2,009,506
<i>Years Ended 31 December</i>						
1942	793,681	842,722	1,636,403	5,127	0.31	1,639,572
1943	790,842	851,199	1,642,041	5,638	0.34	1,635,635
1944	813,568	862,718	1,676,286	34,245	2.09	1,655,795
1945	855,494	872,323	1,727,817	51,531	3.07	1,694,641
1946	891,321	889,893	1,781,214	53,397	3.09	1,759,526
1947	910,055	907,398	1,817,453	36,239	2.03	1,798,262
1948	929,233	924,573	1,853,806	36,353	2.00	1,834,655
1949	949,443	942,599	1,892,042	38,236	2.06	1,871,748
1950	967,308	960,321	1,927,629	35,587	1.88	1,909,092
1951	989,513	981,009	1,970,522	42,893	2.23	1,947,529
1952	1,017,874	1,006,682	2,024,556	54,034	2.74	1,996,149

* Minus sign (-) signifies a decrease.

The figures given in the preceding table show the population inclusive of Maoris. The following table shows the population exclusive of Maoris.

—	Population (Excluding Maoris) at End of Year			Increase During Year		Mean Population for Year
	Males	Females	Totals	Numerical	Per Cent	
<i>Years Ended 31 March</i>						
1943	740,369	797,268	1,537,637	-3,021*	-0.20*	1,545,052
1944	739,744	805,297	1,545,041	7,404	0.48	1,539,978
1945	763,155	815,236	1,578,391	33,350	2.16	1,564,436
1946	826,877	828,967	1,655,844	77,453	4.91	1,610,193
1947	841,070	843,870	1,684,940	29,096	1.76	1,667,631
1948	860,419	860,538	1,720,957	36,017	2.14	1,701,873
1949	878,487	876,111	1,754,598	33,641	1.95	1,735,223
1950	897,618	892,710	1,790,328	35,730	2.04	1,770,130
1951	913,852	908,674	1,822,526	32,198	1.80	1,803,944
1952	936,338	929,104	1,865,442	42,916	2.35	1,841,332
1953	961,289	952,965	1,914,254	48,812	2.62	1,888,334
<i>Years Ended 31 December</i>						
1942	745,008	795,622	1,540,630	2,484	0.16	1,545,112
1943	741,045	802,741	1,543,786	3,156	0.20	1,538,651
1944	762,266	812,885	1,575,151	31,665	2.05	1,556,318
1945	804,809	823,548	1,628,357	52,906	3.36	1,593,898
1946	838,010	839,488	1,677,498	49,141	3.02	1,657,851
1947	855,480	855,640	1,711,120	33,622	2.00	1,693,168
1948	873,062	871,489	1,744,551	33,431	1.95	1,726,839
1949	891,991	888,237	1,780,228	35,677	2.05	1,761,204
1950	908,479	904,467	1,812,946	32,718	1.84	1,795,830
1951	928,879	923,337	1,852,216	39,270	2.17	1,831,058
1952	955,354	947,102	1,902,456	50,240	2.71	1,875,940

* Minus sign (-) signifies a decrease.

EXTERNAL MIGRATION.—Statistics of external migration have been recorded in New Zealand since 1860. Since 1 April 1921 they have been compiled from individual statements obtained from each person entering or leaving New Zealand.

Including crews of vessels, 121,471 persons from overseas arrived in New Zealand during the year ended 31 March 1953, which, compared with 1951-52, shows an increase of 9,412. During the same period 101,137 persons departed. This figure, compared with the corresponding one for 1951-52, shows an increase of 4,557.

In addition to the figures just quoted there were also 5,645 "through" passengers who called at a port of New Zealand *en route* to their destination.

The excess of total arrivals over total departures for 1952-53 was 20,334, compared with 15,479 during 1951-52. This is the highest figure for net immigration since 1879.

The numbers of arrivals and departures during the last eleven years are given in the table following. Crews of vessels, "through" passengers, tourists on cruising liners, and members of the Armed Forces, &c., have not been taken into account in this table.

Year Ended 31 March	Arrivals			Departures			Excess of Arrivals Over Departures
	Males	Females	Totals	Males	Females	Totals	
1943	1,890	1,243	3,133	1,382	1,210	2,592	541
1944	2,122	1,625	3,747	1,848	1,792	3,640	107
1945	3,667	3,540	7,207	3,112	3,077	6,189	1,018
1946	6,416	6,893	13,309	5,657	5,309	10,966	2,343
1947	12,682	12,676	25,358	11,417	10,903	22,320	3,038
1948	17,004	16,140	33,144	13,945	13,443	27,388	5,756
1949	18,646	17,300	35,946	15,837	15,928	31,765	4,181
1950	26,190	24,690	50,880	21,471	21,529	43,000	7,880
1951	28,309	26,335	54,644	23,411	23,711	47,122	7,522
1952	33,162	29,336	62,498	24,009	22,825	46,834	15,664
1953	35,574	30,666	66,240	22,399	21,809	44,208	22,032

The number of arrivals in 1952-53 was the highest in the history of New Zealand migration statistics. In 1951-52 the number of departures showed a slight decrease on the previous year, and this was continued in 1952-53, when there was a further drop of 2,626.

During the war years normal civilian movements overseas were largely restricted, but in post-war years immigration on an enhanced scale has been experienced. Had it not been for shipping difficulties and for the serious housing shortage there is little doubt that larger numbers would have been recorded.

In the eight-year period ending 31 March 1953 the net gain from passenger migration was 68,416, while if movement of crews is taken into account this is increased to 71,549.

Classes of Arrivals and Departures.—The following table gives an analysis of all classes of arrivals during the last five years, including "through" passengers, and crews. In classifying arrivals or departures as "permanent" the commonly used international rule is applied—i.e., residence or absence of one year or more.

—	1948-49	1949-50	1950-51	1951-52	1952-53
Immigrants intending permanent residence	11,387	17,701	18,234	24,927	29,005
New Zealand residents returning	12,840	18,463	19,976	20,426	18,570
Visitors—					
Tourists	7,828	10,768	12,183	12,325	13,309
On business	1,769	1,936	2,406	2,846	2,902
Theatrical, entertaining, etc.	700	1,117	634	582	785
Educational purposes	975	97	111	133	199
Others, officials, etc.		313	469	613	1,035
In transit	447	485	631	651	835
Through passengers	3,073	2,489	2,923	2,744	5,645
Crews	36,695	47,499	47,263	49,561	55,231
Totals	75,714	100,868	104,830	114,803	127,116

The succeeding table gives a similar analysis of departures.

—	1948-49	1949-50	1950-51	1951-52	1952-53
New Zealand residents departing—					
Permanently	6,679	6,886	7,788	7,300	6,271
Temporarily	13,566	20,106	21,371	21,090	18,315
Temporary residents departing	11,520	16,008	17,963	18,444	19,622
Through passengers	3,073	2,489	2,923	2,744	5,645
Crews	36,849	45,958	46,411	49,746	56,929
Totals	71,687	91,447	96,456	99,324	106,782

Ages.—The following table gives the age-distribution of immigrants and emigrants for the twelve months ended 31 March 1953.

Age, in Years	Permanent Arrivals		Permanent Departures		Excess of Arrivals Over Departures		
	Males	Females	Males	Females			
0-14	2,572	2,347	4,919	540	477	1,017	3,902
15-24	4,520	2,792	7,312	667	742	1,409	5,903
25-34	5,182	3,591	8,773	824	989	1,813	6,960
35-44	2,134	1,835	3,969	371	440	811	3,158
45-59	1,266	1,428	2,694	260	387	647	2,047
60 and over	450	787	1,237	202	365	567	670
Unspecified	51	50	101	1	6	7	94
Totals	16,175	12,830	29,005	2,865	3,406	6,271	22,734

Of the permanent arrivals during the year 1952-53, 17 per cent were under fifteen years of age, 42 per cent under twenty-five years, 73 per cent under thirty-five years, and 86 per cent under forty-five years. Permanent departures represented a similar age distribution with percentages of 16, 39, 68, and 81 respectively.

Origin.—The great majority of immigrants to New Zealand have always come from the British Isles. During the immigration boom of the "seventies" several shiploads of immigrants from Baltic countries arrived under Government auspices. With this exception, systems of Government-assisted passages to immigrants have been until recently confined to immigrants from the United Kingdom. Conditions arising out of the recent war have brought changes, and systems of Government aid have been devised for immigrants from other countries. These conditions have also stimulated independent migration, apart from that governmentally aided. It is therefore of some interest to survey briefly the net gain of population in the post-war years.

The next table gives the excess of overseas arrivals over departures for the eight years 1945-46 to 1952-53. The basis of "permanent" arrivals and "permanent" departures has not been used; this is founded on intention, and intentions, particularly in existing times, are subject to change. Instead the table covers total arrivals and total departures less (a) permanent of New Zealand birth and (6) New Zealand residents of overseas origin returning after an absence of less than a year or departing for a period of less than a year. Included, it will be noted, are crews of vessels. Annually the surplus of crew arrivals over crew departures provides a moderate increment to the population of New Zealand. For the eight years the net gain from this source was 3,135. Information as to the country of origin is not available in this case.

The total surplus of arrivals on this basis was 83,469. Of these, 57,492 came from Commonwealth countries (including 46,868 from the United Kingdom) and 22,617 from other countries. Of the remainder, 227 came from unspecified countries or were born at sea. The period under review ends at 31 March 1953.

Country of Birth	Excess of Arrivals	
	Males	Females
<i>Commonwealth*</i>		
United Kingdom	23,711	23,157
Union of South Africa	153	199
India and Pakistan	1,235	1,183
Canada	166	353
Australia	923	1,867
Cook Islands and Niue	653	675
Western Samoa	926	609
Fiji	280	347
Tonga	138	80
Others (Pacific)	73	45
All others	327	302
Totals	28,585	28,907
<i>Other Countries</i>		
Denmark	343	267
Russia	214	173
Estonia	85	135
Latvia	251	249
Lithuania	96	90
Poland	772	308
Germany	267	501
Netherlands	6,755	2,929
France	48	77
Republic of Ireland and Ireland, undefined	1,041	742
Switzerland	214	125
Austria	190	145
Czechoslovakia	295	166
Hungary	179	129

* Including condominium, protected states, and trust territories.

Country of Birth	Excess of Arrivals	
	Males	Females
Rumania	420	300
Yugoslavia	173	264
Bulgaria	153	28
Italy	138	328
Greece	144	161
Others (Europe)	162	162
Turkey	93	58
Egypt	64	77
Burma	133	121
Indonesia	545	337
China	456	503
United States of America	427	289
Others (Pacific)	40	29
All others	146	100
Totals	13,824	8,793
Born at sea	2	4
Not specified	103	118
Crews of vessels	2,994	139
Grand totals	45,508	37,961

* Including condominium, protected states, and trust territories.

Assisted Immigration.—Various systems of assisted immigration have been in force since 1871, with the exception of the period 1892 to 1903 (inclusive). The scheme that was operating prior to 1947 had been largely suspended since 1927, and only 50 immigrants received financial assistance during the ten years ended 31 March 1946.

To alleviate the shortage of staffs in mental hospitals the Government decided in 1946 to recruit labour in the United Kingdom, and the number of arrivals under this system totalled 240 (all females).

In July 1947 a comprehensive assisted passage scheme was introduced by the Government. Under this scheme financial aid was granted to certain categories of immigrants. Eligibility was confined to single residents of the United Kingdom (with no dependants) between the ages of twenty and thirty-five years who were suitable for, and willing to accept employment in, a wide variety of productive and servicing occupations. Free passages were provided for those successful applicants who served in the United Kingdom Armed Forces (including Merchant Navy) during the Second World War; all others selected were required to contribute £10 towards the cost of their fares. All assisted immigrants were required to enter into a contract with the New Zealand Government that they would engage in approved employment for two years after their arrival in New Zealand.

A scheme of child migration from the United Kingdom also came into operation during the same year. The first draft arriving in June 1949. This scheme was devised to bring to New Zealand, on a guardianship basis, British children between the ages of five and seventeen years whose parents were prepared to agree to their placement with foster-parents approved by the Superintendent of Child Welfare. Arrivals under this scheme totalled 169 in 1949-50, 107 in 1950-51, 99 in 1951-52, and 87 in 1952-53. This scheme was terminated on 31 May 1953.

In May 1950 a new immigration policy was announced by the Government, the main changes being as follows:—

- The existing scheme in regard to unmarried British immigrants, including nominations, to continue, but with an extension of the age limit from thirty-five to forty-five years of age.
- The contribution of £10 previously required to be paid by other than ex-service personnel towards the cost of their fares to New Zealand to be abolished. In future free passages to be provided for all British immigrants, both single and married (including wives and families), selected under the scheme.
- Extension of the free passage scheme to certain categories of married British immigrants with up to two children.
- The acceptance, after negotiation and conclusion of agreements with the countries concerned, of a number of single non-British men and women between the ages of twenty and thirty-five years. Such an agreement was later entered into with the Netherlands Government.

Arrivals of "assisted" Dutch immigrants were 55 males in 1950-51, 937 males and 163 females in 1951-52, and 2,108 males and 601 females in 1952-53.

The number of assisted immigrants (exclusive of displaced persons) arriving in New Zealand since the reintroduction of the scheme in 1947 was as follows:—

	Number
Year ending 31 March 1947	158
Year ending 31 March 1948	1,140
Year ending 31 March 1949	1,527
Year ending 31 March 1950	2,532
Year ending 31 March 1951	2,928
Year ending 31 March 1952	4,949
Year ending 31 March 1953	7,581

In the preceding migration tables assisted immigrants are included in the totals of "Immigrants intending permanent residence."

Displaced Persons.—Commencing with the year 1949-50 the Government agreed to accept drafts of displaced persons from Europe, who were brought to New Zealand in shipping provided by the International Refugee Organization. These settlers were chosen by a New Zealand Selection Mission, and arrivals totalled 941 in 1949-50, 978 in 1950-51, and 2,663 in 1951-52, made up of young single men and women, widows with one child, family groups, orphans, and a number of elderly people. This scheme was brought to an end with the arrival in April 1952 of the final two displaced persons accepted by the Government.

PASSPORTS.—Authority for the issue of passports in New Zealand and by New Zealand representatives overseas is contained in the Passports Act 1946 and the Passport Regulations 1946.

New Zealand passports are issued by the Department of Internal Affairs at Wellington and Auckland. United Kingdom, Canadian, and Australian passports are issued by the respective High Commissioners for those countries. The representatives of New Zealand at London, Washington, New York, San Francisco, Ottawa, Canberra, Paris, The Hague, Bombay, and Tokyo are authorized to issue and renew New Zealand passports.

Entry into New Zealand.—Apart from British subjects arriving from Australia, no person sixteen years of age or over may land in New Zealand unless in possession of a valid passport or other travel document satisfactorily establishing nationality and identity. Exemption (which is additional to the requirements of the Immigration Restriction and Undesirable Immigrants Exclusion Acts) may be granted by the Minister of Internal Affairs. With the exception of nationals of those countries with which New Zealand has concluded agreements for the mutual abolition of visas, all aliens require a British visa.

For persons from the Cook Islands, Niue, or Western Samoa the only requirement is a permit to visit New Zealand granted by the Resident Commissioner of the Cook Islands or Niue or the High Commissioner for Western Samoa, as the case may be.

The regulations, further, do not apply to a British subject who is the master or a member of the crew of the vessel in which he arrives.

Departure from New Zealand.—British subjects leaving New Zealand, with the exception of those travelling to Australia or making the round trip to New Zealand's island territories, should be in possession of a valid passport or other travel document.

IMMIGRATION RESTRICTION.—The legislation respecting the restriction of immigration into New Zealand is contained in the Immigration Restriction Act 1908 and its amendments, and the Undesirable Immigrants Exclusion Act 1919. It is administered by the Labour and Employment Department.

Subject to certain exemptions, the following classes of persons are prohibited from landing in New Zealand:—

- Persons not of British birth and parentage, unless in possession of permits issued by the Labour and Employment Department. (Note.—A person is not deemed to be of British birth and parentage by reason that he or his parents or either of them is a naturalized British subject or by reason that he is an aboriginal Native or the descendant of an aboriginal Native of any dominion (other than New Zealand), colony, possession, or protectorate of Her Majesty.)
- Idiot or insane persons.
- Persons suffering from contagious diseases which are loathsome or dangerous.
- Persons arriving in New Zealand within two years after the termination of a period of imprisonment for a serious offence.
- Persons who are considered by the Attorney-General to be disaffected or disloyal, or of such a character that their presence in New Zealand would be injurious to the peace, order, and good government of the country.

6. Aliens of the age of fifteen years or over who refuse or neglect to take an oath (or make an affirmation) of obedience to the laws of New Zealand.

To obtain permits to enter New Zealand as permanent residents, application must be made by the intending immigrants themselves to the Director of Employment, Wellington. The application must be made in the prescribed form and must be supported by documents duly attested in the country of origin, in which country the applicant must have resided for at least twelve months prior to the date of application. Each application is considered individually on its own merits.

Provision is made in the law to permit persons covered by clause (1) above to pay temporary visits to New Zealand for the purposes of business, pleasure, or health. Temporary permits are normally restricted to some period not exceeding six months, but may be extended if the proper authorities consider that the circumstances warrant such action. A deposit may be required in respect of such temporary permit, and is returned on the departure of the visitor if the conditions of the temporary permit have been complied with. A deed to be entered into by some approved person or persons resident in New Zealand guaranteeing to pay all expenses that may be incurred by the Crown or any public body for the visitor's maintenance, relief, arrest, or detention in New Zealand or his deportation therefrom may also be required.

Provision is also made whereby, under certain conditions, students may be allowed to enter New Zealand temporarily.

Restricted Immigrants.—When persons who are lunatic, idiotic, deaf, dumb, blind, or infirm arrive in New Zealand and are likely to become a charge upon the public or upon any public or charitable institution, the master, owner, or charterer of the ship by which such persons came to New Zealand may be called on to enter into a bond of £100 for each such person, guaranteeing payment of any expenses which may be incurred for his support and maintenance by or in any such institution within a period of five years.

Declaration by Persons Arriving in New Zealand.—Every person of and over the age of fifteen years who lands in New Zealand must, unless exempted by the Minister of Immigration, make and deliver to an officer of Customs a declaration giving the following particulars: Name, age, marital status, occupation, birthplace, nationality, race, particulars of children under fifteen years of age arriving with him, residence, etc.

NATIONALITY AND NATURALIZATION.—The British Nationality and New Zealand Citizenship Act 1948, which came into force on 1 January 1949, was enacted following a conference of nationality experts of Commonwealth countries in February 1947, to discuss the basis of fresh nationality legislation. The scheme of the new legislation recommended by the Conference and accepted by Commonwealth Governments, is the "common status" of all British subjects, namely, that in each Commonwealth country all persons are recognized as British subjects who possess citizenship under the citizenship laws of any of the members of the Commonwealth. (NOTE.—The Act states that "British subject" and "Commonwealth citizen" have the same meaning.)

Upon the commencement of the Act, New Zealand citizenship was automatically conferred on the following classes of British subjects:—

- Those born in New Zealand.
- Those naturalized in New Zealand.
- Those ordinarily resident in New Zealand throughout the whole of the year 1948.
- Those whose fathers were British subjects born or naturalized in New Zealand.
- Women (being British subjects) married before the commencement of the Act to men who become citizens under the various provisions of the Act.

After the commencement of the Act, New Zealand citizenship may be acquired in the following ways:—

- By birth in New Zealand.
- By descent.
- By registration.
- By naturalization.

Citizens of other Commonwealth countries acquire New Zealand citizenship by registration. The requirement is twelve months' ordinary residence. A British woman married to a New Zealand citizen is entitled to registration without any residence qualification.

The principal conditions governing the grant of naturalization to aliens under the 1948 Act are that the applicant shall satisfy the Minister of Internal Affairs (a) that he has resided in New Zealand for a period of five years, (b) that he is of good character and has a sufficient knowledge of the English language, (c) that if his application is granted he intends to reside permanently in New Zealand, (d) that the applicant gives a year's notice of his intention to apply, and (e) that the applicant possesses a sufficient knowledge of the responsibilities and privileges of New Zealand citizenship. There is discretionary provision for the Minister to allow residence in other Commonwealth countries to be reckoned for the purposes of the first condition, but in such cases a minimum of two years' residence in New Zealand is essential.

Naturalization granted to a married man does not automatically confer New Zealand citizenship on his wife and children, if they are aliens. These dependants may apply to be registered as New Zealand citizens after the head of the family has been naturalized. An alien woman marrying a British subject does not acquire her husband's nationality on marriage, but may apply to be registered as a British subject and New Zealand citizen. Acquisition of citizenship by naturalization or registration automatically confers the status of a British subject, and the two methods of acquiring citizenship are differences in legal procedure only.

A British woman marrying an alien does not lose her nationality under the present Act.

The complete numbers of naturalizations, registrations, etc., during the year ended 31 March 1953 were as follows.

Country of Birth	Certificates of Naturalization (Aliens and British-protected Persons)		Certificates of Registration as a New Zealand Citizen (British Subjects, Irish Citizens, British-protected Persons, and Aliens)		Certificates of Registration as a New Zealand Citizen—Minor Children (British Subjects and Aliens)		
	Males	Females	Males	Females	Males	Females	
United Kingdom			89		36	3	4
Union of South Africa			1		3		
Republic of India			6		11	1	4
Canada					1		
Australia			5		6	1	2
Western Samoa	2	1			2		
Fiji			1		2		
Tonga	2				1		
Norway	1						
Sweden	2						
Denmark	4						
Russia	1						
Lithuania	2						
Latvia					1		
Poland	12			1	7	1	3
Germany	6	3			3	1	1
Netherlands	7				2	2	3
Belgium	1			1			
France	1			1			
Republic of Iceland				1			
Switzerland	4					3	
Italy	5	1			2		
Czechoslovakia	2				3		
Austria	3				4		
Hungary	2						
Yugoslavia	28				7		1
Rumania	1				1		
Greece	6				4		
Egypt					1		
Jordan							2

Country of Birth	Certificates of Naturalization (Aliens and British-protected Persons)		Certificates of Registration as a New Zealand Citizen (British Subjects, Irish Citizens, British-protected Persons, and Aliens)		Certificates of Registration as a New Zealand Citizen—Minor Children (British Subjects and Aliens)	
	Males	Females	Males	Females	Males	Females
Turkey		1				
Lebanon		3	4			
Burma				6		1
Indonesia	7			5	1	3
China	2	1		1		
United States of America	2		2	1		
Mexico					1	
Society Islands	1		1			
Born at Sea					1	
Totals	108	10	115	113	14	24

Of the certificates of registration granted to adult males, 110 were to British subjects or Irish citizens who acquired New Zealand citizenship by virtue of one year's residence in the country immediately preceding the date of application, and 5 to British subjects generally resident outside New Zealand who were registered as New Zealand citizens by virtue of their close associations by way of descent, residence, or otherwise, with New Zealand.

The certificates of registration granted to adult females were 50 to British subjects who acquired New Zealand citizenship by virtue of one year's residence in the country immediately preceding the date of application, 10 to British wives of New Zealand citizens, 5 to British subjects generally resident outside New Zealand, and 48 to alien women married to New Zealand citizens by birth or naturalization.

Certificates of registration granted to minor children were 33 (13 males, 20 females) to children of New Zealand citizens, by naturalization or registration, and 5 (1 male, 4 females) to children who lodged applications independently.

REGISTRATION OF ALIENS.—The registration of aliens in New Zealand is provided for by the Aliens Act 1948, the administration being carried out by the Police Department. This Act repealed earlier enactments relating to aliens.

The number of aliens on the New Zealand register at 1 April 1953 was 21,726, comprising 14,732 males and 6,994 females. This does not purport to be the complete number in New Zealand, as certain classes are not required to register, including the following: (a) children under sixteen years of age; (b) persons holding diplomatic status, Consuls, or employees of Embassies, Legations, and Consulates who are resident in New Zealand solely for the purpose of performing official duties; (c) certain temporary visitors to New Zealand; (d) Western Samoans, except in special circumstances. Under the British Nationality and New Zealand Citizenship Act 1948 a citizen of the Republic of Ireland, though not possessing the status of British subject (or, in alternative phraseology, Commonwealth citizen), is nevertheless not classed as an alien and is not required to register.

The following table shows the numbers on the register at 1 April 1952 and 1 April 1953.

Country of Nationality	1 April 1952			1 April 1953		
	Males	Females	Totals	Males	Females	Totals
Norway	134	34	168	134	30	173
Sweden	83	27	110	84	33	117
Denmark	316	160	476	364	188	552
Finland	28	12	40	27	17	44
Russia (U.S.S.R.)	135	87	222	128	89	217
Estonia	69	102	171	74	103	177
Latvia	220	245	465	232	247	479
Lithuania	83	87	170	84	89	173
Poland	953	669	1,622	996	703	1,699
Germany	156	162	318	184	203	387
Netherlands	3,246	1,130	4,376	6,574	2,604	9,178
Belgium	26	9	35	35	9	44
France	66	63	129	73	74	147
Switzerland	221	94	315	282	124	406
Italy	189	172	361	225	168	393
Czechoslovakia	246	122	368	251	117	368
Austria	35	42	77	135	52	187
Hungary	165	113	278	178	111	289
Yugoslavia	751	303	1,054	744	327	1,071
Albania	32	1	33	31	1	32
Rumania	46	32	78	49	28	77
Bulgaria	141	11	152	140	12	152
Greece	591	407	998	601	423	1,024
Lebanon	13	13	26	18	13	31
China	2,317	696	3,013	2,373	842	3,215
United States of America	608	249	857	548	238	786
Tonga	15	7	22	11	5	16
Other countries	62	33	95	59	34	93
Stateless	103	97	200	98	101	199
Totals	11,050	5,179	16,229	14,732	6,994	21,726

The number of aliens on the register as at 1 April 1953 shows an increase of 5,497 as compared with twelve months earlier, the countries contributing the major portion of this increase being Netherlands (4,802), China (202), Austria (110), Switzerland (91), Poland (77), Denmark (76), and Germany (69).

The United States of America recorded a numerical decrease of 71, this being the only country to show a decrease in excess of 6 during the year.

The age distribution and occupations of aliens on the register at 1 April 1952 will be found on page 31 of the 1953 issue of the Year-Book.

DISTRIBUTION OF POPULATION.—Detailed population statistics are compiled for each census and these are published in Vol. 1—Increase and Location of Population. In the 1951 issue will be found figures for provincial districts, land districts, urban areas, counties, cities, boroughs, town districts, extra-county islands, and shipping. In addition, county figures are subdivided further into (a) ridings, and (b) townships, localities, etc.

North and South Islands.—In 1858 the North Island had a larger population than the South, but this position was reversed at the succeeding enumeration and the South Island had the larger population (exclusive of Maoris) at each census from 1861 to 1896. In 1901 the North Island was found to have slightly the larger total and since then has steadily increased its lead.

The following table gives the population of the North and South Islands as disclosed by each census since 1901.

Census Year	Population (Excluding Maoris)			Proportions Per Cent	
	North Island	South Island	Totals	North Island	South Island
1901	388,626	381,678	770,304	50.45	49.55
1906	474,605	411,390	885,995	53.57	46.43
1911	561,281	444,304	1,005,585	55.82	44.18
1916	648,439	447,789	1,096,228	59.15	40.85
1921	741,255 ¹	477,658 ¹	1,218,913 ¹	60.81	39.19
1926	831,813	512,656	1,494,469	61.87	38.13
1936	938,939	552,545	1,491,484	62.95	37.05

¹ Includes Maori half-castes (total, 4,236) living as Europeans.

Census Year	Population (Excluding Maoris)			Proportions Per Cent	
	North Island	South Island	Totals	North Island	South Island
1945	1,050,984	552,570	1,603,554	65.54	34.46
1951	1,202,357	621,439	1,823,796	65.93	34.07

^{*} Includes Maori half-castes (total, 4,236) living as Europeans.

The natural increase of European population (i.e. excess of births over deaths) for the North Island during the 1945-51 intercensal period was 103,954, and the total net increase 151,373. For the South Island the natural increase was 48,806, and the total net increase 68,869. It is clear that in the strict sense of the term there was no "inward drift" of population in this period. Inclusive of Maoris, the North Island increase was 167,577, or 14.62 per cent, and the South Island increase 69,597, or 12.52 per cent. In contrast to preceding periods the South Island rate of increase approaches fairly closely that of the North Island.

At the 1951 census the North Island population was 1,313,869, inclusive of 111,512 Maoris; and the South Island population 625,603, inclusive of 4,164 Maoris.

At 31 March 1953 the North Island population was estimated as 1,389,390, inclusive of 118,923 Maoris; and the South Island population as 648,163, inclusive of 4,276 Maoris.

Provincial Districts.—The approximate areas and the estimated populations, inclusive of Maoris, of the various provincial districts are given in the next table.

For the guidance of overseas readers it is necessary to explain that there have been no provinces in New Zealand since 1875. Provincial districts are simply the former provinces, but they have no functions and are now merely historic divisions serving as useful units for a primary geographical break-down. There is no Southland Provincial District and the "Southland portion of Otago" has little resemblance in area to the former Southland Province.

Provincial District	Area (Square Miles)	Estimated Population 1 April 1953	Provincial District	Area (Square Miles)	Estimated Population 1 April 1953
Auckland	25,420	792,490	Canterbury	13,940	290,863
Hawke's Bay	4,260	95,600	Otago—		
Taranaki	3,750	90,400	Otago portion	14,050	164,600
Wellington	10,870	410,900	Southland portion	11,480	79,700
Marlborough	4,220	24,100			
Nelson	10,870	70,300	New Zealand	103,740	2,037,553
Westland	4,880	18,600			

The foregoing table illustrates the wide disparities in the size of the provincial districts, whether measured by area or by population.

The area shown for New Zealand now includes certain islands which formerly were excluded. These are Kermadec Islands (13 square miles), Campbell Island (44 square miles), and the uninhabited islands—Three Kings, Solander, Bounty, Snares, Antipodes, and Auckland—with a total area of 263 square miles.

Urban and Rural Population.—On 17 April 1951 somewhat over two-fifths (43.7 per cent) of the population of New Zealand (excluding Maoris) were included in the five principal urban areas—Auckland, Hutt, Wellington, Christchurch, and Dunedin—and over one-half (54.4 per cent) in these or in the ten secondary urban areas. In the following table urban population means the population in cities and boroughs, while rural population covers counties, all town districts, and extra-county islands. It will be observed that there was a marked slackening in the rate of the urban drift between 1926 and 1936, but the 1945 figures, due, no doubt, to wartime influences, disclosed a substantial increase in the urban population, whereas the rural population, for the first time, recorded a decrease. In the 1945-51 period a substantial gain was recorded in the rural population, but it was insufficient to prevent further deterioration of its ratio to total population.

Census	Population			Percentage of Total	
	Rural	Urban	Migratory	Rural	Migratory
Excluding Maoris—					
1901	416,701	349,842	3,761	54.09	45.42
1906	457,297	424,251	4,447	51.61	47.89
1911	495,577	505,003	5,005	49.28	50.22
1916 ¹	501,956	585,306	3,463	46.02	53.66
1921 ²	531,694	681,988	5,231	43.62	56.95
1926	552,344	785,040	7,085	41.08	58.39
1936	602,519	884,293	4,672	40.40	59.29
1945 ³	591,855	1,008,534	3,165	36.91	62.89
1951	654,921	1,163,090	5,785	35.91	63.77
Including Maoris—					
1926	610,446	790,555	7,138	43.35	56.14
1936	677,087	892,024	4,699	43.02	56.68
1945 ³	674,821	1,024,292	3,185	39.64	60.17
1951	748,922	1,184,672	5,878	38.62	61.08

¹ Figures exclude military and interment camps.

² Figures include Armed Services in New Zealand at census date and interment camps, but exclude members of the United States Forces present in New Zealand and also enemy prisoners of war.

³ Inclusive of Maori half-castes (3,221 in 1916 and 4,236 in 1921) living as Europeans.

Another conception of urban and rural population is presented in the next table. For this purpose urban population has been taken as that enumerated in cities, boroughs, or town districts with a minimum population of 1,000. Migratory population is excluded.

—	Including Maoris		Excluding Maoris	
	1926	1951	1926	1951
<i>Numbers</i>				
Urban: towns of—				
1,000-2,500	104,360	88,532	102,201	86,560
2,500-5,000	86,408	123,596	85,430	114,757
5,000-10,000	82,662	107,251	82,144	115,666
10,000-25,000	186,545	251,812	185,580	236,930
25,000 or over	338,213	625,666	337,221	617,921
Totals, urban	798,188	1,196,857	792,576	1,171,834
Rural	602,813	736,737	544,808	646,177
Totals, New Zealand	1,401,001	1,933,594	1,337,384	1,818,011
<i>Percentages</i>				
Urban: towns of—				
1,000-2,500	7.45	4.58	7.64	4.76
2,500-5,000	6.17	6.39	6.39	6.31
5,000-10,000	5.90	5.55	6.14	6.36
10,000-25,000	13.31	13.02	13.88	13.03
25,000 or over	24.14	32.36	25.21	33.99
Totals, urban	56.97	61.90	59.26	64.45
Rural	43.03	38.10	40.74	35.55
Totals, New Zealand	100.00	100.00	100.00	100.00

Some apparent anomalies where the numbers exclusive of Maoris exceed those inclusive of Maoris arise from the transfer of towns to other categories as a result of the different basis of population.

An important characteristic of the distribution of urban population in New Zealand is what may be termed its decentralization. In place of one great metropolis containing a huge proportion of the population, the more highly urbanized portion of the community is localized in four widely separated centres. These four centres (counting Wellington and Hutt as a single conurbation) have always existed more or less on the same plane, a fact which has played no small part in the development of the country. An interesting feature is the wide gap which has long existed between the four major centres and the next largest towns.

Urban and rural communities are not evenly distributed. The South Island, for example, contains proportionately more rural population than does the North Island.

RECENT MOVEMENTS IN TOWNS AND COUNTIES: Urban Areas.—These are statistical conceptions and not administrative units. Their purpose is to provide definite, stable, and comparable boundaries for the larger centres of population. In addition to the central city or borough, they include neighbouring boroughs, town districts, and parts of counties which are regarded as suburban to the centre of population.

Urban areas were formed in 1917 and, except for two additions and one deletion, remained unaltered until 1951, when a revision of boundaries was made and the new areas used in the 1951 census. From census records and maps revised population figures were prepared on the basis of the new boundaries. In the case of European population the figures were revised for each census back to 1911, and on the basis of population including Maoris the revision was possible back to the 1926 census. The most significant change resulting from this revision was the division of the former Wellington Urban Area, plus additional areas to the north, into the two adjacent urban areas of Hutt and Wellington. The two areas in a sense form a single conurbation, and for some purposes it may still be convenient to use a combined figure. However, the extent and pattern of development in the Hutt Valley have been such as to establish it as a centre complementary to Wellington but no longer suburban to it. In Auckland the boundaries were extended considerably, but in most other cases it was found that little change was necessary.

Urban Area	Population (Including Maoris)				Population Increase 1945-51	
	1926	1936	1945	1951	Numerical	Percentage
Auckland	204,549	226,366	286,767	329,123	42,356	14.77
Hamilton	17,271	20,096	27,319	33,137	5,818	21.30
Gisborne	15,089	15,878	16,995	19,774	2,779	16.35
Napier	18,594	19,170	20,741	24,538	3,797	18.31
Hastings	14,612	17,920	20,306	23,797	3,491	17.19
New Plymouth	16,344	18,597	21,057	24,923	3,866	18.36
Wanganui	26,521	25,750	26,262	29,717	3,455	13.16
Palmerston North	20,107	24,372	27,820	32,908	5,088	18.29
Hutt	25,327	37,295	55,786	74,878	19,092	34.22
Wellington	103,687	122,062	132,305	133,414	1,109	0.84
Nelson	11,746	13,493	16,523	20,497	3,974	24.05
Christchurch	118,708	133,515	151,068	174,221	23,153	15.33
Timaru	16,959	18,771	19,672	22,851	3,179	16.16
Dunedin	88,862	85,607	87,587	95,457	7,870	8.99
Invercargill	22,054	25,912	27,755	31,613	3,858	13.90
Totals	720,430	804,804	937,963	1,070,848	132,885	14.17

In the quarter-century covered by the table all urban areas, with two exceptions, have consistently recorded increases in population. Of these exceptions, one comprised a slight recession at Wanganui, 1926-36. The other was Dunedin, 1926-36, but there the recession arose from the inflation of the 1926 population by visitors to the exhibition then being held at Dunedin. In numbers, growth during the twenty-five years is led by Auckland; in rate, Hutt and Hamilton are outstanding.

The Wellington figure is partly explained by the substantial growth in the adjacent Hutt Urban Area. However, the increase for the two urban areas combined is 10.74 per cent, a rate exceeded by all urban areas except Dunedin.

Of particular interest is the marked increase in the Maori population in urban areas during the last twenty-five years. In Auckland the number of Maoris increased from 1,209 in 1926 to 7,621 in 1951. In the fifteen urban areas there were 3,457 Maoris in 1926, as compared with 16,010 in 1951.

The next table contains the population (Maoris included) of the fifteen urban areas as estimated for 1 April 1953. The component parts of the five largest centres of population are given in detail, while for the remaining ten areas totals only are quoted. In most of the ten cases the urban area comprises the central city or borough plus the urban portion of the adjoining county. At 1 April 1953 the five largest urban areas had a total population of 849,000, this being equivalent to 41.67 per cent of the New Zealand total. The total for urban areas at the same date was 1,128,100, or 55.37 per cent of the total population of New Zealand.

Urban Area	Population (Including Maoris)	Urban Area	Population (Including Maoris)
<i>Auckland</i>		<i>Wellington</i>	
Auckland City	131,400	Wellington City	126,500
Birkenhead Borough	5,070	Tawa Flat Town District	3,050
Northcote Borough	3,400	Remainder of urban area	8,050
Takapuna Borough	14,750		
Devonport Borough	12,150	Total	137,600
Henderson Borough	2,270		
Glen Eden Borough	3,020	<i>Christchurch</i>	
New Lynn Borough	6,800	Christchurch City	126,600
Mt. Albert Borough	26,500	Riccarton Borough	8,380
Mt. Eden Borough	19,400	Lytelton Borough	3,620
Mount Wellington Borough	8,370	Heathcote County	7,660
Newmarket Borough	2,630	Remainder of urban area	36,540
Ellerslie Borough	3,960		
One Tree Hill Borough	12,900	Total	182,800
Mt. Roskill Borough	21,800		
Howick Borough	2,630		
Onchanga Borough	17,550	<i>Dunedin</i>	
Otahuhu Borough	8,420	Dunedin City	71,100
Papatoetoe Borough	9,210	Port Chalmers Borough	3,110
Manurewa Borough	3,580	West Harbour Borough	2,020
Papakura Borough	3,870	St. Kilda Borough	7,430
Panmure Township Road District	660	Green Island Borough	3,710
Remainder of urban area	30,160	Mosgiel Borough	3,350
		Remainder of urban area	7,180
Total	350,500	Total	97,900
		Hamilton	35,500
		Gisborne	21,100
<i>Hutt</i>		Napier	26,100
Lower Hutt City	46,600	Hastings	25,300
Upper Hutt Borough	9,370	New Plymouth	26,600
Petone Borough	10,750	Wanganui	31,200
Eastbourne Borough	2,770	Palmerston North	35,000
Remainder of urban area	10,710	Nelson	21,600
		Timaru	24,000
Total	80,200	Invercargill	32,700

Counties.—The following table gives the estimated population (including Maoris) of individual counties at 1 April 1953, together with the approximate area of each. It should be noted that "Administrative Counties" do not include boroughs or town districts independent of county control, but include town districts which form parts of counties.

North Island—		
Mangonui	7,770	958

Whangaroa	2,460	240
Hokingsa	7,900	613
Bay of Islands	12,290	824
Whangarei	14,250	1,044
Hobson	6,410	745
Otamatea	6,340	421
Rodney	5,890	477
Waitemata	31,500	607
Eden	1,720	1
Great Barrier Island	290	110
Manukau	17,200	239
Franklin	17,060	550
Raglan	11,350	930
Waikato	14,620	644
Waipa	15,180	445
Otorohanga	6,290	600
Kawhia	1,960	325
Waikomo	7,770	1,138
Taurarunui	3,760	878
Coromandel	2,700	444
Thames	3,090	414
Hauraki Plains	4,300	233
Ohiwemari	3,540	237
Piko	11,750	444
Manatua	15,000	994
Tauranga	15,900	721
Rotorua	10,600	1,040
Tupo	9,150	3,040
Whakatane	13,950	1,684
Opoitiki	5,010	1,326
Matakoia	1,970	295
Waipua	6,220	793
Uawa	1,680	261
Waikohu	3,490	1,018
Cook	8,120	832
Waioa	7,990	1,371
Hawke's Bay	17,600	1,671
Waipawa	3,710	524
Waipukurau	1,110	128
Patangata	3,130	651
Danevirke	4,380	428
Woodville	1,830	156
Weber	330	118
Ohara	1,890	423
Whangamomona	780	447
Clifton	2,650	443
Taranaki	7,890	229
Inglewood	3,310	199
Egmont	4,970	239
Stratford	5,280	419
Eltham	3,680	207
Waimate West	2,840	83
Hawera	6,310	191
Patea	3,850	591
Kaitieke	3,640	550
Waingarua	2,500	829
Waiohau	3,640	468
Wanganui	3,850	460
Rangitikei	11,950	1,729
Kiwitea	2,350	359
Pohangina	1,340	259
Oroua	4,110	190
Manawatu	6,500	265
Kairanga	5,720	184
Horowhenua	9,060	544
Hutt	20,100	450
Makara	6,270	99
Pahiatua	2,740	286
Akitio	1,250	321
Castlepoint	610	230
Eketahuna	1,820	311
Mauriceville	550	115
Masteron	3,230	586
Wairarapa South	3,080	440
Featherston	4,130	952
Totals	491,450	43,710
South Island—		
Sounds	940	507
Marlborough	8,020	1,896
Awatere	1,590	1,030
Kaikoura	3,190	906
Amuri	2,680	2,285

Cheviot	1,360	327
Waimea	16,050	1,537
Takaka	2,620	458
Collingwood	1,020	552
Buller	4,920	1,885
Murchison	1,410	1,372
Inangahua	3,470	942
Grey	5,230	1,579
Westland	4,580	4,410
Waipara	2,500	937
Kowai	1,960	157
Ashley	660	309
Rangiora	3,440	96
Eyre	1,750	175
Oxford	1,590	318
Tawera	740	941
Malvern	3,540	250
Papua	9,860	136
Waimairi	29,200	48
Heathcote	7,660	19
Halswell	2,730	40
Mount Herbert	590	66
Akaroa	1,500	169
Chatham Islands	470	372
Wairewa	910	170
Springs	2,220	91
Ellesmere	2,870	230
Selwyn	1,610	954
Ashburton	10,500	2,459
Geraldine	5,150	691
Levels	4,410	262
Mackenzie	3,490	2,739
Waimate	6,040	1,383
Waikata	10,500	2,392
Waihemo	1,160	338
Waikanae	3,610	316
Peninsula	4,040	40
Taieri	6,680	902
Bruce	3,860	520
Clutha	5,920	1,025
Tuapeka	7,600	1,388
Maniototo	2,670	1,340
Vincent	4,240	2,922
Lake	1,700	3,872
Southland	25,610	3,724
Wallace	9,370	3,727
Fiord	20	3,035
Stewart Island	560	670
Totals	250,010	58,909
Grand totals	741,460	102,619

During the year ended 1 April 1953 twelve counties are estimated to have gained population to the extent of 500 or more persons. Of these Waitemata, Waimairi, and Hutt counties were estimated to have gained population to a greater extent than all other counties during the year.

The growth of population in such counties as Waitemata, Manukau, Hutt, Makara, and Waimairi is largely attributable to urban development in the areas bordering on the three largest centres of population—Auckland, Wellington, and Christchurch.

Matamata County gained population as a result of development of the forest industry, particularly at Tokoroa, a township built to house the employees of the timber mills at Kinleith, 4½ miles away. Tauranga County population increased considerably during the year, especially in the area adjoining Tauranga Borough. In addition new timber mills have been commenced in this area. In Rotorua County also the forest industry was responsible for the substantial population gain.

Taupo and Tuapeka increased as a result of State hydro-electric development at Whakamaru and Roxburgh respectively.

In Whakatane County the development of the pulp and paper project has been largely responsible for the population increase. The gain in Rangitikei County population was mainly due to the increase in numbers at Waiouru. As a result of alterations to boundaries Waiouru military establishment (previously in Waimarino County) is now included in Rangitikei County.

Once again decreases in population were very few, in fact it was estimated that only two counties lost in excess of 100 persons during the period. In both cases reductions in numbers at military camps were responsible—Linton Camp in Kairanga County and Burnham camp in Malvern County were both extensively reduced in numbers.

Boroughs.—Similar information as in the case of counties is now given for boroughs.

Borough	Population (Including Maoris)	Approximate Area, in Acres
North Island—		
Kaitiaki	1,940	1,310
Kaikōke	1,740	1,342
Whangarei	12,800	3,507
Dargaville	2,950	2,800
Helenville	1,170	1,315
Birkenhead	5,070	3,084
Northcote	3,400	1,190
Takapuna	14,750	2,780
Devonport	12,150	1,100
Henderson	2,270	1,265
Glen Eden	3,020	1,244
New Lynn	6,800	1,393
Auckland (City)	131,400	18,253
Mount Albert	26,500	2,430

Borough	Population (Including Maoris)	Approximate Area, in Acres
Mount Eden	19,400	1,476
Mount Wellington	8,370	3,770
Newmarket	2,630	182
Ellerslie	3,960	745
One Tree Hill	12,900	2,430
Mount Roskill	21,800	4,605
Howick	2,630	1,103
Onehunga	17,550	1,876
Ōtāhuhu	8,420	1,345
Papatoetoe	9,210	1,587
Manurewa	3,580	1,960
Papakura	3,870	2,010
Pukekohe	4,060	3,470
Hunty	3,940	1,678
Ngaruawahia	2,290	1,112
Hamilton (City)	32,000	5,705
Cambridge	3,210	1,280
Te Awamutu	4,200	1,162
Te Kuiti	3,480	1,668
Taurarunui	3,320	1,925
Thames	4,760	2,712
Paeoa	2,680	1,419
Waihi	3,720	4,094
Te Aroha	2,760	2,783
Morrinsville	3,020	950
Matamata	2,480	924
Panmure	2,160	975
Mount Maungamui	2,120	925
Tauranga	8,780	2,748
Te Puke	1,590	1,047
Rotorua	11,350	3,611
Whakatane	4,240	1,539
Opoitiki	2,090	772
Gisborne	18,500	3,378
Wairoa	3,540	1,603
Napier (City)	20,800	2,477
Hastings	18,450	2,612
Havelock North	2,310	1,165
Waipawa	1,480	1,710
Waipukurau	2,630	971
Dannevirke	4,870	1,300
Woodville	1,300	1,054
Waitara	3,300	1,587
New Plymouth (City)	23,300	4,132
Inglewood	1,590	703
Opanake	1,150	676
Stratford	4,760	2,016
Eltham	2,030	1,599
Hawera	5,560	897
Patea	1,750	1,420
Ohakune	1,660	2,079
Raetihi	1,180	958
Wangamui (City)	28,700	5,726
Taihape	2,370	1,923
Marton	3,710	1,415
Feilding	6,260	2,031
Foxton	2,340	757
Palmerston N. (City)	32,900	6,943
Shannon	1,090	844
Levin	5,350	1,332
Ōtaki	2,790	1,390
Upper Hutt	9,370	2,165
Lower Hutt (City)	46,600	7,688
Petone	10,750	1,132
Eastbourne	2,770	1,546
Wellington (City)	126,500	17,798
Pahiatua	2,210	720
Eketahuna	730	948
Masterton	12,200	3,116
Carterton	2,320	1,265
Greystown	1,340	1,927
Featherston	1,140	759
Martinborough	980	1,070
Totals	871,110	203,453
South Island—		
Pictou	2,000	1,052
Blenheim	8,540	1,945
Nelson (City)	17,800	5,550
Richmond	2,220	2,600
Motueka	2,730	2,523

Borough	Population (Including Maoris)	Approximate Area, in Acres
Westport	5,700	760
Ruanga	1,830	1,186
Greymouth	9,090	2,594
Brunner	1,160	5,700
Kumara	480	842
Hokitika	3,060	674
Ross	470	3,800
Rangiora	2,920	877
Kaipoi	2,450	786
Riccarton	8,380	728
Christchurch (City)	126,600	16,788
Lyttelton	3,620	2,560
Akaroa	580	233
Ashburton	8,580	1,860
Geraldine	1,590	745
Temuka	2,290	795
Timaru (City)	22,500	3,524
Waimate	3,060	771
Oamaru	8,450	1,385
Hampton	290	630
Palmerston	930	900
Waikouaiti	620	1,958
Port Chalmers	3,110	714
West Harbour	2,020	2,181
Dunedin (City)	71,100	13,536
St. Kilda	7,430	462
Green Island	3,710	878
Mosgiel	3,350	865
Milton	1,760	315
Kaitiagata	1,240	1,280
Balclutha	2,680	1,000
Tapatu	450	129
Lawrence	650	615
Roxburgh	790	515
Naseby	200	112
Alexandra	1,530	815
Cromwell	860	806
Arrowtown	200	457
Queenstown	1,060	270
Gore	6,240	2,276
Mataura	1,750	1,272
Winton	1,160	505
Invercargill (City)	27,700	6,399
South Invercargill	1,330	2,257
Bluff	2,290	2,111
Riverton	1,060	718
Totals	391,610	104,354
Grand totals	1,262,720	307,807

During the year 1952-53 it was estimated that Auckland City, with a gain of 3,300 persons, had the highest numerical increase in population of all cities and boroughs. Mount Roskill with 1,700 increase was in second position, and Christchurch City third with an increase of 1,600. Five other cities and boroughs each gained in excess of 1,000. These were Lower Hunt City, Hamilton City, Wellington City, Palmerston North City, and Upper Hunt Borough.

Petone was estimated to have lost 200 persons, and was the only borough to suffer a population decrease. This was largely the result of the closing of Shandon Industrial Workers' Camp.

Town Districts.—As stated earlier, the population of independent town districts—i.e., those contained in section (a) of the following table—is not included with that of the county in which the town district is located, but the population of dependent town districts—section (b)—is included in that of the respective parent county.

Town District	Population (Including Maoris)	Approximate Area, in Acres	Town District	Population (Including Maoris)	Approximate Area, in Acres
<i>(a) Town Districts Not Forming Parts of Counties</i>					
North Island—					
Hikurangi	930	960	Tawa Flat	3,050	797
Kamo	850	852			
Warkworth	770	1,420	Totals	19,630	17,701
Waikato	1,240	1,275	South Island—		
Tuakau	1,140	1,265	Takaka	610	585
Leamington	990	1,330	Leeston	760	391
Orohoanga	1,650	560	Tinwald	890	1,525
Manunui	830	1,251	Pleasant Point	580	730
Taupo	1,800	2,290	Wynndham	590	680
Taradale	2,760	1,469	Lumsden	510	1,264
Ohara	520	815	Nightcaps	610	285
Manaia	680	510	Otautau	740	954
Waverley	800	484			
Mangaweka	380	955	Totals	5,290	6,414
Hunterville	530	791			
Bulls	710	677	Grand totals	24,920	24,115
<i>(b) Town Districts Forming Parts of Counties*</i>					
North Island—					
Kohukohu (Hokianga)	230	1,020	Patutahi (Cook)	220	1,275
			Kaponga (Eilham)	450	558
Rawene (Hokianga)	480	280	Normanby (Hawera)	410	260
Russell (Bay of Islands)	620	1,066	Totals	6,540	10,995

* Parent county shown in parentheses

Town District	Population (Including Maoris)	Approximate Area, in Acres	Town District	Population (Including Maoris)	Approximate Area, in Acres
Kawakawa (Bay of Islands)	670	280	South Island—Havelock (Marlborough)	290	210
Onerahi (Whangarei)	1,000	990			
Mercer (Franklin)	310	1,600	Southbridge (Ellesmere)	390	531
Te Kauwhata (Waikato)	670	1,290			
			Outram (Taieri)	360	886
Ohaupo (Waipa)	300	1,283	Edendale (Southland)	510	696
Kihikhi (Waipa)	480	523			
Kawhia (Kawhia)	310	470	Totals	1,550	2,323
Te Karaka (Waikohu)	390	700			
			Grand totals	8,090	13,318

* Parent county shown in parentheses

Extra-county Islands and Migratory Population.—In addition to the populations quoted for administrative counties, cities and boroughs, and independent town districts, the New Zealand totals include migratory population and persons located on islands not within the boundaries of any county. The two latter categories comprised an estimated total of 8,453 people at 1 April 1953.

Of the islands concerned, Waiheke, estimated at 2,000 for 1 April 1953, was the only one with a population of any size.

DENSITY OF POPULATION.—The relation of population to area, which is commonly referred to as "density of population," is a subject of much interest and a source of serious misconceptions. Generally speaking, a dense population must depend upon land-utilization or industrialization. In New Zealand there is a great area of high mountainous country, particularly in the South Island, while there are also large areas of water or of broken, swampy, or hilly country which is either incapable of effective use or which can be used profitably only for pastoral purposes, afforestation, or the like. No exact figures for the whole country are available, but it is known that only a moderate fraction of the total area of New Zealand is potentially arable.

There are no large areas of good land still to be brought into occupation and use, and most of the land remaining will require special methods or heavier capital expenditure to bring into use. Ultimately many such areas will be developed, and, in addition, improved methods and facilities will no doubt increase production from the land, but it seems unlikely that exceptional development may be expected in the near future.

While industrial development has made very marked growth in New Zealand over the years, and extensive further development appears certain, there are factors unfavourable to the growth of industry to a point where dense populations could be supported—not the least of which are weakness in mineral resources, relative smallness of the home market (even with an expanded population), and distance from export markets.

Within New Zealand there are wide variations in density of population. The North Island, with an area of 44,294 square miles, had a population density of 29.66 persons per square mile at the 1951 census date, and the South Island, with an area of 59,442 square miles, had a population density of 10.52 persons per square mile at the same date.

The following table provides comparative density figures on a provincial district basis.

Provincial District	Area, in Square Miles	Persons Per Square Mile				
		1901	1911	1921	1936	1951
Auckland	25,420	8.06	11.75	16.00	21.52	29.31
Hawke's Bay	4,260	9.30	12.46	14.94	18.07	21.41
Taranaki	3,750	10.79	14.44	17.40	20.71	23.17
Wellington	10,870	13.46	18.80	23.43	29.11	35.94
Marlborough	4,220	3.26	3.90	4.33	4.54	5.42
Nelson	10,870	3.50	4.48	4.39	5.47	6.23
Westland	4,880	2.98	3.24	2.92	3.83	3.72
Canterbury	13,940	10.34	12.52	14.34	16.81	20.69
Otago—						
Otago portion	14,050	8.95	9.46	9.76	10.76	11.33
Southland portion	11,480	4.18	5.17	5.44	6.35	6.76
Totals	103,740	7.86	10.20	12.26	15.17	18.70

MAORI POPULATION.—The first official general census of Maoris was taken in 1857-58, and others occurred in regular sequence from 1874 onwards. Owing to inherent difficulties the earlier census records make no pretence towards complete accuracy.

According to census records the Maori population suffered a period of almost unbroken decline from 1858 to 1896. The following causes no doubt contributed to this decline—intertribe warfare of the tribes and the heavier casualties which resulted from the introduction of firearms; the susceptibility of the Maori to epidemic and other diseases introduced with the white race; and the mental outlook of the Maori under the new conditions.

During the last fifty years, however, the Maori population has increased continuously, at first steadily and of later years at a fairly rapid rate. In fact, the vitality exhibited by the Maori race in recent years is a most outstanding feature. The rate of natural increase of the Maori population is now about double that of the European.

A statement of Maori population is now given for each census from 1901 to 1951.

Year	Maori Population	Intercensal Increase	Intercensal Increase	Average Annual Increase
		Number	Per Cent	Per Cent
1901	45,549	3,436	8.2	1.6
1906	50,309	4,760	10.5	2.0
1911	52,723	2,414	4.8	1.0
1916	52,997	274	0.5	0.1
1921	56,987	3,990	7.5	1.6
1926	63,670	6,683	11.7	2.2
1936	82,326	18,656	29.3	2.6
1945	98,744	16,418	19.9	1.9
1945*	100,044	17,718	21.5	2.1
1951	115,676	16,932	17.1	2.9
1951*	115,740	15,696	15.7	2.7

* Includes members of Armed Forces overseas at census date.

The average annual percentage increase from 1945 to 1951 was 2.89, which is considerably higher than the corresponding figure for the European population—viz., 2.34 per cent. Movements of troops have tended to invalidate this comparison; the natural increase rates for the year 1952 shown below afford a better illustration.

	European	Maori
Birth rate	24.77	45.41
Death rate	9.28	12.34
Natural-increase rate	15.49	33.07

Of the 115,676 Maoris at the 1951 census, 111,512 were in the North Island. Auckland Provincial District contains the bulk of the Maoris, particularly in the Auckland Peninsula and Poverty Bay regions. In the South Island Maoris do not attain any numerical significance. Maoris have always been residents in rural communities and this is still substantially true. A marked change is, however, taking place which probably acquired impetus during the war as a result of employment conditions. As late as the 1936 census only 8,249 Maoris (10.02 per cent) dwelt in cities, boroughs, or independent town districts. By the 1951 census the comparative figure was 22,726 (19.65 per cent). The largest concentration is in Auckland Urban Area, where 7,621 Maoris were enumerated.

The records of the 1945 and 1951 censuses permit of a statement of the total numbers wholly or partly of Maori blood.

Counted in the Maori population—

	1945	1951
Full Maori	61,440	76,918

	1945	1951
Maori-Europeans—		
Three-quarter caste	18,956	15,201
Half-caste	18,348	23,183
Maori-other Polynesian		374
Totals	98,744	115,676

Counted in the population other than Maori—

	1945	1951
Maori-European quarter-caste	16,902	18,421
Maori-Polynesian	263	
Maori-Japanese	20	16
Maori-Chinese	198	369
Maori-Indian	134	220
Maori-Syrian		42
Maori-Lebanese	57	31
Maori-American Indian		28
Maori-Negro	19	11
Maori-Filipino	8	10
Maori-West Indian	11	13
Maori-Melanesian	10	33
Totals	17,650	19,166

In 1951 there were recorded in New Zealand some 134,842 persons wholly or partly of Maori origin, compared with 116,394 in 1945.

STATISTICS OF THE 1951 CENSUS.—The tabulation and analysis of the population census taken for the night of 17 April 1951 is still proceeding, and the following volumes of census results have been published:

Volume I—Increase and Location of Population.

Volume II—Ages and Marital Status.

Volume III—Religious Professions, etc.

Appendix A—Census of Poultry.

New Zealand Life Tables, 1950-52.

Interim Returns of Population and Dwellings.

Some of the data to be covered by further volumes of census results are available, and certain summaries are given in the following pages; others will be found in the appropriate sections of this volume—e.g., Building, Construction, and Housing; Income and Income Tax; Employment and Unemployment, etc. The figures are subject to revision, but it is improbable that any major changes will be necessary.

It should be noted that Maoris are included in all tables, except where otherwise stated. When making comparisons with the figures for the census of 25 September 1945 allowance should be made for the fact that both censuses exclude members of the New Zealand Forces who were overseas at the respective census dates. The number absent overseas in 1945 was 45,381 (44,715 males and 666 females), and in 1951, 1,894 (1,891 males and 3 females). The 1945 census figures also exclude 250 members of the United States of America Forces and 803 enemy prisoners of war in New Zealand. On the other hand, refugees and internees were included in the enumeration.

AGES.—The age distribution of the population as disclosed at the censuses of 1945 and 1951 is now given.

Age Group (Years)	1945 Census			1951 Census		
	Males	Females	Total	Males	Females	Total
Under 5	90,992	87,533	178,525	119,443	114,989	234,432
5-9	74,930	72,993	147,923	92,746	88,951	181,697
10-14	67,630	64,573	132,203	78,381	76,111	154,492
15-19	70,007	68,531	138,538	66,931	63,583	130,514
20-24	80,223	70,718	120,941	71,716	68,957	140,673
25-29	84,788	68,278	123,066	74,220	72,234	146,454
30-34	61,043	67,299	128,342	67,165	69,233	136,398
35-39	61,324	62,465	123,789	69,294	69,149	138,443
40-44	55,339	53,892	109,231	65,241	62,407	127,648
45-49	49,334	50,108	99,442	57,490	54,119	111,609
50-54	41,808	45,065	86,873	48,370	48,763	97,133
55-59	42,740	42,765	85,505	39,400	42,989	82,389
60-64	39,846	39,175	79,021	38,121	40,390	78,511
65-69	32,514	32,923	65,437	34,225	36,270	70,495
70-74	20,282	20,616	40,898	25,979	27,931	53,910
75-79	11,750	12,832	24,582	14,650	16,276	30,926
80-84	5,010	5,929	10,939	6,905	8,321	15,226
85-89	1,844	2,297	4,141	2,245	3,083	5,328
90-94	424	582	1,006	506	788	1,294
95-99	76	110	186	88	153	241
100 and over	7	23	30	15	24	39
Not specified—Adults	858	598	1,456	794	731	1,525
Minors	108	116	224	43	52	95
Totals	832,877	869,421	1,702,298	973,968	965,504	1,939,472

The percentage of age distribution for the last two censuses is now given.

Age Group (Years)	1945	1951	Age Group (Years)	1945	1951
	Per Cent	Per Cent		Per Cent	Per Cent
Under 5	10.50	12.10	50-54	5.11	5.01
5-9	8.70	9.38	55-59	5.03	4.25
10-14	7.77	7.97	60-64	4.65	4.05
15-19	8.15	6.73	65-69	3.85	3.64
20-24	7.11	7.26	70-74	2.40	2.78
25-29	7.24	7.56	75-79	1.44	1.60
30-34	7.55	7.04	80-84	0.64	0.79
35-39	7.28	7.14	85-89	0.24	0.27
40-44	6.42	6.59	90 and over	0.07	0.08
45-49	5.85	5.76	Totals	100.00	100.00

The exclusion of members of the Armed Forces overseas affects the comparison in the above tables, particularly in regard to certain age groups. In the following summary, however, the absent members have been included in order to give a better picture of the changes in the age constitution of the population. All of these have been included in the age group 15 and under 65 years.

Age Group (Years)	1945 Census		1951 Census		Increase 1945-51	
	Numbers	Per Cent	Numbers	Per Cent	Numbers	Per Cent
Under 15	458,651	26.27	570,621	29.42	111,970	24.41
15 and under 65	1,140,129	65.30	1,191,666	61.43	51,537	4.52
65 and over	147,219	8.43	177,459	9.15	30,240	20.54
Not specified	1,680		1,620		-60	
Totals	1,747,679	100.00	1,941,366	100.00	193,687	11.08

NOTE.—Minus sign (—) denotes a decrease.

The outstanding points emerging from this table are the large increases in the numbers of children under 15 years, and of persons aged 65 or over, and the comparatively little change in the group 15 and under 65 years. The increase in children is mainly due to the high birth rate in the post-war years, while the gradual ageing of the population has been in evidence over a long period. The group 15 and under 65 years, which includes most of the working population, is, of course, affected by deaths in two World Wars.

MARITAL STATUS.—The marital status of persons aged 16 years and over as returned at the census of 1951 is summarized in the following tables. The status is that existing at the census date—i.e., a person who had been widowed or divorced, but had remarried before the census, is counted as married.

Age Group (Years)	Never Married	Married	Legally Separated	Widowed	Divorced	Not Specified	Total
<i>Males</i>							
16-19	53,042	365	1	1	3	75	53,487
20	13,497	695	6	1	2	31	14,232
21-24	42,830	14,358	130	28	46	92	57,484
25-29	27,288	45,774	617	134	326	81	74,220
30-34	12,638	52,901	705	271	592	58	67,165
35-39	9,472	57,681	775	428	879	59	69,294
40-44	7,129	55,550	820	731	966	45	65,241
45-49	5,994	48,628	802	1,049	974	43	57,490
50-54	5,080	40,130	613	1,590	869	68	48,370
55-59	4,107	32,072	508	1,997	666	50	39,400
60-64	4,003	29,819	462	3,144	629	64	38,121
65-69	3,679	25,032	534	4,426	496	58	34,225
70-74	3,014	17,267	386	4,927	338	47	25,979
75-79	1,734	8,300	190	4,226	156	44	14,650
80-84	800	3,242	85	2,695	64	19	6,905
85-89	224	838	19	1,132	24	8	2,245
90 and over	68	163	3	371	1	4	609
Not specified, adults	102	256	7	27	9	393	794
Totals 1951	194,701	433,091	6,663	27,178	7,039	1,239	669,911
Totals 1945	181,083	366,114	4,805	26,297	5,948	914	585,167
<i>Females</i>							
16-19	47,547	3,134	32	7	3	49	50,772
20	10,169	3,690	47	9	10	10	13,935
21-24	23,772	30,555	459	69	117	50	55,022
25-29	13,653	56,720	903	336	577	45	72,234
30-34	8,564	58,035	914	807	877	36	69,233
35-39	7,561	58,104	1,024	1,373	1,049	38	69,149
40-44	7,066	51,269	897	2,042	1,104	29	62,407
45-49	6,380	42,805	780	3,089	1,018	47	54,119
50-54	5,764	36,531	682	4,873	881	32	48,763
55-59	5,317	29,479	577	6,854	729	33	42,989
60-64	5,039	24,129	548	9,971	646	57	40,390
65-69	4,636	18,490	486	12,136	472	50	36,270
70-74	3,677	11,288	280	12,381	257	48	27,931
75-79	2,389	4,587	111	9,042	112	35	16,276
80-84	1,089	1,507	42	5,646	22	15	8,321
85-89	396	337	7	2,330	10	3	3,083
90 and over	99	82	2	777	1	4	965
Not specified, adults	81	434	12	93	6	105	731
Totals 1951	153,199	431,176	7,803	71,835	7,891	686	672,590
Totals 1945	174,787	378,854	6,007	64,292	6,392	183	630,505

The proportional distribution of the adult population—i.e., those aged 21 years and over—is given in the following summary.

Marital Status	Males		Females	
	1945	1951	1945	1951
Per Cent				
Never married	21.98	21.32	19.75	15.72
Married	70.84	71.88	66.61	69.88
Legally separated	0.93	1.11	1.06	1.27
Widowed	5.10	4.52	11.44	11.83
Divorced	1.15	1.17	1.14	1.30
Totals	100.00	100.00	100.00	100.00

The return of many single men who were overseas in 1945 would tend to obscure movement in the proportions of males as between the censuses. It is evident, however, that the high post-war marriage rates have increased the proportion of married men, but not to the same extent as is observed for females.

RELIGIOUS PROFESSIONS.—The following summary presents the main religious professions returned at the last census, with comparative figures for 1945 being given also.

Religious Profession	Adherents	
	1945	1951
Church of England	634,364	726,626
Presbyterian	376,602	446,333
Roman Catholic (including Catholic undefined)	230,819	264,555
Methodist	137,755	156,077
Baptist	27,533	31,518

Religious Profession	Adherents	
	1945	1951
Brethren	18,868	21,398
Ratana	17,945	17,414
Protestant (undefined)	12,122	14,432
Salvation Army	13,300	13,607
Church of Christ	11,406	11,937
Latter Day Saints	7,798	10,008
Congregational	6,416	6,824
Seventh Day Adventist	5,084	6,159
Ringatu	5,244	4,970
Christian (undefined)	3,780	4,853
Christian Scientist	4,827	4,586
Freethinker	3,109	3,774
Hebrew	3,470	3,661
Lutheran	2,145	3,309
Undenominational Christian	1,692	2,726
Rationalist.	2,887	2,088
Agnostic	1,547	2,083
Jehovah's Witness	650	1,756
Atheist	1,657	1,746
Missions	2,982	1,610
Christadelphian	1,367	1,484
Undenominational	1,530	1,382
Hindu	661	1,089
Eastern Orthodox Catholic	595	1,007
Apostolic	707	756
Spiritualist	763	717
Commonwealth Covenant Church	835	659
Society of Friends	546	593
Confucian	638	523
Pentecostal	443	477
Assemblies of God	362	475
Unitarian	417	456
Nonconformist	396	403
Theosophist	409	383
Liberal Catholic	334	328
Uncertain	341	322
Hau Hau	662	307
No religion (so returned)	11,313	11,475
All other religious professions	3,247	4,538
Object to state	133,431	137,597
Not specified	9,299	10,451
Totals	1,702,298	1,939,472

The category recorded as "Object to state" represents those persons availing themselves of the special statutory right of objecting to answer a question on this subject. It is very likely that the "not specified" group may also include a number of persons objecting to the question.

The proportional distribution according to number of adherents is as shown below.

Religious Profession	Percentage of Total Population	
	1945	1951
Church of England	37.27	37.47
Presbyterian	22.12	23.01
Roman Catholic (including Catholic undefined)	13.56	13.64
Methodist	8.09	8.05
Baptist	1.62	1.63
Brethren	1.11	1.10
Ratana	1.05	0.90
Protestant (undefined)	0.71	0.74
Salvation Army	0.78	0.70
Church of Christ	0.67	0.62
Latter Day Saints	0.46	0.52
No religion (so returned)	0.66	0.59
Object to state	7.84	7.09
All others (including "not specified")	4.06	3.94
Totals	100.00	100.00

BIRTHPLACES.—The distribution of the population in 1951 according to place of birth is now presented, with the 1945 figures being incorporated for comparative purposes. The nomenclature used in regard to countries of birth refers to status and territories in the census year and not necessarily to the present position.

Birthplace	Census	
	1945	1951
<i>Commonwealth of Nations with Protected States, Protectorates, Trust Territories, and Condominia—</i>		
New Zealand	1,456,067	1,672,962
England	114,508	125,957
Wales	3,911	4,433
Scotland	43,818	44,089
Northern Ireland	9,024	8,817
United Kingdom or Great Britain, <i>n.o.d.</i>	219	155
Isle of Man	362	331
Channel Islands	622	563
Union of South Africa	1,223	1,398
Republic of India	2,096	3,838

Birthplace	Census	
	1945	1951
Canada (including Newfoundland)	1,760	2,091
Australia	36,789	35,828
Cook Islands	393	999
Nine Island	222	330
Western Samoa	592	1,336
Fiji	1,173	1,702
Tonga	433	608
Other Pacific Islands within Commonwealth	243	351
All other countries within Commonwealth	915	1,355
Total, Commonwealth Countries	1,674,370	1,907,143
<i>Other Countries—</i>		
Republic of Ireland	7,249	6,423
Ireland undefined	2,342	1,932
Norway	508	516
Sweden	478	389
Denmark	1,039	1,191
Russia (U.S.S.R.)	348	506
Latvia	65	423
Poland	1,307	2,003
Germany	1,297	1,427
Netherlands	128	1,655
France	303	324
Switzerland	599	678
Italy	840	1,058
Czechoslovakia	166	357
Austria	342	454
Yugoslavia	3,090	2,901
Greece	260	369
China	3,150	3,264
United States of America	1,079	1,713
All other countries outside Commonwealth	1,720	3,068
Total other countries	26,310	30,651
Born at sea	570	410
Not specified	1,048	1,268
Grand totals	1,702,298	1,939,472

The heavy post-war immigration is reflected in a number of instances in the above table, particularly in regard to several foreign countries. The arrival of assisted immigrants from Netherlands is mainly responsible for the large increase shown for that country, while several thousand "displaced persons" arrived from other European countries.

DURATION OF RESIDENCE OF OVERSEAS-BORN.—Persons born elsewhere than in New Zealand are now classified by their duration of residence in this country.

Duration of Residence (Years)	Census	
	1945	1951
0-4	7,922	52,185
5-9	14,145	8,620
10-14	5,743	11,759
15-19	25,989	4,960
20-24	43,565	19,862
25-29	19,711	40,141
30-34	35,684	24,613
35-39	30,901	26,372
40-44	18,473	29,735
45-49	6,934	15,621
50-54	6,567	7,288
55-59	4,057	4,239
60-64	7,160	3,329
65-69	6,486	4,126
70-74	6,884	4,311
75-79	1,015	3,830
80-84	1,209	593
85-89	212	374
90 and over	45	86
Not specified	3,529	4,466
Totals	246,231	266,510

The curtailment of migration during the war years and the recovery following the cessation of hostilities is shown in the figures quoted above for persons with less than 5 years' residence in New Zealand.

In making comparisons between the two censuses it should be noted that the inter-censal period was 5½ years, and in addition the figures are affected by troop movements. This appears to be the reason for the large increase from the 19,711 in the 25-29 group in 1945 to 24,613 in the 30-34 group in 1951.

RACIAL ORIGINS.—The racial origins of the population are shown in three main divisions together with comparative figures for the 1945 census. While it is not possible to complete an accurate ethnological survey from census data, the information obtained is of considerable value.

Race	Census	
	1945	1951
European—		
European	1,575,974	1,791,020
European-Maori quarter-caste	16,902	18,421
Totals, European	1,592,876	1,809,441
Maori—		
Full Maori	61,440	76,918
* Included with Polynesian.		
NOTE.—F.B. signifies "full blood," M.B. "mixed blood," the second race being European.		

Race	Census	
	1945	1951
Three-quarter caste	18,348	15,201
Half-caste	18,956	23,183
Maori-other Polynesian	"	374
Totals, Maori	98,744	115,676
Race alien—		
Negro—F.B.	17	19
M.B.	85	59
Lebanese—F.B.		828
M.B.	F.B. 901	383
Syrian—F.B.	M.B. 438	109
M.B.		197
Lebanese-Maori	57	31
Syrian-Maori		42
Arab—F.B.	1	44
Indian—F.B.	1,116	1,784
M.B.	299	407
Indian-Maori	134	220
Burmese—F.B.	1	7
M.B.	11	84
Chinese—F.B.	4,373	4,832
M.B.	361	420
Chinese-Polynesian	8	99
Chinese-Maori	198	369
West Indian—F.B.	11	24
M.B.	45	44
Melanesian—		
Fijian—F.B.	20	40
M.B.	164	237
Other—F.B.	6	9
M.B.	18	39
Melanesian-Maori	10	33
Polynesian—		
Cook Island Maori (including Niuean)—F.B.	387	934
M.B.	192	425
Other or undefined—F.B.	170	750
M.B.	1,410	1,515
Polynesian-Melanesian		46
Other race aliens—F.B.	72	107
M.B.	173	218
Totals, race aliens	10,678	14,355
Grand totals	1,702,298	1,939,472
* Included with Polynesian.		
NOTE.—F.B. signifies "full blood," M.B. "mixed blood," the second race being European.		

The increase in Maoris of full-blood was at a substantially higher rate than that of Maori-Europeans; in fact, the three-quarter caste Maoris returned a decrease during the intercensal period. It does not seem likely that the decrease is a real one and it is possible that a change in enumeration technique may be partly responsible. Prior to 1951 a special Maori household schedule was used in the North Island and all persons in a Maori dwelling were enumerated on the one schedule. In 1951 Maoris were enumerated on the same schedules as Europeans and a separate personal schedule was used for each occupant in a dwelling on census night.

The relative rates of increase between 1945 and 1951 for the three groups were—Europeans, 13.6 per cent; Maoris, 17.1 per cent; and race aliens, 34.4 per cent. The substantial increases in Indians and Polynesians (other than Maori) result mainly from immigration.

DEPENDENT CHILDREN.—The term "dependent children" in these statistics covers all living children under the age of sixteen years irrespective of financial dependency between parent and child. In a few instances children under sixteen were not financially dependent on their parents, while in other cases children may be partly or wholly supported by their own efforts; generally, however, the great bulk of children under sixteen years are dependent on their parents.

Number of Dependent Children Under 16 Years	1945 (Excluding Maoris)			1951 (Including Maoris)		
	Married Men	Widowers	Widows	Married Men	Widowers	Widows
Nil	164,563	21,764	55,228	186,712	24,417	65,541
1	71,082	1,425	3,616	83,217	1,301	3,182
2	58,223	622	1,704	79,155	705	1,526
3	32,303	343	744	45,222	315	707
4	14,543	151	286	21,118	220	369
5	6,085	79	106	9,130	98	197
6	2,628	37	52	4,080	52	80
7	1,083	14	32	1,974	19	74
8	484	9	9	1,076	10	18
9 or over	372	3	9	818	7	15
Not specified	425	36	101	589	34	126
Totals	351,791	24,483	61,887	433,091	27,178	71,835

In the following summary, showing the average number of dependent children, the figures quoted for 1951 are under two headings—viz., exclusive of Maoris and inclusive of Maoris—figures for Maoris were not available for 1945. The exclusion of Maoris results in decreases in all cases of the average numbers of children.

—	1945		1951	
	Excluding Maoris	Excluding Maoris	Including Maoris	Including Maoris
<i>Average Number of Dependent Children</i>				
Married men—				
Per person	1.15	1.24	1.30	
Per person with dependent children	2.16	2.22	2.29	
Widowers—				
Per person	0.21	0.16	0.21	
Per person with dependent children	1.91	1.93	2.06	
Widows—				

—	1945		1951	
	Excluding Maoris	Excluding Maoris	Including Maoris	Including Maoris
Per person	0.19	0.14	0.17	
Per person with dependent children	1.77	1.83	1.96	

OVERSEAS WAR SERVICE.—The compilation of statistics regarding war service was restricted to service in uniform with the Armed Forces overseas from the place of enlistment. It included Navy, Army, and Air Force service, but not Merchant Navy, and only service with a Commonwealth Force in the First and Second World Wars and the South African War was counted. Of the 209,784 persons with overseas war service, 205,178 saw service in one war only, 4,535 had service in two wars, while 71 claimed service in the three wars.

OVERSEAS WAR SERVICE: NUMBERS

Wars	Males	Females	Total
Overseas service—			
Only in World War II	134,323	4,110	138,433
Only in World War I	62,973	1,300	64,273
Only in South African War	2,447	25	2,472
In World War II and World War I	3,282	49	3,331
In World War I and South African War	1,130	8	1,138
In World War II and South African War	65	1	66
In World War II, World War I, and South African War	70	1	71
Totals with overseas war service, 1951 census	204,290	5,494	209,784
Totals with overseas war service, 1945 census	157,744	2,840	160,584

The figures quoted for both censuses are exclusive of the members of the New Zealand Armed Forces overseas at the respective dates.

OVERSEAS WAR SERVICE: WARS AND FORCES WITH WHICH SERVED

Forces with Which Served	World War II		World War I		South African War	
	Males	Females	Males	Females	Males	Females
New Zealand Forces	125,154	1,858	52,617	576	2,083	18
Australian Forces	1,075	120	1,224	39	226	1
United Kingdom Forces and Indian Forces	11,015	2,100	13,262	735	1,244	15
Canadian Forces	282	30	284	5	23	
Other Commonwealth Forces	214	53	68	3	136	1
Totals	137,740	4,161	67,455	1,358	3,712	35

NOTE.—In this table where persons served in more than one war, they are shown for each war in which they served.

Chapter 4. SECTION 4—VITAL STATISTICS

Table of Contents

[4 A—BIRTHS](#)

[4 B—MARRIAGES](#)

[4 C—DEATHS](#)

[4 D—MAORIS](#)

[4 E—TOTAL POPULATION, INCLUDING MAORIS](#)

[4 F—MORBIDITY](#)

4 A—BIRTHS

REGISTRATION.—The law as to registration of births is embodied in the Births and Deaths Registration Act 1951, a consolidation of the then existing legislation. The provisions generally as to registration are that a birth may be registered within two months without fee. After two months and within six months a birth is registrable only after a statutory declaration of the particulars required to be registered has been made before the Registrar by the parent or some person present at birth, and on payment of the prescribed fee. A birth may be registered after six months only upon the direction of the Registrar-General, who may authorize registration in any case within two years after the date of birth. An information for neglect to register must be laid within two years of date of birth. In cases of neglect or refusal to give the Registrar information in respect of any birth the Registrar-General may at any time within two years after the birth of the child authorize some person to give the Registrar the information required to enable him to register the birth, and to sign as informant the entry in the register, upon which the Registrar shall register the birth.

Notwithstanding the foregoing provisions, power is given by the Act for the Registrar-General to register an unregistered birth which occurred in New Zealand, irrespective of the time that may have elapsed. Satisfactory evidence on oath, and such other proof as the Registrar-General may deem necessary, are required. This provision does not, however, relieve any person from liability to prosecution for failure to register in the proper manner.

Although two months are allowed for the registration of a birth, it is compulsory to notify the birth to the Registrar within a much shorter interval. The occupier of any premises in which a child is born is to give notice to the Registrar according to the best of the knowledge and belief of the occupier of the fact of the birth, the date on which it occurred, the name and address of the mother or father of the child, and of such other particulars as the Registrar-General may require. Any such notice is to be in writing, signed by the occupier and endorsed by some other person, if any, in attendance at the confinement, and is to be delivered or posted to the Registrar within forty-eight hours after the birth if in a borough, or seven days in any other case. Births are to be registered by the Registrar whose office is nearest to the place of birth.

Particulars required to be registered are: date and place of birth; name and sex of child; names, ages, and birthplaces of parents; occupation of father; maiden name of mother; date and place of parents' marriage; and ages and sex of previous issue (distinguishing living and dead) of the marriage. The father of an ex-nuptial child is not required to give information, nor is his name entered in the register unless at the joint request of the mother and himself, or unless he subsequently marries the mother. A child born out of New Zealand but arriving before attaining the age of eighteen months may be registered within six months of arrival. The Registrar-General may authorize registration of such a child who is over eighteen months but under three years of age. Additional information required on notification of birth—but not registration—includes (a) weight of child at birth, and (b) period of gestation of mother. These particulars are required for statistical purposes.

Birth statistics are compiled from the records of the Registrar-General. The births covered by a year's statistics are those registered during the year irrespective of the year of birth. The figures do not include still-births, except in the special classification on page 65 and in a table on page 66.

NUMBERS AND RATES.—The general long-term history of the birth rate in New Zealand has been downward. A reference to the diagram on page 58 and to the table on page 56, showing quinquennial average birth rates, indicates this trend very clearly. After the pioneering days of the nineteenth century, when the population consisted very largely of young immigrants faced with the raising of a family, the birth rate began to decline appreciably. A further migration wave at the turn of the century reversed the trend temporarily, but in 1909 the downward movement was again resumed. With minor fluctuations in the earlier stages and in the years influenced by the First World War this decline continued until 1936. In that year a slight upward movement began, and by 1940 some of the deficit had been made up by the gradual rise. This was accelerated during the Second World War (with minor fluctuations) until successive record high totals (as regards the numbers of births) were established in 1945–47. In 1948 a decline in births was shown with a further recession in 1949. The decreases were not large, and in 1950–52 increases were again in evidence with the 46,469 births registered in 1952 as the highest recorded in the history of New Zealand. The numbers and rates of births (children born alive) for each of the last twenty years are given in the following table.

Year	Number	Rate Per 1,000 of Mean Population
1933	24,334	16.63
1934	24,322	16.51
1935	23,965	16.17
1936	24,837	16.64
1937	26,014	17.29
1938	27,249	17.93
1939	28,833	18.73
1940	32,771	21.19
1941	35,100	22.81

Year	Number	Rate Per 1,000 of Mean Population
1942	33,574	21.73
1943	30,311	19.70
1944	33,599	21.59
1945	37,007	23.22
1946	41,871	25.26
1947	44,816	26.47
1948	44,193	25.59
1949	43,988	24.98
1950	44,309	24.67
1951	44,651	24.39
1952	46,469	24.77

Much of the movement in the birth rate during recent years has been allied to movement in the marriage rate. As may be expected, the movement in the birth rate reflects the tendency for couples to marry and have children in prosperous years rather than in years of depression.

Comparisons of birth rates over a series of years or between different countries are usually made on the basis of the "crude" rates—i.e., the number of births per 1,000 of the mean population, irrespective of sex or age.

The "crude" rates do not permit of allowance being made for variations in the proportion of women of the child-bearing ages, and it is advisable and of interest to supplement the table of "crude" rates with a computation of the legitimate birth rate per 1,000 married women of 15 and under 45 years of age, or the total birth rate per 1,000 of all women of these ages. The following table gives both rates for New Zealand for each census from 1881 to 1951 together with the "crude" rate for the year.

Year	Birth Rate Per 1,000 Women 15 and Under 45 Years		Crude Birth Rate
	Legitimate*	Total	
1881	315.0	194.8	37.95
1886	298.2	163.7	33.15
1891	279.2	139.2	29.01
1896	254.6	117.6	26.33
1901	246.2	111.7	26.34
1906	235.3	114.1	27.08
1911	211.7	109.5	25.97
1916	193.6	106.7	25.94
1921	181.6	99.0	23.38
1926	166.9	90.9	21.06
1936	136.6	72.2	16.64
1945	166.5	99.8	23.22
1951	172.8	116.9	24.39

* Per 1,000 married women.

The legitimate rate per 1,000 married women between the ages of 15 and 45 fell steadily at each census date from 1881 to 1936, the figure registered in the latter year being equal to a decline of 57 per cent. Considerable improvement was, however, effected in 1945, with a further improvement in 1951, but the latter rate shows a fall of 43 per cent on the 1881 figure. The rate on the basis of all women between the ages of 15 and 45 exhibited a greater fall, the 1936 figure being 63 per cent lower, but again substantial improvement was shown in 1945 and 1951, the latter rate being equivalent to a decrease of 40 per cent. The greater fall in the rate for all women is due to the fact that the proportion of married women in the child-bearing ages is now smaller than in former years.

Although the "crude" birth rates have fluctuated more so than the refined rates, the decline has not been so great, the 1951 figure being equal to a fall of 36 per cent on the 1881 rate.

A study of the figures for successive censuses reveals considerable changes in the age constitution of married women within the child-bearing ages. As the birth rate varies with age, the change in age constitution over the period is a factor which should be taken into account.

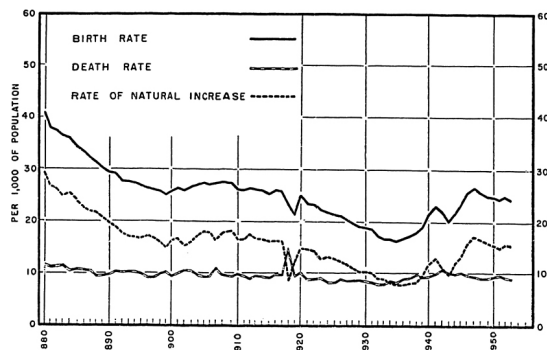
NATURAL INCREASE.—The decline of the birth rate in New Zealand has been accompanied until recent years by a decrease in the death rate. Nevertheless, the nominal rate of natural increase of population has fallen from 29.32 per 1,000 of mean population in 1880 to 15.49 in 1952. Acceptance of this figure without consideration of the effect of the changing age constitution will give an erroneous view of the present margin of increase and of the probable trend of population growth in the future.

The last eleven years have seen considerable movement in the rate of natural increase, the exceptionally low figure in 1943 being the result of a low birth rate due to war conditions. The increase in births coupled with a decrease in deaths resulted in increases each year to 1947 when the natural increase rate rose to 17.08. Since then the rate declined each year to 1951 on account of decreases in the birth rate, and for the three years 1949-51 owing to increases in the death rate. An increase in the birth-rate in 1952 together with a decrease in the death rate has resulted in the highest natural increase since 1949. The average annual rate of natural increase for the quinquennium 1946-50 was 16.06, and it is necessary to go back to 1911-15 to find a higher average annual rate, the figure for that period being 16.76.

Year	Numbers			Rate Per 1,000 Mean Population		
	Births	Deaths	Natural Increase	Births	Deaths	Natural Increase
1942	33,574	16,385	17,189	21.73	10.60	11.13
1943	30,311	15,447	14,864	19.70	10.04	9.66
1944	33,599	15,363	18,236	21.59	9.87	11.72
1945	37,007	16,051	20,956	23.22	10.07	13.15
1946	41,871	16,093	25,778	25.26	9.71	15.55
1947	44,816	15,904	28,912	26.47	9.39	17.08
1948	44,193	15,812	28,381	25.59	9.16	16.43
1949	43,988	16,012	27,976	24.98	9.09	15.89
1950	44,309	16,715	27,594	24.67	9.31	15.36
1951	44,651	17,512	27,139	24.39	9.56	14.83
1952	46,469	17,413	29,056	24.77	9.28	15.49

The natural increase rate provides a useful guide to population increase and a further method is that of the net reproduction index, which is based on female children born and probably surviving. Details of gross and net reproduction rates for recent years will be found in Section 3 of this issue.

The movements that have taken place since 1880 are well illustrated in the accompanying diagram, which shows the rates at annual intervals, although only every tenth year is labelled.



COMPARISON WITH OTHER COUNTRIES.—An international comparison of birth and natural increase rates is made in the following table. New Zealand's position is much higher on the basis of natural increase than it is on that of the birth rate. The rates, which are the average of the five years 1948-52, are taken from the *Monthly Bulletin of Statistics* issued by the United Nations.

Country	Rates Per 1,000 of Population	
	Births	Natural Increase
Costa Rica	47.2	34.9
Mexico	44.7	28.1
Ceylon	39.5	27.1
Puerto Rico	38.4	28.0
Chile	33.7	17.6
Israel	30.7	24.1
Japan	29.3	18.6
Yugoslavia	29.1	15.9
Canada	27.3	18.3
Union of South Africa	25.8	17.0
India	25.2	9.8
Portugal	25.2	12.5
Argentina	25.1	16.1
New Zealand	24.9	15.6
Finland	24.8	14.4
United States of America	24.1	14.4
Netherlands	23.3	15.7
Australia	23.1	13.5
Republic of Ireland	21.6	8.8
Spain	21.2	10.2
France	20.2	7.3
Italy	19.6	9.4
Norway	19.3	10.6
Denmark	18.7	9.8
Switzerland	18.1	7.7
Sweden	16.7	6.8
United Kingdom	16.6	4.9
Austria	15.8	3.4

SEXES OF CHILDREN BORN.—With the exception of one year (1860), there has always been a preponderance of males in the number of children born in New Zealand. The proportions are usually shown by stating the number of births of male children to every 1,000 female births. This number has been as high as 1,113 (in 1859), and as low as 991 (in 1860), but little significance can be attached to any figures prior to 1870, on account of the comparatively small number of births. It is a popular idea that the proportion of male births tends to increase considerably in war years, but the experience in this country does little to bear out this theory, the average over the six years 1940-45 being 1,057, as against that of 1,050 for the preceding ten years. Figures taken out some years ago prove that the masculinity rate for first births is distinctly higher than for subsequent births. As the first-birth rate tends to rise during war years, and actually reached a very high peak during the early part of Second World War, the total masculinity rate would also be affected and would give rise to the popular idea that wars result in an increase in the proportion of male children born. The extreme range since 1870 has been from 1,016 male per 1,000 female births in 1878 to 1,081 in 1923. Rates for the last five years are given below.

Year	Number of Births of		Male Births Per 1,000 Female Births
	Males	Females	
1948	22,617	21,576	1,048
1949	22,733	21,255	1,070
1950	22,677	21,632	1,048
1951	23,068	21,283	1,069
1952	23,814	22,655	1,051

MULTIPLE BIRTHS.—The number of cases of multiple births and the proportion per 1,000 of the total (living births only) during the last five years are shown in the following table.

Year	Total Births	Total Cases	Cases of Twins	Cases of Triplets	Multiple Cases Per 1,000 of Total Cases
1948	44,193	43,667	522	2	12.00
1949	43,988	43,450	533	3	12.34
1950	44,309	43,756	540	6	12.48
1951	44,651	44,125	510	8	11.74
1952	46,469	45,893	570	3	12.49

* Includes one case where triplets would have been recorded had not one child been still-born.
 † Includes one case of quadruplets.

Counting only cases where both children were born alive, there were 569 cases of twin births registered in 1952. There were also three cases of triplets and one case where one of triplets was still-born.

The total number of confinements resulting in living births was 45,893, and on the average one mother in every 80 gave birth to twins (or triplets).

When still-births are taken into account, the total number of confinements for the year 1952 is increased to 46,683, and the number of cases of multiple births to 628. On this basis the proportion of mothers giving birth to twins or triplets is increased to one in 73.

The incidence of multiple births has not varied greatly in recent years, as may be seen from the following summary.

Year	Cases of Twins				Cases of Triplets				Total Multiple Cases	Rate Per 1,000 Confinements
	Both Born Alive	One Born Alive, One Still-born	Both Still-born	Total	All Born Alive	One Born Alive, Two Still-born	Two Born Alive, One Still-born	All Still-born		
1948	522	30	7	559	2			2	561	12.6
1949	532	43	9	584	3		1	4	588	13.3
1950	540	46	12	598	6			1	605	13.6
1951	509	40	10	559	8			1	568	12.7
1952	569	47	8	624	3		1	4	628	13.7
Average of five years	534	41	9	585	4			5	590	13.2

* Includes one case of quadruplets.

The proportion of multiple births has been consistently high during recent years, while the rate of 14.2 experienced in 1944 was a record figure. The number of cases of triplets recorded in 1951 was exceptional.

The likelihood of still-births occurring is much greater in cases of multiple births than in single cases. This is exemplified in the following table. The figures in respect of multiple cases include all cases where one or more of the children were still-born.

Year	Still-birth Cases Per 100 of Total Cases (Including Still-births)	
	Single Cases	Multiple Cases
1948	1.80	6.60
1949	1.68	8.86
1950	1.81	9.75
1951	1.68	8.98
1952	1.70	8.92
Average of five years	1.75	8.62

During the five years 1948-52 there were 2,672 cases of live twin births (including ex-nuptial), and of these in 865 instances, or 32.4 per cent, both children were males; in 847, or 31.7 per cent, both were females; and in the remaining 960, or 35.9 per cent, the children were of opposite sexes.

The three cases of triplets in 1952 comprised one of three females, one of one male and two females, and one of two males and one female.

AGES OF PARENTS.—Information as to the relative ages of parents of legitimate living children whose births were registered in 1952 is shown in the following tables.

Age of Mother, in Years	Age of Father, in Years										Total Cases
	Under 21	21 and Under 25	25 and Under 30	30 and Under 35	35 and Under 40	40 and Under 45	45 and Under 50	50 and Under 55	55 and Under 60	60 and Over	
	<i>Single Births</i>										
Under 21	259	1,352	856	142	32	13	8				2,662
21 and under 25	99	2,952	5,343	1,631	388	111	18	11	4	1	10,558
25 and under 30	6	681	6,333	5,108	1,705	406	94	30	11		14,374
30 and under 35	1	60	986	3,903	3,030	1,021	283	77	38	11	9,410
35 and under 40	4	4	89	582	2,011	1,445	460	140	64	11	4,806
40 and under 45	2	7	43	227	550	314	130	58	13	1,344	
45 and over				9	21	42	26	12			110
Totals	365	5,051	13,614	11,409	7,402	3,567	1,219	414	187	36	43,264*
	<i>Multiple Births</i>										
Under 21	3	4	5	1							13
21 and under 25	1	20	49	22	5						97
25 and under 30	1	5	79	65	17	4	2				172
30 and under 35			22	62	51	15		1			151
35 and under 40			10	37	30	17	1	4			99
40 and under 45				4	6	1	2	3			16
45 and over						1					1
Totals	4	29	155	160	114	56	20	4	7		549
Grand totals	369	5,080	13,769	11,569	7,516	3,623	1,239	418	194	36	43,813†

* Including 45 legitimate cases where twins would have been registered had not one child been still-born.

† Including 9 cases of triplets and 1 case where one of triplets was still-born.

PREVIOUS ISSUE OF PARENTS.—Information as to the previous issue of the existing marriage, required in connection with the registration of births in New Zealand, is useful not only for record purposes, but also as providing valuable data for statistical purposes. Tables are given in the annual Report on Vital Statistics containing detailed information as to number of previous issue in conjunction with (1) age of mother and (2) duration of marriage. The table under the first heading for the year 1952 is here summarized.

Age of Mother, in Years	Number of Previous Issue						Total Legitimate Cases
	0	1	2	3	4	5	
Under 21	1,998	578	88	11			2,675
21 and under 25	5,586	3,459	1,230	288	80	11	10,655
25 and under 30	3,903	5,090	3,483	1,372	466	144	14,546
30 and under 35	1,488	2,432	2,676	1,567	746	335	9,561
35 and under 40	598	864	1,104	904	627	344	4,905
40 and under 45	144	169	251	216	177	139	1,360
45 and over	6	11	17	18	15	12	111
Totals	13,723	12,603	8,849	4,376	2,111	985	43,813*

* This number represents 43,264 single cases and 549 multiple cases.

In computing previous issue, multiple births have been given their full significance, the numbers at the head of the columns relating to children born alive. In the following table this procedure has been followed not only for the previous issue, but also for children covered by the 1952 registrations, who are also taken into account in the computation of the averages.

Age of Mother, in Years	Total Mothers	Total Issue	Average Issue
Under 21	2,675	3,462	1.29
21-24	10,655	17,820	1.67
25-29	14,546	33,868	2.33
30-34	9,561	28,874	3.02
35-39	4,905	18,335	3.74

Age of Mother, in Years	Total Mothers	Total Issue	Average Issue
40-44	1,360	6,194	4.55
45 and over	111	589	5.31
Totals	43,813	109,142	2.49

It should be stressed that the averages are no more than they purport to be—viz., the average number of children (including those registered in 1952) born up to the present time to those mothers of legitimate children whose births were registered during the year. They do not purport to represent, nor do they represent, the average issue of all women of the ages shown. Furthermore, they include issue born to the existing marriages only. The averages for recent years were as follows: 1948, 2.40; 1949, 2.42; 1950, 2.45; and 1951, 2.46. In 1915, the earliest year for which reliable comparative figures are available, the average issue was 3.11. This fall in the average issue of women giving birth to children is some indication of the tendency towards smaller families. The 1943 average, for the first time since these figures were compiled, reversed the trend, and a further increase was recorded in 1944, but with the increase in the proportion of first births in the three following years the average declined. A slight improvement has been noted for the years 1948-52, this being accounted for by decreases in the proportion of first births.

FIRST BIRTHS.—Of a total of 254,396 confinements resulting in legitimate births during the six years 1947-52, the issue of no fewer than 87,089, or 34 per cent, were first-born children. In 35,386, or 41 per cent, of these cases the birth occurred within twelve months, and in 64,289, or 74 per cent, within two years after the marriage of the parents. In the remaining 26 per cent of cases where there was any issue to the marriage two years or more had elapsed before the birth of the first child.

The annual number of first births registered naturally follows closely the movement in the marriage rate. With the return of men from service overseas there came a heavy increase in the number of marriages, and correspondingly the proportion of first births rose steeply to 40.03 per cent in 1947, a rate very little below the record figure of 41.69 per cent established in 1940. Since 1947, however, a downward tendency has been evident. An interesting feature of the birth statistics for 1947 and 1948 was the high proportion of first births occurring within two years after marriage—75.62 per cent of all legitimate first cases recorded in 1947 and 75.44 per cent in 1948 falling in this class. These are the highest figures recorded since 1929. The steady decline in the marriage rate since the post-war peak figure of 1946 has been accompanied by a marked downward movement in the actual proportion of first births to total births.

Year	Total Legitimate Cases	Total Legitimate First Cases	Proportion of First Cases to Total Cases	First Cases Within One Year After Marriage		First Cases Within Two Years After Marriage	
				Number	Proportion to Total First Cases	Number	Proportion to Total First Cases
				Per Cent	Per Cent	Per Cent	Per Cent
1947	42,566	17,039	40.03	7,293	42.80	12,885	75.62
1948	42,005	15,164	36.10	6,244	41.18	11,440	75.44
1949	41,796	14,087	33.70	5,659	40.17	10,269	72.90
1950	42,006	13,629	32.45	5,419	39.76	9,964	73.12
1951	42,210	13,447	31.86	5,424	40.34	9,830	73.10
1952	43,813	13,723	31.32	5,547	40.42	9,881	72.00
Totals for six years	254,396	87,089	34.23	35,586	40.86	64,269	73.82

The period of time elapsing before the birth of the first child has varied considerably during recent years mainly as a result of war and post-war influences. The following table compares the 1952 figures with those for earlier years, and illustrates the movement in the duration-of-marriage factor in first births.

Duration of Marriage, in Years	Proportion Per Cent of Total First Births			
	1914	1924	1934	1944
Under 1 year	52.95	50.06	46.25	38.47
1 and under 2 years	28.62	26.64	26.79	26.30
2 and under 3 years	9.02	10.43	10.24	11.28
3 and under 4 years	3.43	5.51	6.16	7.88
4 and under 5 years	1.88	3.03	3.96	7.18
5 and under 10 years	3.26	3.36	5.49	7.36
10 years and over	0.84	0.97	1.11	1.53
Totals	100.00	100.00	100.00	100.00

For the years covered by the foregoing table the average duration of marriage before the birth of the first child was—1914, 1.63 years; 1924, 1.76 years; 1934, 1.85 years; 1944, 2.22 years; and 1952, 1.81 years.

An item of interest extracted from the birth statistics is a table of first births occurring to mothers in different age groups, expressed as a proportion per cent of the total first births. A comparison has also been computed on this basis for the years 1914, 1924, 1934, 1944, and 1952.

FIRST BIRTHS, BY AGE OF MOTHER

Age of Mother, in Years	First Births, Proportion Per Cent at Each Age Group to Total First Births				
	1914	1924	1934	1944	1952
Under 20	6.73	7.55	8.90	7.33	7.94
20 and under 25	35.89	38.16	40.39	41.79	47.32
25 and under 30	35.01	32.59	32.79	29.54	28.44
30 and under 35	15.61	14.68	13.10	14.61	10.84
35 and under 40	5.52	5.33	3.79	5.36	4.36
40 and under 45	1.16	1.59	0.99	1.34	1.05
45 and over	0.08	0.10	0.04	0.03	0.05
Totals	100.00	100.00	100.00	100.00	100.00

The figures of average ages of mothers at the birth of their first child are as follows for the above years: 1914, 26.55; 1924, 26.39; 1934, 25.90; 1944, 25.18; and 1952, 25.48.

EX-NUPTIAL BIRTHS.—The numbers of ex-nuptial births registered during each of the years 1942-52, with the percentages they bear to total births registered, were as follows.

Year	Number	Percentage of Total Births
1942	1,339	3.99
1943	1,467	4.84
1944	2,020	6.01
1945	1,824	4.93
1946	1,824	4.36
1947	1,727	3.82
1948	1,686	3.82
1949	1,671	3.80
1950	1,768	3.99
1951	1,935	4.33
1952	2,104	4.53

War influences, resulting in unusual movements of the population and the influx of servicemen to the more heavily populated centres, no doubt are responsible for the high percentages recorded during 1943-46.

The long-term trend in the rate of ex-nuptial births is indicated by the movement in the proportion of ex-nuptial births per 1,000 unmarried women—i.e., spinsters, widows, and divorced women—at the reproductive ages. The figures for each census year from 1911 to 1951 are as follows.

Census Year	Unmarried Women 15 and Under 45 Years of Age	Ex-nuptial Births	Ex-nuptial Birth Rate Per 1,000 Unmarried Women
1911		120,778	1.078
1916		125,461	1.159
1921		136,539	1.258
1926		148,551	1.473
1936		167,781	1.126

Census Year	Unmarried Women 15 and Under 45 Years of Age	Ex-nuptial Births	Ex-nuptial Birth Rate Per 1,000 Unmarried Women
1945	156,326	1,824	11.67
1951	130,343	1,935	14.85

Included in the total of 2,104 ex-nuptial births in 1952 were twenty-four cases of twins, and two cases where one of twins was still-born, the number of confinements being thus 2,080. From the following table it will be seen that of the 2,080 mothers 664, or 32 per cent, were under twenty-one years of age.

Age	Cases
14	5
15	22
16	48
17	97
18	146
19	164
20	182
21	162
22	152
23	133
24	115
25-29	450
30-34	234
35-39	131
40-44	38
45 and over	1
Total	2,080

The Births and Deaths Registration Amendment Act 1930 directed the omission of the word "illegitimate" from the register when the birth of an ex-nuptial child is registered. The word "illegitimate" appearing in any entry made prior to the passing of the Act is deemed to be expunged and deleted, and must also be omitted from any certified copy of an entry.

The Legitimation Act.—Important changes were made by the Legitimation Act of 1939, which repealed previous legislation on the subject. This Act stipulates that every ex-nuptial person whose parents have intermarried, whether before or after the passing of the Act, shall be deemed to have been legitimated from birth by reason of such marriage. The Act requires the parents or surviving parent of any person legitimated under the Act to register with the Registrar-General the particulars of the birth of that person, showing that person as the lawful issue of the parents. Application for registration was required to be made within six months after the date of the passing of the Act in cases where the marriage took place prior to that date. In cases where the marriage has taken place subsequent to the passing of the Act, application for registration must be made within three months after the date of the marriage.

Where the Registrar-General has reason to believe that any person has been legitimated under the terms of the Act, and no application for registration has been made within the prescribed time, he may require the responsible parents or parent to make an application within a specified period of not less than seven days after receiving notice to do so. Any failure to comply with the notice requiring application for registration within the time specified renders the person or persons responsible liable on summary conviction to a fine of £5. If no application for registration is made within the appropriate time specified in the Act or in the notice received from the Registrar-General, application for registration of the particulars of the birth of any legitimated person may be made by that person, or by one of his parents, or by any other person.

The number of legitimations registered in each of the last five years, and the total since the Act of 1894 came into force, are shown in the following table.

Year	Number of Children Legitimated		
	Previously Registered	Not Previously Registered	Total
1948	518	3	521
1949	411	2	413
1950	401		401
1951	394		394
1952	415		415
Totals from 1894 to 1952	11,726	3,294	15,020

ADOPTIONS.—The Births and Deaths Registration Act contains provision for the registration of adopted children. The Registrar of the Court by which any adoption order is made is required to furnish to the Registrar-General particulars of the order, including the full name and place of birth of the child, as well as the full names and addresses of both the natural and the adopting parents. An entry is made in the prescribed form in the register of births, particulars of the adopting parents being given in lieu of those of the natural parents. If the child's birth has previously been registered in New Zealand a note of the adoption order is made on the original entry. An amendment to the Infants Act in 1939 extended the age at which a child might be legally adopted from under fifteen years to under twenty-one years.

The adoption of a Maori child is required to be registered in the same manner as that of a European child unless the adoption order is made under the Maori Affairs Act 1953.

The following table shows the number of adoptions (exclusive of Maori children) which have been registered during the last five years.

Year	Number		
	Males	Females	Total
1948	698	664	1,362
1949	654	595	1,249
1950	629	626	1,255
1951	696	709	1,405
1952	690	740	1,430

Of the 1,430 adoptions registered in 1952, 797 were children under the age of one year, 247 were between one and five years, 189 were between five and ten years, and 197 were aged ten years or over. In addition, 186 Maori children (99 males and 87 females) were adopted in 1952.

Statistics of adoptions registered have been available in New Zealand since 1919, and these indicate that the numbers are considerably influenced by the economic condition of the country, the lowest total, 329, being recorded in 1931. The highest total prior to 1940 occurred in 1921, when 584 adoptions were registered, this, no doubt, being the result of influences operating after the First World War. Possibly various factors arising out of the Second World War have had a bearing on the high totals for recent years, but the extension of age at which a child might legally be adopted is also of importance in this connection. It should also be noted that the unprecedented totals since 1944 are associated with the high number of ex-nuptial births occurring in these years.

STILL-BIRTHS.—The registration of still-births was made compulsory in New Zealand as from 1 March 1913. Although it is necessary to effect a birth-registration entry for a still-born child, no entry is made in the register of deaths. Section 15 of the Statutes Amendment Act 1946, amending the Births and Deaths Registration Act 1924, stipulated, however, that a medical practitioner or a midwife in attendance at a confinement where a still-birth occurs must furnish a certificate stating to the best of his or her knowledge and belief the cause of the still-birth. Particulars of causes of still-births will be found in Section 4C relating to deaths. A still-born child is defined as one "which has issued from its mother after the expiration of the twenty-eighth week of pregnancy and which was not alive at the time of such issue." Still-births are not included either as births or as deaths in the various numbers and rates shown in this subsection and in that relating to deaths.

The registrations of European still-births during each of the years 1948-52 were as follows.

Year	Males	Females	Totals	Male Still-births Per 1,000 Female Still-births		Percentage of Still-births to—	
				Living Births	All Births	Living Births	All Births
1948	483	351	834	1.376	1.89	1.85	1.85
1949	449	347	796	1.294	1.81	1.78	1.78
1950	489	376	865	1.301	1.95	1.92	1.92
1951	449	355	804	1.265	1.80	1.77	1.77
1952	442	404	846	1.094	1.82	1.79	1.79

Masculinity is in general much higher among still-births than among living births, the rate for still-births in 1952 being 1,094 males per 1,000 females as compared with 1,051 for living births.

The percentage of ex-nuptials among still-born infants was in 1952, 6.41, and among infants born alive, 2.42.

Of the living legitimate births registered in 1952, 31 per cent were first births, while of legitimate still-births 37 per cent were first births. Statistics over many years indicate that there is a considerably greater probability of still-births occurring to mothers having their first confinement than to those having subsequent confinements. In addition to the 846 European still-births in 1952, there were 110 Maori still-births registered, comprising 57 males and 53 females.

FŌETAL DEATHS.—Section 20 of the Births and Deaths Registration Act 1951 stipulates that in the case of a foetal death where the child has issued from its mother after the twentieth week, and up to and including the twenty-eighth week of pregnancy, a medical practitioner or a midwife who was in attendance at the confinement shall sign and supply a certificate stating to the best of his or her knowledge and belief the cause of the foetal death, and such other particulars as may be required by the Registrar-General. This requirement came into force as from 1 April 1952. A foetal death is not required to be registered as in the case of a still-born child.

4 B—MARRIAGES

MARRIAGE may be celebrated in New Zealand only on the authority of a Registrar's certificate, either by a person whose name is on the list of officiating ministers under the Marriage Act, or before a duly appointed Registrar or Deputy Registrar of Marriages. Marriage by an officiating minister may be celebrated only between 8 o'clock in the morning and 8 o'clock in the evening. Marriage before a Registrar can be celebrated at any time during the hours the office of the Registrar is open for the transaction of public business.

Notice of intended marriage must be given to a Registrar of Marriages by one of the parties to the proposed marriage, and one of the parties must have resided for three full days in the district within which the marriage is to be celebrated. In the case of a person under twenty-one years of age, not being a widow or widower, the consent of parent or guardian is necessary before the Registrar's certificate can be issued. A schedule to the Guardianship of Infants Act 1926 sets out the person or persons whose consent is required in various circumstances. In cases where double consent is required, section 8 provides for dispensing with the consent of one party if this cannot be obtained by reason of absence, inaccessibility, or disability. In similar cases where the consent of only one person is necessary, consent may be given by a Judge of the Supreme Court. Consent of the Court may also be given in cases of refusal by any person whose consent is required.

If in any particular case a declaration is made that there is no parent or lawful guardian resident in New Zealand, then a certificate may be issued by the Registrar (without the necessity of Court proceedings) fourteen days after the date on which the notice of intended marriage was given.

The system of notice and certificate has operated in New Zealand since 1855. Officiating ministers and Registrars are required to send to the Registrar-General returns of all marriages celebrated, and as the returns come in they are checked off with the entries in the Registrars' lists of notices received and certificates issued. In case of the non-arrival of a marriage return corresponding to any entry in the list of notices, inquiries are made as to whether the marriage has taken place.

Marriage is forbidden between persons within certain degrees of relationship, any such marriage being declared void. The prohibition applies whether the relationship is by the whole blood or by the half-blood, and whether the relationship is nuptial or ex-nuptial. The present law on this matter is contained in the Marriage Amendment Act 1946.

An amendment to the Marriage Act in 1939, which repealed a similar provision passed in 1933, stipulates that a Registrar may not issue a certificate of marriage where either of the intending parties is under sixteen years of age. No marriage shall be deemed to have been unduly solemnized, however, by reason only of this provision. The 1933 amendment made provision enabling women to become officiating ministers for the purposes of the Marriage Act. The 1946 amending Act provides for the validity of Service—i.e., Armed Forces overseas—marriages.

The Maori Purposes Act 1951 stipulates that after 1 April 1952 every marriage to which a Maori is a party shall be celebrated in the same manner, and its validity shall be determined by the same law, as if each of the parties was a European; and all the provisions of the Marriage Act 1908 shall apply accordingly.

As a result of this legislative change marriage statistics for the year 1952 are inclusive of Maoris and Maori marriage figures as a separate feature have lapsed. Figures quoted in this subsection for years prior to 1952 are all exclusive of Maoris.

Particulars regarding divorce will be found at the close of this subsection.

NUMBERS AND RATES.—The movement of the marriage rate over a lengthy period of time may be observed from the statistical summary appearing towards the end of this Year-Book. The numbers and rates of marriages during each of the last twenty years are here given.

Year	Number	Rate Per 1,000 of Population	Year	Number	Rate Per 1,000 of Population
1933	10,510	7.18	1943	11,579	7.53
1934	11,256	7.64	1944	13,125	8.43
1935	12,187	8.23	1945	16,160	10.14
1936	13,808	9.25	1946	20,535	12.39
1937	14,364	9.55	1947	18,525	10.94
1938	15,528	10.09	1948	17,192	9.96
1939	17,115	11.12	1949	16,785	9.53
1940	17,448	11.28	1950	16,504	9.19
1941	18,313	8.85	1951	16,359	8.93
1942	12,219	7.91	1952	17,061	8.55

* Inclusive of Maoris.

Both the marriage rate and the number of marriages in 1946 were the highest on record. The main reason for this was the return from overseas of many thousands of men in the most prolific marriage age groups. An appreciable decline, however, in both the number of marriages and in the marriage rate took place in 1947 and 1948 and continued until 1951. Although separate figures for European marriages are not available for 1952, the total of all marriages showed a small increase on the 1951 figure.

Comparison with Other Countries.—Marriage rates for certain countries for 1952 are given below (these particulars have been taken from the *Monthly Bulletin of Statistics*, issued by the Statistical Office of the United Nations).

Country	Rates Per 1,000 Mean Population	Country	Rates Per 1,000 Mean Population
Israel	11.1	Chile	8.1
Yugoslavia	10.5	Argentina	8.0
United States of America	10.0	Portugal	7.8
Canada	8.8	Switzerland	7.8
Australia	8.6	Spain	7.7
New Zealand	8.6	Sweden	7.4
Netherlands	8.4	France	7.3
Austria	8.3	Italy	7.0
Denmark	8.2	Ceylon	6.6
Norway	8.2	Mexico	6.2
Puerto Rico	8.2	Republic of Ireland	5.3

MARITAL STATUS.—The total number of persons married during the year 1952 was 34,122, of whom 29,867 were single, 1,750 widowed, and 2,505 divorced. The figures for the five years 1948 to 1952, showing the sexes separately, are given in the table following.

Year	Single		Widowed		Divorced		Total Persons Married
	Bridegroom	Bride	Bridegroom	Bride	Bridegroom	Bride	
1948	14,799	14,920	897	832	1,496	1,440	34,384
1949	14,480	14,584	870	781	1,435	1,420	33,570
1950	14,280	14,452	894	776	1,330	1,276	33,008
1951	14,244	14,371	854	731	1,261	1,257	32,718
1952*	14,927	14,940	911	839	1,223	1,282	34,122

* Inclusive of Maoris.

The position is more easily seen by studying the percentages given in the next table.

Year	Bridegrooms			Brides		
	Single	Widowed	Divorced	Single	Widowed	Divorced
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent

* Inclusive of Maoris.

Year	Bridegrooms			Brides		
	Single	Widowed	Divorced	Single	Widowed	Divorced
1948	86.08	5.22	8.70	86.78	4.84	8.38
1949	86.27	5.18	8.55	86.89	4.65	8.46
1950	86.52	5.42	8.06	87.57	4.70	7.73
1951	87.07	5.22	7.71	87.85	4.47	7.68
1952*	87.49	5.34	7.17	87.57	4.92	7.51

* Inclusive of Maoris.

Reference to the divorce statistics at the end of this subsection will show that the number of divorces since and including the later war-years has been at a high level, although there has been a steady decline since 1946. The number of decrees absolute in the period 1948-52 was 8,644, as compared with 4,907 in the five years 1936-40, an increase of 76 per cent. The increase in the number of divorced people remarried is therefore not surprising. The number of widowed persons remarrying, which was 39 per 1,000 in 1940, rose to 51 per 1,000 in 1952.

The relative marital status of bridegrooms and brides for each of the five years 1948 to 1952 is next given.

Year	Marriages Between Bachelors and Spinsters			Marriages Between Widowers and Divorced Women			Marriages Between Divorced Men and Widowed Women		
	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	
1948	13,582	390	827	434	279	184	904	163	429
1949	13,336	327	817	385	302	183	863	152	420
1950	13,271	285	724	378	330	186	803	161	366
1951	13,260	288	696	364	306	184	747	137	377
1952*	13,875	316	736	378	367	166	687	156	380

* Inclusive of Maoris.

The relative proportions of divorced men and divorced women remarrying during the last three years has changed but little compared with ten years earlier. During the three years 1938-40 the number of male divorces remarrying was 2,066, as compared with 2,169 females, which gives a rate of 95 males for every 100 females. In 1950-52 the respective numbers were 3,814 males and 3,815 females, and the corresponding rate 100 males for every 100 females. In the case of widowed persons remarrying, however, there has been a marked change in the figures. In the three-year period 1938-40, 2,420 widowers remarried but only 1,619 widows, whereas in 1950-52, there were 2,659 widowers and 2,346 widows who remarried, the number of widowers per 100 widows being 149 in the former period and 113 in the latter period.

AGES OF PERSONS MARRIED.—Of the 34,122 persons married in 1952, 5,162, or 15 per cent, were under twenty-one years of age; 12,591, or 37 per cent, were returned as twenty-one and under twenty-five, 8,194, or 24 per cent, as twenty-five and under thirty; 4,673, or 14 per cent, as thirty and under forty; and 3,502, or 10 per cent, as forty years of age or over. The following table relates to the year 1952.

Age of Bridegroom, in Years	Age of Bride, in Years								Total Bridegrooms
	Under 21	21 and Under 25	25 and Under 30	30 and Under 35	35 and Under 40	40 and Under 45	45 and Over		
Under 21	639	213	19	3					874
21 and under 25	2,379	3,081	481	60	8	1	1		6,011
25 and under 30	1,038	2,505	1,382	294	54	8	7		5,288
30 and under 35	171	553	605	345	137	37	12		1,860
35 and under 40	43	147	271	227	171	67	32		958
40 and under 45	12	55	104	140	131	112	61		615
45 and over	6	26	44	112	173	237	857		1,455
Total brides	4,288	6,580	2,906	1,181	674	462	970		17,061

There have been some considerable changes in the proportions of persons marrying at the various age periods. To illustrate the extent to which these figures have varied a table is given showing since 1920 the proportions of men and women married at each age period to every 100 marriages.

Period	Age of Bride, in Years								Totals
	Under 21	21 and Under 25	25 and Under 30	30 and Under 35	35 and Under 40	40 and Under 45	45 and Over		
	<i>Males</i>								
1920-24	3.13	24.66	32.21	17.73	10.24	5.43	6.60	100.00	
1925-29	3.49	28.04	34.49	14.33	7.70	4.48	7.47	100.00	
1930-34	3.46	27.28	37.02	15.14	6.10	3.61	7.39	100.00	
1935-39	2.68	25.91	38.26	16.46	6.75	3.22	6.72	100.00	
1948-52	4.41	34.03	31.06	12.02	6.60	3.87	8.01	100.00	
	<i>Females</i>								
1920-24	15.99	35.47	26.21	10.66	5.53	2.98	3.16	100.00	
1925-29	18.61	37.88	23.67	8.93	4.65	2.82	3.44	100.00	
1930-34	18.67	38.51	24.79	8.22	3.85	2.40	3.56	100.00	
1935-39	17.10	38.26	26.30	8.86	3.91	2.02	3.55	100.00	
1948-52	23.63	38.90	18.07	7.40	4.43	2.66	4.91	100.00	

A perusal of the above table reveals the fact that greater proportions of marriages are now being celebrated at the younger and, to a lesser extent, at the older age groups. This has become very marked in the 1948-52 period, and is mainly due to the fact that the outbreak of war induced a number of earlier marriages which has resulted in fewer unmarried people entering the middle-age groups.

For many years the average age (arithmetic mean) at marriage for both males and females, more particularly the latter, showed a tendency to increase. However, in recent years there has been very little change, the year to year fluctuations being within very narrow limits. The figures for each of the years 1945-52 are as follows.

Year	Bridegrooms (Years)	Brides (Years)
1945	30.52	26.75
1946	29.73	26.18
1947	29.71	26.11
1948	29.96	26.32
1949	29.89	26.30
1950	29.67	26.14
1951	29.42	25.96
1952	29.52	26.19

* Inclusive of Maoris.

The average ages of bachelors and spinsters at marriage are considerably lower than those shown in the preceding table, which covers all parties and is naturally affected by the inclusion of remarriages of widowed and divorced persons. The average ages of grooms and brides for each of the last five years according to marital status were as shown below.

Year	Bridegrooms			Brides		
	Bachelors	Divorced	Widowers	Spinsters	Divorced	Widows
1948	27.55	39.60	53.63	24.42	35.41	44.63
1949	27.42	39.89	52.82	24.31	35.42	45.46
1950	27.15	40.06	54.46	24.19	35.59	46.90
1951	26.95	40.77	53.93	23.97	36.19	47.05

* Inclusive of Maoris.

Year	Bridegrooms			Brides		
	Bachelors	Divorced	Widowers	Spinsters	Divorced	Widows
1952*	26.98	41.00	55.60	24.08	35.98	48.83

* Inclusive of Maoris.

The foregoing figures give the average ages at marriage, but these do not correspond with the modal or popular age, if the age at which the most marriages are celebrated may so termed. The modal age for brides (21) has remained unchanged for very many years, but in the case of bridegrooms the most popular age has varied, and for recent years it has been 23 or 24.

Marriages of Minors.—Of every 1,000 men married in 1952, 52 were under twenty-one years of age, while 251 in every 1,000 brides were under twenty-one.

In 639 marriages in 1952 both parties were given as under twenty-one years of age, in 3,649 marriages the bride was returned as a minor and the bridegroom as an adult, and in 235 marriages the bridegroom was a minor and the bride an adult.

The proportion of minors among persons marrying has been increasing over a fairly long period, and in the table below figures are given for the last five years. In the latest year (1952) one bride in every four was under twenty-one years of age, the proportion for grooms being one in twenty.

Year	Age, in Years					Totals	
	16	17	18	19	20	Number	Rate Per 100 Marriages
<i>Bridegrooms</i>							
1948	2	14	57	205	412	690	4.01
1949	2	26	68	168	412	674	4.02
1950	2	9	74	195	421	701	4.25
1951	3	13	63	222	457	758	4.63
1952*	2	26	103	254	489	874	5.18
<i>Brides</i>							
1948	102	326	699	1,163	1,485	3,775	21.95
1949	111	303	744	1,141	1,456	3,755	22.37
1950	100	301	777	1,274	1,513	3,965	24.02
1951	115	316	727	1,236	1,646	4,040	24.70
1952*	158	384	884	1,300	1,562	4,288	25.13

* Inclusive of Maoris.

MARRIAGES BY MINISTERS OF VARIOUS CHURCHES.—Of the 17,061 marriages registered in 1952, Church of England clergymen officiated at 4,334, Presbyterians at 4,428, Roman Catholics at 2,257, and Methodists at 1,453, while 3,384 marriages were celebrated before Registrars.

The following table shows the proportions of marriages by ministers of the largest churches and before Registrars in each of the years 1946-52.

Church	Percentage of Marriages						
	1946	1947	1948	1949	1950	1951	1952*
Presbyterian	28.35	28.26	28.86	28.07	28.31	27.91	25.95
Church of England	27.68	26.53	26.55	25.80	25.95	25.83	25.40
Roman Catholic	11.85	12.25	11.81	12.17	11.93	12.67	13.23
Methodist	9.78	9.58	9.25	9.19	9.32	8.53	8.52
Others	5.74	5.18	5.50	5.78	5.65	5.51	7.06
Before Registrars	16.60	18.20	18.03	18.99	18.84	19.55	19.84
Totals	100.00	100.00	100.00	100.00	100.00	100.00	100.00

* Inclusive of Maoris.

The foregoing figures must not be taken as an exact indication of the religious professions of the parties married, as it does not necessarily follow that both (or even one) of the parties are adherents of the Church whose officiating minister performed the ceremony, and persons married before Registrars may belong, in greater or lesser proportion, to any or none of the churches. Of the total population (inclusive of Maori) at the general census of 1951, 37.8 per cent were recorded as adherents of the Church of England, 24.3 percent Presbyterian, 13.6 percent Roman Catholic, 8.1 per cent Methodist, and 16.2 per cent of other religions or of no religion, or who objected to state their religious profession.

NUMBER OF OFFICIATING MINISTERS.—The number of names on the list of officiating ministers under the Marriage Act was (January 1953) 2,731, and the churches to which they belong are shown hereunder.

Church	Number
Roman Catholic Church	580
Church of England	506
Presbyterian Church of New Zealand	451
Methodist Church of New Zealand	327
Salvation Army	151
Ratana Church of New Zealand	149
Baptist	113
Seventh Day Adventist	52
Latter Day Saints	45
Ringatu Church.	44
Brethren	39
Associated Churches of Christ	34
Congregational Independent	30
Commonwealth Covenant Church	26
Assemblies of God	18
Jehovah's Witness	16
Apostolic Church	15
Liberal Catholic Church	14
Evangelistic Church of Christ	10
United Maori Mission	10
Churches of Christ	8
Evangelical Lutheran Concordia Conference	8
Pentecostal Church of New Zealand	8
Church of Te Kooti Rikirangi	7
Spiritualist Church of New Zealand	7
Absolute Maori Established Church	5
Hebrew Congregations	5
Others	53
Total	2,731

The Ratana Church of New Zealand, the Ringatu Church, the Absolute Maori Established Church, the United Maori Mission, and the Church of Te Kooti Rikirangi are Maori organizations.

DIVORCE.—The provisions as to dissolution of marriage are contained in the Divorce and Matrimonial Causes Act 1928 (which consolidated and amended the then existing legislation on the subject) and its later amendments.

A brief historical account of divorce legislation is given in the 1931 issue of the Year-Book; the present position is outlined in the following *résumé*.

Any married person domiciled in New Zealand (for two or more years in the case of restitution and separation, grounds (i), (j), (k), (l) below) at the time of filing the petition may obtain a divorce on one or more of the following grounds:

- Adultery since the celebration of the marriage.
- Wilful and continuous desertion for three years or more.
- Habitual drunkenness for four years, coupled with (wife's petition) failure to support or habitual cruelty, or with (husband's petition) neglect of, or self-caused inability to discharge, domestic duties.
- Since the celebration of the marriage the respondent has been convicted of attempting to commit the murder of the petitioner or any child (of any age) of the petitioner or respondent, or has been convicted of any offence under section one hundred and ninety-seven of the Crimes Act 1908 against the petitioner or any such child.
- Respondent has since the celebration of the marriage been convicted of murder.
- Insanity and confinement as a lunatic for seven out of ten years preceding the petition.
- Insanity for seven years, and confinement for three years immediately preceding the petition.
- Insanity and confinement as a lunatic for the five years immediately preceding the petition.
- Failure for three years or more to comply with a decree for restitution of conjugal rights.
- Parties have separated under an agreement, written or verbal, which has been in full force for not less than three years.
- Parties have been separated by a decree of judicial separation or a separation order which has been in force for three years. (An amendment in 1930 removed the restriction imposed by the principal Act—which permitted only New Zealand decrees or orders—and extended the provision to cover similar decrees or orders made in any country.)
- Parties are living apart, are unlikely to be reconciled, and have been living apart for not less than seven years.
- Husband guilty of rape, sodomy, or bestiality since marriage.

In cases based on separation of the parties, whether by order or agreement or otherwise, the Court is bound to dismiss the petition if the respondent opposes it and the Court is satisfied that the separation was due to the wrongful act or conduct of the petitioner; and in all those cases, as well as in cases where the ground is failure to comply with a decree for restitution of conjugal rights, the Court has in any event a discretion whether or not to grant a decree.

A deserted wife whose husband was domiciled in New Zealand at the time of desertion is considered, for the purpose of the Divorce and Matrimonial Causes Act 1928, as retaining her New Zealand domicile. Where a wife petitions on grounds (j), (k), and (l), her New Zealand domicile is retained if her husband was domiciled in New Zealand at the date of the agreement, decree, order, or commencement of separation.

The amending Act of 1953 establishes a New Zealand domicile for a wife petitioning for divorce where she has been living apart from her husband if he has been living in New Zealand for three years preceding the petition and has the intention of residing in New Zealand permanently.

Until the passing of the Divorce and Matrimonial Causes Amendment Act 1953 there were no statutory provisions as to nullity of marriage. This Act embodies the common law on the subject, with several additions to the grounds on which a marriage is voidable, and some changes.

The basis of the Court's jurisdiction in nullity is established as the domicile of either petitioner or respondent in New Zealand at the time of the filing of the petition, or the celebration of the marriage in New Zealand.

A petition for a nullity decree may be presented in respect of either a void, or a voidable marriage, the former being those which are invalid and of no effect whether or not a decree is obtained, and the latter those which are valid unless and until a decree is obtained.

Marriages are void in the following cases:

- Where at the time of the ceremony either party to the marriage was already married.
- Where, whether by reason of duress or mistake or insanity or otherwise, there was at the time of the marriage an absence of consent by either party to marriage to the other party.
- Where the parties are within the prohibited degrees of relationship as set out in the Marriage Amendment Act 1946.
- Where the marriage was not solemnized in due form.

Marriages are voidable on the following grounds:

- Incapacity or wilful refusal of the respondent to consummate the marriage.
- Mental deficiency of either party within the meaning of the Mental Defectives Act 1911 although that party was capable of consenting to the marriage.
- Veneral disease (of the respondent) in a communicable form.
- Pregnancy of the respondent by some person other than the petitioner.

In cases (b), (c), and (d) the facts alleged must have existed at the time of the marriage and proceedings must be instituted within a year of the marriage. The Court must be satisfied—

- That the petitioner was at the time of the marriage ignorant of the facts;
- That marital intercourse with the petitioner's consent has not taken place since the discovery of the existence of the grounds for a decree.

The Matrimonial Causes (War Marriages) Act 1947 made special provisions, in respect of war marriages (i.e., a marriage celebrated on or after 3 September 1939 but before 1 June 1950) where one of the parties was domiciled outside New Zealand by: (1) extension of jurisdiction of the Supreme Court to certain marriages irrespective of domicile; (2) recognition of decrees and orders (in relation to such marriages) made in the United States of America; and (3) shortening of the period of desertion or separation as ground for divorce in such cases from three years to twelve months.

By authority of the Act, previous legislation on the subject embodied in the Matrimonial Causes (War Marriages) Emergency Regulations 1946 was revoked, accrued rights being protected.

Figures showing the operations of the Supreme Court in its divorce jurisdiction during recent years are as follows. About 50 per cent of the decrees granted in any year relate to petitions filed in prior years.

Year	Dissolution or Nullity of Marriage		Judicial Separation		Restitution of Conjugal Rights	
	Petitions Filed	Decrees <i>Nisi</i> /Decrees Absolute	Petitions Filed	Decrees for Separation	Petitions Filed	Decrees for Restitution
1942	1,177	988	962	5	3	142
1943	1,641	1,398	1,100	4	1	302
1944	1,992	1,821	1,630	7	2	499
1945	2,211	1,915	1,725	11	2	550
1946	2,363	2,137	2,133	10	6	562
1947	2,191	2,051	2,117	7	1	430
1948	2,160	1,974	1,853	20	7	355
1949	2,001	1,824	1,892	15	1	331
1950	1,912	1,707	1,633	11	4	304
1951	1,882	1,666	1,582	11	7	263
1952	1,960	1,727	1,684	15	8	296

The later years of the war witnessed a marked increase in divorce. The high level of decrees absolute granted in 1945 was exceeded by approximately 400 in each of the two succeeding years. However, a slight falling off, for the first time in six years, was recorded in 1947 and continued in 1948. A small increase was shown in 1949, after which the decrease continued in 1950 and 1951, being quite substantial in the former year. In 1952, however, there was an increase over 1951 of 102, or 6.4 per cent.

It is worth noting that there was one divorce for every ten marriages solemnized in 1952, while the ratio in 1951 was one divorce to every eleven marriages.

The next table gives the grounds (dissolution or nullity cases) of petitions and decrees during 1951 and 1952.

Grounds	Petitions Filed	Decrees Absolute Granted

Grounds	Husbands' Petitions		Wives' Petitions		Husbands' Petitions		Wives' Petitions	
	1951	1952	1951	1952	1951	1952	1951	1952
	Husbands' Petitions	Wives' Petitions	Husbands' Petitions	Wives' Petitions	Husbands' Petitions	Wives' Petitions	Husbands' Petitions	Wives' Petitions
	1951	1952	1951	1952	1951	1952	1951	1952
Adultery	218	277	138	153	163	183	112	102
Bigamy	1	3	5	2		2	3	3
Desertion	153	165	166	173	125	143	131	136
Drunkenness with cruelty, failure to maintain, etc.	2	2	8	5	1		4	1
Insanity	9	15	4	4	6	10	6	6
Consanguinity					1			1
Non-compliance with order for restitution of conjugal rights	158	136	51	49	147	134	59	45
Separation for not less than three years	411	415	548	555	344	386	472	527
Non-consummation	6	2	3	3	1		4	5
Murder of children			1				1	
Totals	958	1,015	924	945	789	859	793	825

The figures shown for decrees absolute cover all such granted during the year, whether the antecedent decree *nisi* was granted in the same or in a previous year. It should be mentioned here, and a glance at the line "non-compliance, etc.," in the table above will show, that the number of decrees absolute granted can, and often do, number more than the petitions filed. The reason for this is that all decrees granted are not necessarily from petitions filed in a particular year. The petition may have been filed in one year but the case not heard until the succeeding year.

Mention should be made here of the fact that over a period of five years, 1948–52 inclusive, the average percentage of decrees absolute granted on wives' petitions was greater than those granted to husbands. The figures are—wives 89.2 per cent, husbands 85.3 per cent.

The principal grounds on which petitions were filed during 1952 showed the following increases compared with 1938, a normal pre-war year: adultery, 227 (111.8 per cent); desertion, 126 (59.4 per cent); non-compliance with restitution order, 76 (69.7 per cent); and separation, 335 (52.8 per cent).

In 627 of the 1,960 cases where petitions for dissolution were filed during 1952 there was no living issue of the marriage. The number of living issue was 1 in 558 cases, 2 in 378 cases, 3 in 207 cases, 4 or more in 186 cases, while the number of issue was not stated in four cases.

The table which follows shows the duration of marriage in all cases for which petitions for dissolution were filed in the five years 1948 to 1952.

Duration of Marriage, in Years	Husbands' Petitions					Wives' Petitions				
	1948	1949	1950	1951	1952	1948	1949	1950	1951	1952
Under 5	197	204	191	192	168	169	137	141	147	139
5 and under 10	308	334	296	263	312	340	282	255	279	301
10 and under 15	243	198	212	203	222	243	217	202	203	186
15 and under 20	126	128	121	104	126	133	114	128	112	133
20 and under 30	162	148	139	142	128	141	127	121	134	134
30 and over	56	55	55	48	56	34	36	43	47	40
Not stated	7	11	3	6	3	1	10	5	2	2
Totals	1,099	1,078	1,017	958	1,061	923	895	924	945	

The number of children affected by the divorce petitions of their parents during each of the last five years was as follows: 1948, 3,108; 1949, 2,885; 1950, 2,682; 1951, 2,784; and 1952, 2,858.

4 C—DEATHS

REGISTRATION.—The law as to registration of deaths is now embodied in the Births and Deaths Registration Act 1951, a consolidation of the then existing legislation. Particulars required in the registration of a death include date, place of residence and domicile, name, occupation, sex, age, cause of death, birthplace, duration of residence in New Zealand, whether cremated or not, marital status, living issue of married persons, race (European or Maori), medical attendant by whom certified, particulars as to burial, and, in the case of married males, age of widow.

Every death occurring in New Zealand is required to be registered within three days after the day of the burial. There is a penalty up to £10 for neglect, the funeral director in charge of the burial being solely responsible for registration. When an inquest is held the Coroner becomes responsible for registration, the time allowed being three days after the conclusion of the inquest. The Coroner may, in writing, authorize an agent to attend to registration on his behalf. Registrations must not be effected before the conclusion of the inquest.

Where the Coroner decides not to hold an inquest the funeral director is responsible for registration of the death.

The law does not impose any limit of time after which a death may not be registered as it does in the case of a birth. Although it is necessary to effect a birth-registration entry in the case of a still-born child, no entry is made in the register of deaths. The principal Act stipulates, however, that a medical practitioner or a midwife in attendance at a confinement where a still-birth occurs must furnish a certificate stating to the best of his or her knowledge and belief the cause of the stillbirth.

New provisions in the 1951 Act include prohibition of burial at sea of a person dying in New Zealand except upon the authority of a Coroner, and provide for the registration of the death of a person whose body is removed for anatomical examination under Part II of the Medical Act 1908, or is removed for burial outside New Zealand.

Any person burying, or permitting or taking part in the burial of the body of any deceased person without a certificate of cause of death signed by a duly registered medical practitioner, or a Coroner's order to bury the body, renders himself liable to a fine of £50.

From 1 April 1952 (reverting to the system followed prior to 1937) it is incumbent upon a medical practitioner to give the certificate of cause of death to the person required to supply information for the purpose of registering the death (the funeral director in charge of the burial). During the intervening period the medical practitioner was required to deliver the certificate direct to the Registrar. The practitioner is required to report forthwith to the Coroner any case where, in his opinion, the death has occurred in any circumstances of suspicion.

The Act provides for the correction of errors (clerical, of fact, of substance, or of omission) in the register in the manner authorized by the Registrar-General.

Deaths of Members of the Forces while Overseas.—The Registration of Deaths Emergency Regulations 1941, which superseded 1940 regulations of similar title, required the Registrar-General to compile a War Deaths Register of persons of New Zealand domicile who died while out of New Zealand on service in some capacity in connection with the Second World War. Members of the New Zealand Naval Forces were excluded from the regulations, special provision having previously been made in their case. These regulations were revoked by the Births and Deaths Registration Amendment Act 1947, which made statutory provision in this connection. The amendment required the Registrar-General to compile a register of all persons who have died while out of New Zealand on service with any of the Armed Forces of Her Majesty and who at the time of their deaths were domiciled in New Zealand. Deaths registered in the War Deaths Register were not taken into account in arriving at the number and rate of deaths in New Zealand, nor were deaths of visiting overseas servicemen or prisoners of war in New Zealand. Deaths of New Zealand servicemen which occurred in New Zealand were, however, included. The Births and Deaths Registration Act 1951 requires the Registrar-General to compile a register containing particulars of all persons who have died while out of New Zealand on service with any Commonwealth force within the meaning of the Army Act 1950 and who at the time of their deaths were domiciled in New Zealand.

Registration of Maori Deaths.—Registration of the deaths of Maoris are effected with the Maori Registrars in the various districts set up for this purpose. Statistics relating to the deaths of Maoris are not included in this subsection, but are fully covered in Section 4D.

NUMBERS AND RATES.—The following table shows the number of deaths and the death rate per 1,000 of the mean population during each of the last twenty years.

Year	Number	Rate Per 1,000 of Mean Population
1933	11,701	7.99
1934	12,527	8.50
1935	12,217	8.25
1936	13,056	8.75
1937	13,658	9.08
1938	14,754	9.71
1939	14,158	9.20
1940	14,282	9.24
1941	15,146	9.84
1942	16,385	10.60
1943	15,447	10.04

Year	Number	Rate Per 1,000 of Mean Population
1944	15,363	9.87
1945	16,051	10.07
1946	16,093	9.71
1947	15,904	9.39
1948	15,812	9.16
1949	16,012	9.09
1950	16,715	9.31
1951	17,512	9.56
1952	17,413	9.28

New Zealand has been noted for many years for its favourable death rate. The fact that the death rate is still comparatively very low, despite the older age constitution of the population, is probably due, *inter alia*, to improvements in medical techniques, expansion of health services, etc. This progress has been reflected, for example, in a relatively low incidence of serious outbreaks of the more important epidemic diseases (which were much more prevalent in the early years of colonization) and in a remarkably low infant-mortality rate.

The general trend of the death rate in New Zealand was for many years downward, reaching its lowest level during the depression years of the early "thirties." Since then an upward trend has been in evidence, and the figures recorded during the war years were the highest for a long time. It is possible that the absence overseas of considerable numbers of men of early adult age, at which mortality experience is the most favourable, would have some effect on the rates established. The strains of wartime would also have some effect on deaths in the older age groups; in fact, the high rate of 1942 disclosed a sharp rise in deaths resulting from diseases of the heart and nervous system. For four years following 1945 a downward trend was again in evidence—the 1949 figure being the lowest since 1937—but although small increases have been recorded in 1950 and 1951, the 1952 rate again shows a decrease.

The death rates of males and females for the last eleven years are shown separately in the next table.

Year	Deaths Per 1,000 of Mean Population			Male Deaths to Every 100 Female Deaths	Male Rate Expressed as Index Number of Female Rate (≠ 100)
	Males	Females	Totals		
1942	11.80	9.47	10.60	119	125
1943	11.36	8.81	10.04	119	129
1944	11.32	8.53	9.87	123	133
1945	11.37	8.84	10.07	122	129
1946	10.55	8.86	9.71	118	119
1947	10.50	8.28	9.39	127	127
1948	10.17	8.14	9.16	125	125
1949	9.94	8.24	9.09	121	120
1950	10.23	8.38	9.31	123	122
1951	10.50	8.62	9.56	121	121
1952	10.12	8.44	9.28	121	120

COMPARISON WITH OTHER COUNTRIES.—An international comparison of death rates is made in the following table. They are the average of the five years 1948-52 and are taken from the *Monthly Bulletin of Statistics* issued by the United Nations.

Country	Rates Per 1,000 of Population	Country	Rates Per 1,000 of Population
Israel	6.6	Switzerland	10.4
Netherlands	7.6	Japan	10.7
Norway	8.7	Spain	11.0
Union of South Africa*	8.8	United Kingdom	11.7
Denmark	8.9	Costa Rica	12.3
Argentina	9.0	Austria	12.4
Canada	9.0	Ceylon	12.4
New Zealand	9.3	Portugal	12.7
Australia	9.6	Republic of Ireland	12.8
United States of America	9.7	France	12.9
Sweden	9.9	Yugoslavia	13.2
Italy	10.2	India	15.4
Finland	10.4	Chile	16.1
Puerto Rico	10.4	Mexico	16.6

* European population only.

DISTRIBUTION OF DEATHS OVER THE YEAR.—An examination of the total number of deaths registered in each quarter of the period 1942-52 gives the following averages: March quarter, 3,493; June quarter, 3,989; September quarter, 4,720; and December quarter, 4,044.

A classification according to month of death shows that in 1952 the months during which the greatest number of deaths occurred were August, July, and June, with totals of 1,980, 1,761, and 1,548 respectively. Excluding December, a proportion of deaths occurring in that month not being registered till January, February had the least number of deaths, 1,159, followed by April and January, with 1,202 and 1,282 respectively.

The lowest number of deaths on any one day, again excluding December, was 23, this number occurring on 21 January. The greatest number (84) occurred on 5 August.

AGE AT DEATH.—The deaths registered during the year 1952 are tabulated below according to age.

Age	Males	Females	Totals	Age	Males	Females	Totals
Under 1 month	366	338	704	45-49 years	294	223	517
1-2 months	57	39	96	50-54 years	451	334	785
3-5 months	63	46	109	55-59 years	566	410	976
6-11 months	67	38	105	60-64 years	828	629	1,457
1 year	43	40	83	65-69 years	1,286	875	2,161
2 years	37	27	64	70-74 years	1,475	1,186	2,661
3 months	19	19	38	75-79 years	1,351	1,263	2,614
4 months	19	15	34	80-84 years	996	986	1,982
5-9 months	58	46	104	85-89 years	527	638	1,165
10-14 months	52	23	75	90-94 years	148	196	344
15-19 months	79	33	112	95-99 years	24	55	79
20-24 months	113	34	147	100 years	2	3	5
25-29 months	116	61	177	101 years		1	1
30-34 months	127	63	190	102 years		1	1
35-39 months	160	115	275	105 years		1	1
40-44 months	202	148	350	115 years		1	1
			Totals	9,527	7,886	17,413	

The following table indicates the changes that have occurred since 1930 in the age distribution of persons dying. The movement in the proportions of deaths occurring at the different age groups is very striking. The results of three main factors are illustrated—viz., health measures, which have achieved an immense saving of young life; the fluctuations in the birth rate over the period; and the great increase in the proportion of old people in the community.

Age, in Years	Number of Deaths				Percentage of Total			
	1930	1940	1950	1952	1930	1940	1950	1952
Under 1	924	990	1,008	1,014	7.57	6.93	6.03	5.82
1 and under 5	327	205	199	219	2.68	1.44	1.19	1.26
5 and under 10	167	98	87	104	1.37	0.69	0.52	0.60
10 and under 15	105	108	64	75	0.86	0.76	0.38	0.43
15 and under 20	222	151	120	112	1.82	1.06	0.72	0.64
20 and under 25	315	247	158	147	2.58	1.73	0.95	0.84
25 and under 30	337	270	142	177	2.76	1.89	0.85	1.01
30 and under 35	337	290	191	190	2.76	2.03	1.14	1.09
35 and under 40	374	320	275	275	3.07	2.24	1.65	1.58
40 and under 45	478	362	328	350	3.92	2.53	1.96	2.01
45 and under 50	640	472	522	517	5.25	3.30	3.12	2.97
50 and under 55	794	798	697	785	6.51	5.59	4.17	4.51
55 and under 60	881	1,145	1,021	976	7.22	8.02	6.11	5.62
60 and under 65	1,003	1,461	1,503	1,457	8.22	10.23	8.99	8.37
65 and under 70	1,077	1,697	2,170	2,161	8.83	11.88	12.98	12.41
70 and under 75	1,171	1,772	2,536	2,661	9.60	12.41	15.17	15.28
75 and under 80	1,242	1,556	2,316	2,614	10.18	10.89	13.86	15.01
80 and over	1,805	2,340	3,378	3,579	14.80	16.38	20.21	20.55
Totals	12,199	14,282	16,715	17,413	100.00	100.00	100.00	100.00

During the earlier period covered by the next table the fall in the death rate was common to all ages and to both sexes. In more recent years, however, there have been some fluctuations in the rates for the higher age groups, but the 1952 figures again reflect a declining tendency. Of special significance are the low rates recorded in the childhood and early adult life age groups in 1951 and 1952 and the high percentage reduction effected during the entire period. The female rate for the various age groups is almost invariably lower than the male rate. The rapid increase in the death rate (per 1,000 of population) at successive age groups is well exemplified.

Year	Under 1*	1 and Under 5	5 and Under 15	15 and Under 25	25 and Under 35	35 and Under 45	45 and Under 55	55 and Under 65	65 and Under 75	75 and Over
<i>Males</i>										
1901	78.60	6.81	1.89	3.52	3.97	6.16	11.94	22.12	50.59	141.67
1911	63.48	5.36	1.91	2.42	3.87	6.27	11.02	20.83	53.22	130.58
1921	53.10	4.78	1.85	2.44	3.56	5.55	9.61	19.96	46.17	128.60
1931	38.21	2.83	1.35	2.28	2.77	4.64	8.69	18.25	44.18	130.57
1941	32.55	2.14	0.99	1.98	2.62	3.76	8.79	20.67	46.31	137.85
1951	26.49	1.40	0.64	1.54	1.82	2.93	7.20	20.04	46.90	127.33
1952	23.22	1.35	0.66	1.50	1.75	2.77	7.00	18.41	46.56	119.33
<i>Females</i>										
1901	63.87	5.50	1.64	3.58	4.72	6.70	10.62	19.44	43.32	127.98
1911	48.74	5.37	1.48	2.76	4.34	4.92	8.38	17.89	40.44	119.60
1921	42.31	4.49	1.31	2.34	3.38	4.46	8.00	14.88	36.81	120.23
1931	25.67	2.47	0.97	1.85	3.20	3.81	6.84	15.36	36.83	122.87
1941	26.85	2.04	0.71	1.35	2.05	3.14	6.58	14.55	38.06	116.57
1951	18.81	1.19	0.36	0.73	1.17	2.04	5.29	13.27	32.35	113.75
1952	20.35	1.20	0.43	0.55	0.91	2.04	5.40	12.58	32.00	104.52
<i>Both Sexes</i>										
1901	71.40	6.17	1.77	3.55	4.33	6.40	11.37	21.63	47.87	135.71
1911	56.31	5.36	1.70	2.58	4.09	5.64	9.82	19.55	47.74	126.13
1921	47.82	4.64	1.58	2.39	3.47	5.10	8.85	17.59	41.90	124.84
1931	32.15	2.65	1.17	2.07	2.98	4.22	7.80	16.88	40.56	126.87
1941	29.77	2.09	0.85	1.65	2.32	3.44	7.65	17.68	42.20	126.76
1951	22.77	1.30	0.50	1.15	1.49	2.49	6.26	16.52	39.36	119.96
1952	21.82	1.27	0.55	1.03	1.34	2.41	6.21	15.37	38.98	111.32

* Per 1,000 live births in this case.

The average (arithmetic mean) age at death of persons of either sex at ten-yearly intervals since 1901 and during each of the last five years was as follows.

Year	Males (Years)	Females (Years)
1901	41.64	37.68
1911	46.17	42.37
1921	48.45	46.97
1931	54.14	55.48
1941	58.65	59.60
1948	61.62	62.33
1949	60.43	62.94
1950	62.15	64.37
1951	61.58	65.25
1952	62.16	64.89

There has been a striking upward movement in the average age at death since 1901. A noticeable feature is that in the earlier years the age for females was considerably lower than that for males, the margin gradually narrowing until virtual equality was reached in 1927-28, since when the female average age at death has been higher than the male.

EXPECTATION OF LIFE.—Life tables for the European section of the population based on the mortality experience of New Zealand, ranging from 1880 to 1938, have been published at various times in previous issues of the Year-Book. The latest investigation was based on the 1951 census combined with the deaths for the three years 1950-52, and the (complete) expectation of life at various ages is given below. Complete results, accompanied by a brief account of the methods employed in the construction of the table, will be found in the Special Supplement to the July 1953 issue of *Monthly Abstract of Statistics*.

Age	Males	Females
0	68.29	72.43
1	69.03	72.90
2	68.17	72.05
3	67.27	71.12
4	66.33	70.18
5	65.39	69.23
10	60.60	64.37
20	51.15	54.64
30	41.89	45.06
40	32.65	35.64

Age	Males	Females
50	23.83	26.68
60	16.19	18.53
70	10.05	11.46
80	5.55	6.16

The expectation of life at age 0 has risen by 13.00 years in the case of males and by 14.34 years in the case of females over the period since the first New Zealand life table of 1891–95. The effect of the lowered infant-mortality rate and the efficacy of the health services generally is clearly demonstrated, however, by the fact that at age 5 the expectation of life of males has increased by only 7–10 years and females by 9.20 years over the same period.

A brief comparison is quoted below.

Period	Males (Years)	Females (Years)
1891–1895	55.29	58.09
1896–1900	57.37	59.95
1901–1905	58.09	60.55
1906–1910	59.17	61.76
1911–1915	60.96	63.48
1921–1922	62.76	65.43
1925–1927	63.99	66.57
1931	65.04	67.88
1934–38	65.46	68.45
1950–52	68.29	72.43

The above tables are exclusive of Maoris. A table showing the expectation of life of the Maori population is given in Section 4D.

A comparison of the expectation of life at age 0 for various countries is now given. In selecting comparable tables from the experience of other countries due regard was had to securing the most recent figures available. The countries selected are for the most part those of similar racial stock.

Country	Males	Females
New Zealand (1950–52)*	68.29	72.43
Australia (1946–48)	66.07	70.63
Union of South Africa (1945–47)†	63.78	68.31
England and Wales (1951)	65.84	70.88
United States of America (1950)†	66.6	72.4
Norway (1945–48)	67.76	71.68
Netherlands (1947–49)	69.4	71.5
Denmark (1946–50)	67.8	70.1
Sweden (1941–45)	67.06	69.71
Finland (1941–45)	54.62	61.14
France (1946–49)	61.9	67.4
Switzerland (1939–44)	62.68	66.96
Canada (1947)	65.18	69.05

* Exclusive of Maoris.

† White population.

STANDARDIZED DEATH RATES.—Except where specifically stated, all death rates quoted throughout this section are crude rates—i.e., those ascertained by applying the mean population for the year to the total deaths registered during the year.

In New Zealand the age and sex constitutions of the people have changed very materially over the years, so that death rates for recent years relate to a differently constituted population than do death rates for earlier years. This factor has had a marked influence on the risks—and causes—of dying. In order to eliminate the effect of a changing age constitution from other causes influencing the death rate, the device of standardization is resorted to. The principle of this method is to compute death rates on the assumption that the sex and age composition of the population has not varied. A "standard" population is selected, and the mortality experience of any particular year is weighted according to the age distribution of that standard population.

The standardized death rates thus calculated for each of a number of countries, or for a number of years for the same country, may then be regarded as indices of the relative mortalities free from the distortion which might arise through differences in their respective sex or age constitutions. A comparison of the relative proportions of population in various age groups between New Zealand and the United Kingdom, for instance, shows this country to have higher proportions in the age groups under 30, while the United Kingdom has higher proportions in the age groups over 30 years.

A system of standardization of death rates was introduced some years ago in New Zealand, the age and sex constitution of the population as disclosed at the census of 1911 being taken as the basis. The following table gives both recorded and standardized death rates per 1,000 of population (on the 1911 standard population) for each fifth year from 1920 to 1950 and for the year 1952.

Year	Recorded Rates			Standardized Rates		
	Males	Females	Totals	Males	Females	Totals
1920	11.11	9.15	10.15	10.83	8.84	9.89
1925	9.10	7.48	8.30	8.68	6.78	7.78
1930	9.42	7.69	8.57	8.66	6.48	7.63
1935	8.95	7.52	8.25	7.68	5.78	6.78
1940	10.18	8.28	9.24	7.95	5.67	6.87
1945	11.37	8.84	10.07	7.96	5.40	6.75
1950	10.23	8.38	9.31	6.94	4.55	5.81
1952	10.12	8.44	9.28	6.88	4.44	5.73

INFANT MORTALITY.—Over a long period of years New Zealand has been renowned for its low rate of infant mortality, a fact attributable partly to such matters as climate, virility of the race, comparative absence of densely settled areas, etc., and partly to legislative and educative measures—the latter conducted by the State as well as by various organizations (one of the most important of these is the Royal New Zealand Society for the Health of Women and Children which was founded in 1907).

Particulars of deaths of infants under one year of age for each of the years 1942–52 are shown in the following table.

Year	Number			Rate Per 1,000 Live Births		
	Males	Females	Totals	Males	Females	Totals
1942	587	377	964	34.0	23.1	28.7
1943	551	400	951	35.0	27.4	31.4
1944	578	434	1,012	33.6	26.5	30.1
1945	607	429	1,036	32.0	23.8	28.0
1946	631	462	1,093	29.3	22.7	26.1
1947	624	498	1,122	27.3	22.7	25.0
1948	569	401	970	25.2	18.6	22.0
1949	600	446	1,046	26.4	21.0	23.8
1950	569	439	1,008	25.1	20.3	22.8
1951	611	406	1,017	26.5	18.8	22.8
1952	553	461	1,014	23.2	20.4	21.8

In the following table New Zealand's infant-mortality rate is shown in comparison with that of other countries. The figures are taken from the United Nations *Monthly Bulletin of Statistics*. It is interesting to observe that the distinction of having the lowest infant-mortality rate in the world now belongs to Sweden, which achieved the phenomenally low ratio of 20 infant deaths per 1,000 live births in 1952, as compared with New Zealand's 22 for the same year. In the case of the Union of South Africa and New Zealand the European population only has been taken into account.

Country	Quinquennium/Deaths Under 1 Year Per 1,000 Births	
	1948–52	1948–52
Sweden	1948–52	21
New Zealand	1948–52	23
Australia	1947–51	26
Netherlands	1948–52	26
United States of America	1948–52	30
Norway	1949–50	31
United Kingdom	1948–52	32
Switzerland	1947–51	34
Denmark	1947–51	34
Union of South Africa	1948–52	36
Israel	1948–52	42
Canada	1947–51	42
Finland	1947–51	47
Republic of Ireland	1947–51	52
West German Federal Republic	1948–52	56
Belgium	1947–51	61
France	1946–50	62
Japan	1947–51	64
Cyprus	1947–51	66
Austria	1948–52	67
Italy	1948–52	68
Spain	1948–52	69
Czechoslovakia	1946–50	88
Ceylon	1947–51	90
Mexico	1947–51	100
Portugal	1947–51	101
India	1946–50	134
Egypt	1945–49	139
Chile	1947–51	158
Rumania	1943–47	179

The male rate of infant mortality is considerably above the female rate, the average over the five-year period 1948–52 being 25.3 male deaths per 1,000 male births and 19.8 female deaths per 1,000 female births.

The rates per 1,000 births for the two sexes combined at different ages during the first year of life are now given for each of the last eleven years.

INFANT-MORTALITY RATES, 1942–52 (PER 1,000 LIVE BIRTHS)

Year	Under One Day	One Day and Under Two Days	Two Days and Under One Week	Total Under One Week	One Week and Under Two Weeks	Two Weeks and Under Three Weeks	Three Weeks and Under One Month	Total Under One Month	One Month and Under Twelve Months	Total Under One Year
1942	7.7		5.3	15.6	1.6	0.8	0.7	18.7	10.0	28.7
1943	8.4	3.6	5.8	17.8	2.0	0.8	0.7	21.3	10.1	31.4
1944	8.6	2.5	5.5	16.6	2.3	1.3	0.4	20.6	9.5	30.1
1945	8.4	2.5	5.4	16.3	1.9	0.8	0.6	19.6	8.4	28.0
1946	8.2	3.0	4.9	16.1	1.8	0.7	0.5	19.1	7.0	26.1
1947	8.0	3.0	4.5	15.5	1.4	0.7	0.5	18.1	6.9	25.0
1948	6.7	2.9	4.1	13.7	1.1	0.6	0.4	15.8	6.2	22.0
1949	8.2	3.0	4.0	15.2	1.0	0.5	0.3	17.0	6.8	23.8
1950	7.3	3.1	4.2	14.6	1.2	0.6	0.2	16.6	6.2	22.8
1951	6.9	2.8	4.9	14.6	1.0	0.2	0.3	16.2	6.6	22.8
1952	6.3	2.4	4.3	13.0	1.2	0.4	0.5	15.1	6.7	21.8

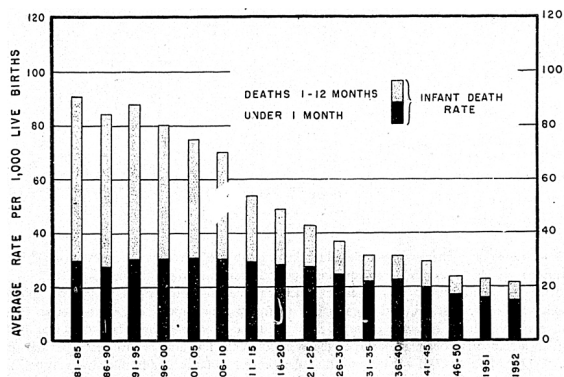
Infants who die in the first year of life may be grouped roughly into two main classes—viz., those dying within one month of birth and those surviving the first month of life but dying before the first anniversary of their birth. Deaths amongst the first class, called neo-natal deaths, are due principally to pre-natal and natal influences. The second group covers those infants who have succumbed in the main to causes arising from post-natal influences such as the various epidemic diseases, diseases of the respiratory system, faulty feeding, and other environmental factors.

The next table shows that, whereas in the quinquennium 1946–50 the death rate for children under one month of age was 42 per cent lower than in the quinquennium 1881–85, the rate for children who had survived the first month of life was only approximately one-ninth as high as in the "eighties."

In other words, whereas formerly over sixty children out of every 1,000 who survived the first month of life died before reaching one year of age, now only seven such deaths occur. While the decline in the under-one-month group has been progressive for some years, it was among infants who had survived the first month of life that the most marked reductions were achieved. In the "thirties," however, the reduction of this rate was arrested, and in the quinquennium 1941–45 an increase was recorded for the first time. For some years it had been considered that any further substantial decrease in the total infant-mortality rate would have to be achieved in the under-one-month group. The figures for 1946–50, however, indicate that whereas this group recorded a decrease of 13 per cent from 1941–45, the one-month-and-over group declined by 31 per cent.

Period	Deaths Per 1,000 Births	
	Under 1 Year	Under 1 Month Between 1 and 12 Months
1881–1885	90.60	29.77
1886–1890	84.09	27.57
1891–1895	87.60	30.34
1896–1900	80.06	30.38
1901–1905	74.77	30.64
1906–1910	69.62	30.28
1911–1915	53.63	29.28
1916–1920	48.62	28.16
1921–1925	42.75	27.48
1926–1930	36.70	24.82
1931–1935	31.88	22.34
1936–1940	31.83	22.51
1941–1945	29.53	20.01
1946–1950	23.92	17.31
1952	21.82	15.15

The accompanying diagram further illustrates the reduction in the infant-mortality rate that has taken place over a long period.



Causes of Infant Mortality.—The principal causes of infant mortality over the last ten years, showing both numbers and rates per 1,000 live births, are shown in the following table. The classification is according to the Sixth (1948) Revision of the International List.

Causes of Death	Number of Deaths									
	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
Tuberculosis, all forms	4	6	8	5	6	3	5		1	4
Congenital syphilis	7	5	2	2			1	4		1
Enteric fever and other Salmonella infections									3	
Dysentery, all forms				1			1			
Diphtheria	2	5	8	10	5			2		
Whooping-cough	10	32	5	1	20	4	12	12	4	6
Meningococcal infections	10	5	8	9	2	4		2	5	10
Tetanus			2	4				1		
Polioomyelitis	2									
Measles	2		3	1	1		3	1		2
Influenza, pneumonia, and bronchitis after the first four weeks of life	90	73	61	72	80	74	85	53	96	79
Pneumonia of the newborn	19	19	32	27	25	31	26	22	30	22
Gastro-enteritis after the first four weeks of life	26	28	18	29	21	21	17	15	26	10
Diarrhoea of the newborn	4	6	5	6	5	2	3	3		1
Congenital malformations	147	165	182	181	190	159	163	198	151	205
Birth injury	83	103	115	130	154	167	158	142	146	118
Asphyxia and atelectasis	61	64	77	93	100	102	111	128	164	174
Hæmolytic disease of newborn (erythroblastosis)	29	34	29	34	37	35	30	50	38	34
Immaturity unqualified	249	284	274	311	276	193	238	223	191	191
Accidents	34	33	33	35	38	44	52	30	33	26
Other and undefined causes	174	150	174	142	162	130	137	122	131	129
Totals	951	1,012	1,036	1,093	1,122	970	1,046	1,008	1,017	1,014
Causes of Death	Rates Per 1,000 Live Births									
	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
Tuberculosis, all forms	0.1	0.2	0.2	0.1	0.1	0.1	0.1			0.1
Congenital syphilis	0.2	0.2	0.1	0.1				0.1		*
Enteric fever and other Salmonella infections									0.1	
Dysentery, all forms				*			*			
Diphtheria	0.1	0.2	0.2	0.2	0.1			0.1		
Whooping-cough	0.3	1.0	0.1	*	0.5	0.1	0.3	0.3	0.1	0.1
Meningococcal infections	0.3	0.2	0.2	0.2	*	0.1		0.1	0.1	0.2
Tetanus			0.1	0.1				*		*
Polioomyelitis	0.1									0.1
Measles			0.1	*	*		0.1	*		0.1
Influenza, pneumonia, and bronchitis after the first four weeks of life	3.0	2.2	1.7	1.7	1.8	1.7	1.9	1.2	2.2	1.7
Pneumonia of the newborn	0.6	0.6	0.9	0.6	0.6	0.7	0.6	0.5	0.6	0.5
Gastro-enteritis after the first four weeks of life	0.9	0.8	0.5	0.7	0.5	0.5	0.4	0.3	0.6	0.2
Diarrhoea of the newborn	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1		*
Congenital malformations	4.9	4.9	4.9	4.3	4.2	3.6	3.7	4.5	3.4	4.4
Birth injury	2.7	3.1	3.1	3.1	3.4	3.8	3.6	3.2	3.3	2.5
Asphyxia and atelectasis	2.0	1.9	2.1	2.2	2.2	2.3	2.5	2.9	3.7	3.7
Hæmolytic disease of newborn (erythroblastosis)	1.0	1.0	0.8	0.8	0.8	0.8	0.7	1.1	0.9	0.7
Immaturity unqualified	8.2	8.5	7.4	7.4	6.2	4.4	5.4	5.1	4.3	4.1
Accidents	1.1	1.0	0.9	0.8	0.9	1.0	1.2	0.7	0.7	0.6
Other and undefined causes	5.7	4.5	4.7	3.4	3.6	2.9	3.1	2.8	2.9	2.8
Totals	31.4	30.1	28.0	26.1	25.0	22.0	23.8	22.8	22.8	21.8

* Less than 0.1.

Some remarkable changes are disclosed by the next table, which gives the infant-mortality rates for various groups of causes in quinquennial periods commencing with the years 1872-76 and for 1952. It would appear that diseases which can be combated openly, such as epidemic diseases, respiratory diseases, and diseases due to faulty nourishment, etc. (i.e., diseases of the digestive system), have shown a definite response to the strenuous campaigns launched against them. If a comparison be made between the averages of the first and last five-yearly periods given—i.e., 1872-76 and 1947-51—it is found that the general infant-mortality rate shows a decline of 74 per cent, while even greater decreases are recorded for tuberculosis (98 per cent), convulsions (99 per cent), gastric and intestinal diseases (95 per cent), epidemic diseases (92 per cent), and respiratory diseases (78 per cent). The rate for epidemic diseases still continues to decline, and it is interesting to note that over 40 per cent of the total under this heading in the years 1947-51 were due to whooping-cough, while an additional 27 per cent were assigned to influenza. During the five-year period 1948-52 there were only two deaths of infants from diphtheria and three deaths due to scarlet fever and streptococcal sore throat.

The increase shown for malformations and the decrease for tuberculosis are probably somewhat less than is indicated by the figures. In the earlier years covered by the table the latter heading included all deaths from hydrocephalus, many of which were no doubt due to congenital hydrocephalus, which is now included among the malformations. A proportion of the deaths from hydrocephalus in the earlier years would also probably be due to meningitis. The following table shows quinquennial average death rates of infants under one year of age per 1,000 live births. To enable the comparison with past years to be maintained, the infant deaths for 1950 onwards have been re-assembled to conform to the former classifications for the purposes of this table—i.e., influenza deaths have been included under epidemic diseases, while both pneumonia and diarrhoea of the newborn have been included under respiratory and gastric and intestinal diseases respectively, and not as diseases of early infancy.

Period	Epidemic Diseases	Tuberculosis	Infantile Convulsions	Respiratory Diseases	Gastric and Intestinal Diseases	Malformations	Early Infancy	Other Causes	Totals
1872-1876	13.5	5.5	9.7	12.9	24.2	1.2	25.0	17.3	109.3
1877-1881	10.2	5.2	7.5	12.3	19.8	1.4	21.9	15.3	93.6
1882-1886	9.3	4.7	7.9	11.8	19.1	1.2	25.5	12.3	91.8
1887-1891	8.9	3.7	6.3	10.5	18.5	1.3	24.7	8.8	82.7
1892-1896	9.8	3.3	6.6	11.0	16.6	1.4	24.9	11.2	84.8
1897-1901	6.1	2.6	5.6	10.0	17.2	1.5	26.2	9.7	78.9
1902-1906	5.5	1.5	4.1	9.7	15.3	1.3	27.6	7.9	72.9
1907-1911	5.9	1.3	3.3	7.6	15.5	1.9	26.7	6.3	68.5
1912-1916	3.6	0.6	2.2	5.1	7.4	3.9	26.2	3.5	52.5
1917-1921	3.2	0.5	1.9	4.7	4.5	4.3	26.1	2.9	48.1
1922-1926	1.8	0.4	1.3	4.3	2.8	4.8	22.4	3.3	41.1
1927-1931	1.5	0.3	0.5	3.7	1.7	5.0	19.4	3.1	35.2
1932-1936	1.5	0.2	0.6	3.3	1.2	5.0	17.5	2.4	31.7
1937-1941	1.4	0.2	0.2	3.1	1.3	5.5	17.4	2.5	31.6
1942-1946	1.1	0.1	0.1	2.9	1.2	4.6	16.1	2.6	28.7
1947-1951	0.6	0.1	0.1	2.3	0.8	3.8	13.6	2.0	23.3
1952	0.6	0.1	0.1	2.3	0.4	4.4	12.2	1.7	21.8

It is convenient to consider still-births and neo-natal deaths together, as they are largely the result of common causes. The combined group may be termed perinatal mortality. The term is particularly appropriate when we consider how deaths in the newborn crowd closely towards the day of birth. This effect is clearly shown in the table on page 87. Still-births and neo-natal deaths are considered together in the next table and are computed as rates per 1,000 total births.

Year	Still-births		Neo-natal Deaths		Neo-natal Deaths Plus Still-births	
	Number	Rate	Number	Rate	Number	Rate
1948	834	18.52	698	15.50	1,532	34.02
1949	796	17.77	748	16.70	1,544	34.47
1950	865	19.15	734	16.25	1,599	35.40
1951	804	17.69	724	15.93	1,528	33.62
1952	846	17.88	704	14.88	1,550	32.76

Recent years have shown a definite trend towards improvement in the combined rate.

CAUSES OF STILL-BIRTH.—still-born child is defined in New Zealand as one "which has issued from its mother after the expiration of the twenty-eighth week of pregnancy and which was not alive at the time of such issue." The registration of still-births has been effected in New Zealand since 1913, but no information regarding the causes of still-births was required for registration purposes until 1947. As from 1 July 1952 a certificate of the cause of death in cases of intermediate foetal death—i.e., deaths after the end of the twentieth but before the end of the twenty-eighth week of pregnancy—was also required to be furnished. The certificates of causes of still-birth and foetal death provide for both maternal and foetal causes to be entered.

Of the 846 still-births registered during 1952, in 61 cases (7 per cent) the cause was not known or not stated. Foetal causes only were specified in 448 cases (53 per cent); maternal causes only in 202 (24 per cent); while for 135 still-births (16 per cent of the total) there were both foetal and maternal causes present.

The following table shows the 846 still-births registered during 1952 classified (a) according to maternal causes and (b) according to foetal causes.

Causes of Still-birth	Number of Cases		
	Males	Females	Total
<i>(a) Maternal Causes</i>			
Chronic disease in mother	9	9	18
Acute disease in mother	11	2	13
Diseases and conditions of pregnancy and child-birth	71	83	154
Difficulties in labour	81	58	139
Other causes in mother	8	6	14
No maternal cause	262	246	508
Totals	442	404	846
<i>(b) Foetal Causes</i>			
Placental and cord conditions	176	124	300
Birth injury	19	10	29
Congenital malformation of foetus	39	73	112
Diseases of foetus and ill-defined causes	105	98	203
No foetal cause	103	99	202
Totals	442	404	846

PERINATAL MORTALITY AND PREMATUREITY.—Approximately three out of every four infants who die in the first year of life do so in the first month, and of those dying in the first month 41 per cent die in the first day of life and 86 per cent in the first week.

A principal factor in the loss of this new life is prematurity. This is seen in the following table, where causes of neo-natal deaths for 1952 are set out in accordance with the International List of 1948.

Causes of Death	Under One Day	One Day and Under One Week	One Week and Under Two Weeks	Two Weeks and Under Three Weeks	Three Weeks and Under One Month	Total Under One Month
Congenital malformations	29	54		20	12	115
Injury at birth	26	36		7	1	70
Injury at birth with prematurity	19	22		4		45
Post-natal asphyxia and atelectasis	49	30		4	2	85
Post-natal asphyxia and atelectasis, with prematurity	29	44	3	2		78
Pneumonia of newborn	6	5	1	1	4	16
Pneumonia of newborn, with prematurity	1	2		1	1	5
Disorders arising from maternal toxæmia		3				3
Disorders arising from maternal toxæmia, with prematurity	5	8		3		16
Hæmolytic disease of newborn (erythroblastosis)	6	16				22
Hæmolytic disease of newborn (erythroblastosis), with prematurity	2	5		3		10
Hæmorrhagic disease of newborn	1	5				6
Hæmorrhagic disease of newborn, with prematurity				1		1

Causes of Death	Rates Per Million of Mean Population					
	Under One Day	One Day and Under One Weeks	One Week and Under Two Weeks	Two Weeks and Under Three Weeks	Three Weeks and Under One Month	Total Under One Month
Nutritional maladjustment	1	1				2
Nutritional maladjustment, with prematurity	3					3
Ill-defined diseases peculiar to early infancy		1				1
Ill-defined diseases peculiar to early infancy, with prematurity	4	4				8
Immaturity with mention of any other subsidiary condition						
Immaturity, unqualified	111	73	3	2	1	190
Hernia, intestinal obstruction	1	1	1			3
External causes	1					1
Other causes	3	3	1		3	10
Totals	291	314	56	20	23	704

A total of 190, or 27 per cent, of all neo-natal deaths are directly attributed to prematurity (immaturity) and a further 166 deaths are given as associated with it. The principal conditions of early infancy with which prematurity was associated were (i) asphyxia in 78 cases (11.1 per cent of all neo-natal deaths), (ii) birth injury in 45 cases (6.4 per cent of all neo-natal deaths), and (iii) all other causes peculiar to early infancy, 43 cases (6.2 per cent of all neo-natal deaths).

In the case of still-births, out of 846 there were 378 cases, or 45 per cent, where gestation fell short of full term.

It is not possible to assess what the reduction in perinatal mortality would be if every pregnancy were to go to full term, but there is no doubt that it would be considerable.

As a first step in the campaign to reduce this grave loss of new life, details of the birth weight and gestation period of all infants born alive or dead after 1 July 1952 were required to be furnished to the Registrar of Births and Deaths. These will provide essential basic data for further studies on prematurity. It will give a measure of the problem in different localities according to the age and parity of the mother and the occupation of the father, and it will enable cohorts of infants to be followed through their first year of life so that their mortality and morbidity experience may be shown according to their degree of maturity at birth.

CAUSES OF DEATH.—Since 1908 the classification of causes of death in New Zealand has been on the basis of the international classification initiated by Dr. Jacques Berrillon. Almost all countries are member States of the World Health Assembly, and the International Statistical Classification of Diseases, Injuries, and Causes of Death has world-wide application.

The sixth (1948) revision of the classification was applied in New Zealand to the deaths for 1950. At the same time a departure was made from the previous arbitrary rules of selection, when more than one cause of death was entered on a certificate, to an assignment according to what is termed the underlying cause of death. This may be defined as (a) the disease or injury which initiated the train of morbid events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury. The responsibility for indicating the train of events is placed on the physician or surgeon signing the medical certificate of death.

The following table shows the numbers of deaths and death rates per million of mean population according to the Abbreviated List of 50 Causes (Sixth Revision, 1948). In order to provide a comparison with the years 1950 *et seq* the individual causes for each of the years 1948 and 1949 were, wherever possible, reassembled under the headings of the 1948 revision of the classification. It should be observed that no allowance was possible for the alteration in method of primary cause selection.

The statistics for tuberculosis, cancer, puerperal causes, and violent causes, which are of special interest and significance, are discussed later on in this subsection. Certain diseases (cholera, plague, smallpox, typhus, and malaria) are not listed in the table below, as there were no deaths occurring from these causes in the years shown.

Causes of Death	Rates Per Million of Mean Population									
	1948	1949	1950	1951	1952	1948	1949	1950	1951	1952
Tuberculosis of respiratory system	408	365	351	319	225	236	207	195	174	120
Tuberculosis, other forms	61	70	61	64	47	35	40	34	35	25
Syphilis and its sequelae	82	71	91	67	62	47	40	51	37	33
Typhoid fever	3	3	2			2	2	1		
Dysentery, all forms	3	3	5	3	2	2	2	3	2	1
Scarlet fever and streptococcal sore throat	3		1	1	1	2		1	1	1
Diphtheria	3	5	4	3	2	2	3	2	2	1
Whooping-cough	6	21	16	7	7	3	12	9	4	4
Meningococcal infections	9	7	9	14	19	5	4	5	8	10
Acute poliomyelitis	52	13	2	1	54	30	7	1	1	29
Measles	4	24	3	2	29	2	14	2	1	16
All other diseases classified as infective and parasitic	56	55	85	75	62	32	31	47	41	33
Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues	2,563	2,588	2,652	2,836	2,799	1,484	1,469	1,477	1,549	1,492
Benign and unspecified neoplasms	23	46	55	36	42	13	26	31	20	22
Diabetes mellitus	347	355	228	244	221	201	202	127	133	118
Anaemias	40	29	57	80	75	23	16	32	44	40
Vascular lesions affecting central nervous system	*	*	1,824	2,063	2,165	*	*	1,016	1,127	1,154
Non-meningococcal meningitis	20	15	18	15	23	12	9	10	8	12
Rheumatic fever	6	9	14	17	8	3	5	8	9	4
Chronic rheumatic heart-disease	251	258	253	204	220	145	146	130	111	117
Arteriosclerotic and degenerative heart-disease										
	4,775	4,960	4,657			2,659	2,709	2,483		
	5,430	5,744				3,144	3,261			
Other diseases of the heart			595	591	660			331	323	352
Hypertension with heart-disease			653	676	632			364	369	337
Hypertension without mention of heart	*	*	162	154	165	*	*	90	84	88
Influenza	51	45	77	78	130	30	26	43	43	69
Pneumonia	578	554	414	406	413	335	315	231	222	220
Bronchitis	131	128	150	250	348	76	73	84	137	183
Ulcer of stomach and duodenum	149	147	146	150	140	86	83	81	82	75
Appendicitis	37	40	34	28	27	21	23	19	15	14
Intestinal obstruction and hernia	123	115	127	118	110	71	65	71	64	58
Gastritis, duodenitis, enteritis, and colitis, except diarrhoea of newborn	65	85	86	115	75	38	48	48	63	40
Cirrhosis of liver	42	56	54	64	57	24	32	30	35	30
Nephritis and nephrosis	*	*	212	199	189	*	*	118	109	101
Hyperplasia of prostate	108	106	149	154	140	62	60	83	84	75
Complications of pregnancy, childbirth, and the puerperium	56	45	40	31	33	32	26	22	17	18
Congenital malformations	206	217	299	202	255	119	123	166	110	136
Birth injuries, post-natal asphyxia, and atelectasis			270	310	292			150	169	156
Infections of the newborn	585	640	25	30	25	339	363	14	16	13
Other diseases peculiar to early infancy, and immaturity unqualified			318	296	274			177	162	146
Senility without mention of psychosis, ill-defined and unknown causes	212	206	186	209	182	123	117	104	114	97

* Comparative figures not obtainable, with those given for later years (see letterpress).

† Less than one.

‡ These figures and rates are not comparable

Causes of Death	Numbers					Rates Per Million of Mean Population				
	1948	1949	1950	1951	1952	1948	1949	1950	1951	1952
All other diseases	‡3,100	‡3,014	1,334	1,426	1,536	‡1,795	‡1,711	743	779	819
Motor-vehicle accidents	181	195	212	269	252	105	111	118	147	134
All other accidents	618	547	501	549	550	358	311	279	300	293
Suicide and self-inflicted injury	181	171	165	182	189	105	97	92	99	101
Homicide and operations of war	19	20	20	14	19	11	11	11	8	10
Totals	15,812	16,012	16,715	17,512	17,413	9,157	9,092	9,308	9,564	9,282

* Comparative figures not obtainable, with those given for later years (see letterpress).

† Less than one.

‡ These figures and rates are not comparable

TUBERCULOSIS.—The death rate from tuberculosis of the respiratory system has shown a declining tendency for many years, but the reduction by nearly one-half in the space of the five years 1948–52 is a noteworthy achievement. The rate for 1952, 120 per million of population, is a record low rate for this country.

In addition to the 225 deaths from tuberculosis of the respiratory system during 1952, there were 47 deaths from other forms of tuberculosis, comprising—

Tuberculosis of meninges and nervous system	14
Tuberculosis of intestines, peritoneum, and mesentery	2
Tuberculosis of bones and joints	10
Tuberculosis of lymphatic system	1
Tuberculosis of genito-urinary system	13
Tuberculosis of adrenal glands	1
Disseminated tuberculosis	6

The following table shows the number of deaths from tuberculosis in 1952, classified according to sex and age groups. Of those dying from this cause in 1952, persons under the age of 45 years formed 49 per cent.

Age, in Years	Males	Females	Totals
Under 5	6	8	14
5 and under 10	2	2	4
10 and under 15	1	1	2
15 and under 20		1	1
20 and under 25	5	7	12
25 and under 30	9	8	17
30 and under 35	12	7	19
35 and under 40	5	7	12
40 and under 45	14	4	18
45 and under 50	15	6	21
50 and under 55	18	8	26
55 and under 60	20	7	27
60 and under 65	14	6	20
65 and under 70	25	1	26
70 and under 75	20	5	25
75 and under 80	10	4	14
80 and over	9	5	14
Totals	185	87	272

CANCER.—A special report on cancer is issued annually by the Medical Statistics Branch of the Department of Health. Besides a section dealing with cancer as a cause of death there are analyses of returns received from the various cancer clinics established in New Zealand under the auspices of the British Empire Cancer Campaign Society. These returns, together with those of patients treated in the public hospitals of New Zealand, provide for reasonably wide coverage. A system of registration enables a follow-up of each patient to be maintained which will eventually enable survival rates by site and method of treatment to be compiled. Special articles and statistical tables on the subject of cancer are contained in the 1917 and 1926 issues of the Year-Book, while the 1949 report of the Department of Health contains data covering the twenty-six years from 1924 to 1949.

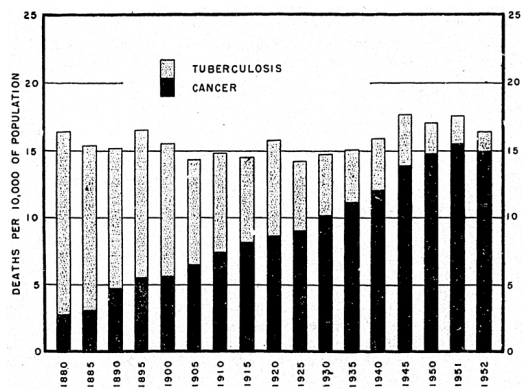
Attention is drawn to the transference, under the 1948 Revision of the International Classification, of Hodgkin's disease, leukaemia, etc., into the category of malignant diseases. This classification was introduced in 1950, and all cancer figures quoted for that and subsequent years include these conditions.

Cancer is annually responsible for more deaths in New Zealand than can be assigned to any cause other than diseases of the heart. While it is most prevalent in middle and old age, it exacts a heavy toll throughout the life-span. With the inclusion of Hodgkin's disease and leukaemia under the cancer heading the disease assumes a very high position as a cause of death among children and adolescents. It is interesting to compare the decline in the death rate from tuberculosis with the rise in the cancer death rate. These rates are set out in the following table and diagram. The fall in the tuberculosis rate may be said to reflect the achievements of the public-health service, whilst the rise in the cancer rate portrays in general the increasing age of the population.

This is illustrated by the following figures.

Period	Average Death Rates Per 10,000 of Population	
	Tuberculosis	Cancer
1880–89	12.35	3.42
1890–99	10.62	5.44
1900–09	9.10	6.79
1910–19	6.99	8.22
1920–29	5.69	9.30
1930–39	4.17	11.17
1940–49	3.46	13.56
1950–52	1.63	15.06

The relative movements in the death rates from cancer and tuberculosis are further illustrated in the following diagram, which shows the rates at five-yearly intervals since 1880.



In 1952 there were 2,799 deaths from cancer in New Zealand, a proportion of 14.92 per 10,000 of mean population. A summary for the last eleven years is given below.

Year	Number of Deaths From Cancer	Recorded Death Rate	Standardized Death Rate*
1942	2,029	13.13	8.31
1943	2,131	13.85	8.67
1944	2,182	14.02	8.58
1945	2,213	13.88	8.42
1946	2,268	13.68	8.48
1947	2,315	13.67	8.30
1948	2,453	14.21	8.65
1949	2,472	14.04	8.59
1950†	2,652	14.77	8.99
1951	2,836	15.49	9.49
1952	2,799	14.92	9.03

* Standard population used for standardized rates—England and Wales 1901.
† Includes Hodgkin's disease, leukaemia, etc., from 1950 onwards.

A summary showing the location of the disease in deaths from cancer during 1952 is given in the following table.

Site of Disease	Numbers			Rates Per Million of Mean Population		
	Males	Females	Totals	Males	Females	Totals
Buccal cavity and pharynx	40	17	57	43	18	30
Oesophagus	58	32	90	62	34	48
Stomach	235	155	390	250	166	208
Intestine, except rectum	135	200	335	143	214	179
Rectum	84	70	154	89	75	82
Larynx	23	3	26	24	3	14
Trachea, and of bronchus and lung not specified as secondary	234	40	274	248	43	146
Breast	3	275	278	3	294	148
Cervix uteri		76	76		81	41
Other and unspecified parts of uterus		62	62		66	33
Prostate	168		168	178		89
Skin	31	22	53	33	24	28
Bone and connective tissue	12	20	32	13	22	17
All other and unspecified sites	293	318	611	311	340	326
Leukaemia and aleukaemia	60	24	84	64	26	45
Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	57	52	109	61	56	58
Totals	1,433	1,366	2,799	1,522	1,462	1,492

The standardized figures for recent years suggest that cancer, while undoubtedly increasing in numerical incidence, is not doing so out of proportion to the population exposed to the cancer risk. Improvement in diagnosis has been responsible for some of the numerical increase in the recorded deaths from cancer, though this factor has now become more stabilized. A classification according to sex and age groups for 1952 is now given.

Age, in Years	Males	Females	Totals
Under 5	14	8	22
5 and under 10	6	6	12
10 and under 15	4	5	9
15 and under 20	3	3	6
20 and under 25	8	1	9
25 and under 30	12	5	17
30 and under 35	10	20	30
35 and under 40	27	32	59
40 and under 45	33	49	82
45 and under 50	44	78	122
50 and under 55	78	117	195
55 and under 60	122	136	258
60 and under 65	139	157	296
65 and under 70	243	177	420
70 and under 75	273	229	502

Age, in Years	Males	Females	Totals
75 and under 80	226	176	402
80 and over	191	167	358
Totals	1,433	1,366	2,799

Ninety-one per cent of the deaths from cancer during 1952 were at ages 45 years and upwards, and 60 per cent at ages 65 years and upwards. Approximately one death in every six of persons who die after the age of 50 years is due to cancer.

PURPERAL CAUSES.—In point of numbers of deaths, purperal accidents and diseases do not rank high among causes of death. Nevertheless, deaths from purperal causes are of special importance and significance. The rate per 1,000 live births in each of the last twenty years is shown in the following table.

Year	Proportion Per 1,000 Live Births
1933	4.44
1934	4.85
1935	4.21
1936	3.70
1937	3.61
1938	4.07
1939	3.64
1940	2.93
1941	3.36
1942	2.53
1943	2.21
1944	2.71
1945	2.24
1946	2.05
1947	1.07
1948	1.26
1949	1.02
1950	0.90
1951	0.69
1952	0.71

A survey of the death rate from purperal causes since 1872 shows that for a period in the early part of the twentieth century there was a tendency for the rate to decline. Then followed a definite upward movement, culminating in a rate of 6.48 per 1,000 live births in 1920, the third highest on record, this figure having been exceeded only in 1884 and 1885. Comparatively high rates persisted until 1931, since when the decline has been more or less steady. The efficacy of new drugs and methods of treatment is reflected in the extremely low rates recorded in recent years, the figure for 1951 of 0.69 being a new record. This low rate has been achieved mainly by a reduction in the number of deaths from septic abortion and purperal toxæmia, the latter being a cause which had hitherto been particularly resistant to preventive measures. Deaths from complications of childbirth have also been unusually few since 1949.

It is generally conceded that in years of high birth rates the maternal-mortality rate tends to rise, probably due to the abnormally high proportion of first births in the total of births, upon which the death rate for these causes is based. In common with most countries for which recent figures are available, the reverse has been the experience in New Zealand during recent years. Possibly a contributory factor in this reversal has been the rise in the proportion of births taking place in institutions, more particularly in special annexes attached to the larger hospitals, where every facility for the care of the patient is more readily available.

Details of deaths from deliveries and complications of pregnancy, childbirth, and the puerperium for the three years 1950 to 1952 are shown in the following summary. The disease headings conform to the 1948 Revision of the Classification introduced in 1950.

Causes of Death	Number of Deaths			Rate Per 10,000 Live Births		
	1950	1951	1952	1950	1951	1952
Toxæmia of pregnancy	13	7	9	2.93	1.57	1.94
Placenta prævia	1	3	1	0.67	0.67	0.22
Other hæmorrhage of pregnancy	1	1	1	0.22	0.22	0.22
Ectopic pregnancy	1	1	1	0.22	0.22	0.22
Other complications arising from pregnancy	1	1	1	0.22	0.22	0.22
Abortion without mention of sepsis or toxæmia	1	3	3	0.22	0.67	0.64
Abortion with sepsis	8	2	4	1.81	0.45	0.85
Delivery complicated by placenta prævia or antepartum hæmorrhage	1	1	3	0.22	0.22	0.64
Delivery complicated by retained placenta	2	1	1	0.45	0.22	0.22
Delivery complicated by other post-partum hæmorrhage	5	4	4	1.13	0.90	0.85
Delivery with trauma	1	3	3	0.22	0.67	0.64
Sepsis of childbirth and the puerperium	2	1	1	0.46	0.22	0.22
Purperal phlebitis and thrombosis	1	1	1	0.22	0.22	0.22
Purperal pulmonary embolism	1	3	1	0.22	0.67	0.22
Purperal eclampsia	3	1	1	0.63	0.22	0.22
Other and unspecified complications of the puerperium	1	1	1	0.22	0.22	0.22
Totals, including septic abortion	40	31	33	9.03	6.94	7.10
Totals, excluding septic abortion	32	29	29	7.22	6.49	6.25

A summary of maternal mortality from all purperal causes, in triennial periods since 1927 and for the year 1952, is now given.

Causes of Death	Number									
	1927-29	1930-32	1933-35	1936-38	1939-41	1942-44	1945-47	1948-50	1952	
Purperal sepsis	128	58	39	44	46	30	12	6	1	
Eclampsia and other toxæmias	101	97	93	94	80	58	62	42	9	
Septic abortion	47	85	91	68	58	61	33	20	4	
Accidents, hæmorrhage, and other mortality	124	124	104	91	135	94	110	73	19	
Total maternal mortality	400	364	327	297	319	243	217	141	33	
Maternal mortality, excluding septic abortion	353	279	236	229	261	182	184	121	29	

DEATHS FROM EXTERNAL CAUSES.—Deaths from external causes, apart from suicide, claim approximately 4 per cent of the total deaths. The following table shows deaths from external causes for the three years 1950, 1951, and 1952 according to the Intermediate List of the 1948 Revision of the International Classification. It is necessary to refer to the detailed list of circumstances of accident or means of injury if a comparison with years prior to 1949 is required, as the inclusions under the headings below differ considerably from past practice—e.g., drowning from boats and ships or from horseback whilst crossing rivers are included below as transport fatalities, as also are falls on board ship and from horseback.

Causes of Death	Number of Deaths			Rate Per Million of Mean Population		
	1950	1951	1952	1950	1951	1952
Motor-vehicle accidents	212	269	252	118	147	134
Other transport accidents	85	115	90	47	63	48
Accidental poisoning	17	29	30	9	16	16
Accidental falls	149	139	168	83	76	90

Causes of Death	Number of Deaths/Rate Per Million of Mean Population					
	1950	1951	1952	1950	1951	1952
Accident caused by machinery	31	19	35	17	10	19
Accident caused by fire and explosion of combustible material	11	19	21	6	10	10
Accident caused by hot substance, corrosive liquid, steam, and radiation	14	17	11	8	9	6
Accident caused by firearm	19	22	17	11	12	9
Accidental drowning and submersion	64	90	81	36	49	43
All other accidental causes	111	99	97	62	54	52
Homicide and injury purposely inflicted by other persons (not in war)	17	14	18	9	8	10
Injury resulting from operations of war	3			2		
Totals	733	832	820	408	454	437

The number of deaths recorded from all accidental causes in 1952 was 802, corresponding to a rate of 4.28 per 10,000 of population. By comparison with 1936, there was an increase of 104 in the number of deaths, but the death rate has decreased by 0.40 per 10,000 of population.

Transport Accidents.—In classifying deaths attributable to transport accidents under the various subheadings shown in the following table the rule of assignment is that in fatalities due to collisions of railway trains and electric tram cars with motor vehicles the death is assigned to the railway train or electric tram car as being the heavier and more powerful vehicle. In the case of collisions between motor vehicles and horse-drawn vehicles, the death is assigned to the motor vehicle.

The number and rate of deaths resulting from railway, tramway, motor vehicle, and aircraft accidents during each of the last eleven years are as follows.

Year	Deaths Due to Accident				Rate Per 10,000 of Mean Population			
	Railway	Tramway	Motor Vehicle	Aircraft	Railway	Tramway	Motor Vehicle	Aircraft
1942	51	16	125	58	0.33	0.10	0.81	0.38
1943	74	9	113	97	0.48	0.06	0.73	0.63
1944	36	11	129	41	0.23	0.07	0.83	0.26
1945	36	11	104	27	0.23	0.07	0.65	0.17
1946	40	22	157	3	0.24	0.13	0.95	0.02
1947	39	9	187	8	0.23	0.05	1.10	0.05
1948	34	7	175	24	0.20	0.04	1.01	0.14
1949	28	7	190	25	0.16	0.04	1.08	0.14
1950	30	7	198	6	0.17	0.04	1.10	0.03
1951	39	9	254	9	0.21	0.05	1.39	0.05
1952	32	2	240	14	0.17	0.01	1.28	0.07

Deaths arising out of aircraft accidents fell off steeply after 1945. This was to be expected, since the figures include Air Force accidents in New Zealand as well as civilian casualties. In 1948 the crashing on Mount Ruapehu of a National Airways Corporation plane with the loss of 13 lives was the principal cause of the high figure for civil air transport accidents in that year. New Zealand's worst air disaster occurred in 1949, when fifteen lives were lost in a crash at Waikanae. The figure of 25 deaths is the highest total recorded in a non-war year. The sharp increase in 1943 in deaths due to railway accidents is accounted for by one serious accident near Hyde in Central Otago, which resulted in twenty-one deaths. In 1948 a derailment near Blenheim resulting in the loss of six lives was a substantial contribution to the total in that year.

Deaths from motor-vehicle accidents recorded an appreciable increase up to 1930, but this trend was reversed during the depression years, largely owing to a great reduction in the number of motor vehicles on the roads during that period. With the advent of more prosperous times, the toll of the motor vehicle again mounted, although, fortunately, not in proportion to the tremendous increase in motor vehicular traffic on the highways. An appreciable drop, however, was experienced during the war years on account of there being less traffic on the roads owing to restrictions in the use of motor-spirits and rubber tires. Since the war the number of fatalities from motor-vehicle accidents progressively increased up to 1951. The 1952 total of 240 deaths was a decrease of 14 on the figure for 1951.

The figures given in the above table for deaths from motor-vehicle accidents (which do not include deaths of Maoris) are exclusive of accidents where persons have been killed in collisions between motor vehicles and trains or trams, these being assigned to the heavier vehicle. For 1952 there were 12 deaths from such accidents, bringing the total number of deaths in cases where a motor vehicle was involved up to 252. The corresponding figure for 1951 was 269.

Non-transport Accidents.—Over the three-year period 1950 to 1952, 44 per cent of deaths from accidental causes involved transport vehicles or devices, with the remaining 56 per cent spread over a wide range of circumstances.

The 1948 Revision of the International List makes provision for these non-transport accidents (excluding therapeutic misadventure in treatment, complications following vaccination or inoculation, and late effects of injury and poisoning) to be grouped according to the place where the accident or poisoning occurred. The following table shows the deaths, both numbers and rates, for each of the three years 1950, 1951, and 1952 according to this classification.

Place of Occurrence	Number						Rate Per Million of Mean Population		
	1950	1951	1952	1950	1951	1952			
Home (including home premises and vicinity and any non-institutional place of residence)	203	222	195	113	121	121	15	15	25
Farm (including buildings and land under cultivation, but excluding farm and home premises)	44	29	47	25	15	15	4	4	5
Mine and quarry	4	7	10	2	2	4	0	0	10
Industrial place and premises	27	19	18	15	10	10	4	4	4
Place for recreation and sport	7	7	8	4	4	4	0	0	6
Street and highway	12	10	12	7	7	5	0	0	3
Public building (building used by the general public or a particular group of the public)	6	13	5	3	7	3	0	0	17
Resident institution (homes, hospitals, etc.)	13	23	32	7	13	13	0	0	50
Other specified places	72	83	94	40	45	50	0	0	17
Place not specified	14	16	32	8	9	17	0	0	241
Totals	402	429	453	224	234	241			

One in every two fatal non-traffic accidents occurs in or about the home.

The chief killer in the home is falls, which exacts a heavy toll of the aged and infirm. Second comes asphyxia from regurgitation of foodstuffs and inhalation of other objects, or mechanically from pillows and bedclothes: this is the principal hazard of the first six months of life, though a proportion of these deaths is probably due to some undisclosed underlying respiratory infection. Almost all the home drowning fatalities are amongst toddlers between one and two years of age who fall into rivers, creeks, and ponds in the immediate home vicinity.

There were 120 deaths from non-transport accidents on farms in the period covered, while fatal non-transport accidents in industrial plants, factories, and workshops totalled 64.

OCCUPATIONAL ACCIDENTS.—The majority of occupational accidents are included in accidents occurring in industrial places or premises, on railways, farms, and mines and quarries, but a certain number occur in such places as places of recreation and sport, streets and highways, and public buildings. For example, 8 occupational accidents causing the deaths of 7 jockeys and 1 trotting driver are included under "place for recreation and sport."

The following table shows details of deaths from accidental causes arising out of and in the course of the deceased's employment. So far as transport accidents are concerned, where these occurred to farmers engaged in transporting produce and to persons whose occupation was driving, these were included as occupational. Details of occupational accidents are not available for 1952.

Description of Accident	1949	1950	1951	Totals, 1949-51
	Males	Females	Totals	
Railway accident involving railway employee	10	3	11	24
Railway accident involving other person	2	1	1	4
Motor-vehicle traffic accidents	5	11	11	27
Motor-vehicle non-traffic accidents	1	1		2
Other road-vehicle accidents	15	6	3	24
Submersion of occupant of small boat	1	1	3	5
Other water transport injury by submersion	5	4	1	10
Falls on ships	1	3	1	5
Crushing while loading or unloading ship	1	2	2	5
Aircraft accidents	7	3	5	15

Description of Accident	1949	1950	1951	Totals, 1949-51
Poisoning by liquid substance		1		1
Poisoning by gases and vapours	2	1		3
Falls	9	5	6	20
Blow from falling object	12	13	13	38
Accident caused by mine vehicle			1	1
Machinery accidents	17	30	18	65
Accident caused by cutting or piercing instrument		1		1
Accident caused by electric current	11	7	8	26
Accident caused by fire and explosion of combustible material	2	3		5
Accident caused by hot substance, corrosive liquid, and steam	1	1	1	3
Accident caused by firearm		4		4
Mechanical suffocation	1	3		4
Sting of venomous insect	1			1
Accident caused by animals	3	3	1	7
Drowning and submersion		1	3	4
Excessive cold		1		1
Crushing		1	1	2
Totals	107	101	98	306

Farming and agricultural employment, which contributed an average of 31 occupational deaths in each year, were responsible for the highest total in any one occupational group. The annual average number of deaths in other occupational groups were (i) railway employees 8, (ii) transport drivers 5, (iii) fishermen and seamen 5, (iv) miners and quarrymen 5.

Further data regarding accidents will be found elsewhere in this volume (see Index). A later section is devoted wholly to statistics of industrial accidents.

SUICIDES.—Suicidal deaths in 1952 numbered 189—males 141, females 48—the death rate per 10,000 of mean population being 101.

Year	Number of Suicidal Deaths			Rate Per 10,000 of Mean Population		
	Males	Females	Totals	Males	Females	Totals
1948	131	50	181	1.52	0.58	1.05
1949	114	57	171	1.29	0.65	0.97
1950	121	44	165	1.34	0.49	0.92
1951	136	46	182	1.48	0.50	0.99
1952	141	48	189	1.50	0.51	1.01

The following table presents, for annual averages of various quinquennia, the suicide rate per 10,000 of mean population.

Annual Average During	Males	Females	Both Sexes
1895-99	1.48	0.31	0.93
1900-04	1.66	0.31	1.02
1905-09	1.62	0.34	1.02
1910-14	1.83	0.41	1.16
1915-19	1.79	0.40	1.10
1920-24	1.92	0.46	1.20
1925-29	2.17	0.56	1.38
1930-34	2.29	0.55	1.44
1935-39	1.63	0.57	1.10
1940-44	1.44	0.56	0.99
1945-49	1.38	0.57	0.97
1950-52 (3 years)	1.44	0.50	0.97

4 D—MAORIS

Unless specially stated to the contrary, in each of the preceding subsections Maoris have been excluded from the statistical tables presented. The standard of registration of Maoris is still below that of the European section of the population of New Zealand. This is due partly to difficulties of language, educational status, etc., and partly to problems of access. This latter difficulty arises from the fact that the greater portion of the Maori population is resident in country districts not so well served with modern facilities as regards transport, medical, and nursing services, etc. Consequently registration of vital facts regarding the Maori race as a whole is not quite at the same level of accuracy as obtains for the European population, but very considerable improvement has been effected in recent years.

MAORI BIRTHS.—In the successive Registration Acts special provision was made for exemption from the necessity of registration in the case of births and deaths of Maoris, though registration could be effected if desired. Section 20 of the Births and Deaths Registration Amendment Act 1912 (now section 52 of the Births and Deaths Registration Act 1951) empowered the making of regulations to provide for the registration of births and deaths of Maoris. Regulations were made accordingly, and Maori births and deaths became registrable as from 1 March 1913. The number of Registrars of Maori Births and Deaths in New Zealand is over 250, most of these being in the North Island, where the great majority of the Maori population is located. Every Maori settlement of any size is within reach of one of these Registrars. Maori registrations are entered in a separate register, which does not, however, make provision for as many particulars as is the case with registrations of Europeans.

The number of births of Maoris registered during 1952 was 5,459 (2,856 males, 2,603 females). The Maori birth rate in 1952 was almost twice the European birth rate (24.77 per 1,000). Registrations of Maori births in each of the last eleven years were as follows.

Year	Number of Maori Births			Rate Per 1,000 of Mean Population
	Males	Females	Totals	
1942	2,222	2,108	4,330	45.84
1943	2,267	2,173	4,440	45.78
1944	2,328	2,180	4,508	45.32
1945	2,389	2,255	4,644	46.10
1946	3,007	2,769	5,776	56.81
1947	2,541	2,447	4,988	47.46
1948	2,589	2,367	4,956	45.97
1949	2,510	2,407	4,917	44.48
1950	2,606	2,499	5,105	45.07
1951	2,746	2,492	5,238	44.97
1952	2,856	2,603	5,459	45.41

Prior to 1946 there was reason to believe that the number of Maori births was somewhat understated, and this view was confirmed by the registration figures for 1946, the year in which the provision of family benefits under the Social Security scheme was extended to cover all children under sixteen years of age irrespective of the income of the parents. Of the 5,776 Maori births registered during 1946, no fewer than 1,447, or 25 per cent, had actually occurred before 1945—i.e., over a year before registration.

For the purposes of the Maori Births and Deaths Registration Regulations 1935 a Maori is defined as "a person belonging to the aboriginal race of New Zealand, and includes a half-caste and a person intermediate in blood between half-castes and persons of pure descent from that race".

Only registrations relating to persons possessing half or more Maori blood are made in the register of Maori births or Maori deaths. All registrations in respect of persons possessing less than half Maori blood must be made in the European register.

Causes of Death	Under 1 Day	1 Day and Under 2 Days	2 Days and Under 1 Week	1 Week and Under 2 Weeks	2 Weeks and Under 3 Weeks	3 Weeks and Under 1 Month	1 Month and Under 2 Months	2 Months and Under 3 Months	3 Months and Under 6 Months	6 Months and Under 9 Months	9 Months and Under 12 Months	Totals
	Dysentery, all forms								1		1	
Whooping-cough									3	4		9
All other diseases classified as infective and parasitic				1	1			1	2	3		9
Non-meningococcal meningitis					1			2	8	3		14
Influenza					2			5	3	1		11
Pneumonia, except of newborn							9	11	31	36		29 116
Bronchitis				1				1	8	7		5 22
Intestinal obstruction and hernia						1	1		1			3
Gastritis, duodenitis, enteritis, and colitis, except diarrhoea of newborn							3	2	22	24		13 64
Congenital malformations	5		2	2	4	1	1	2	5	3		3 28
Birth injuries	7	13	4									1 26
Post-natal asphyxia and atelectasis	14	2	4	1								21
Infections of the newborn	1		3	2		2	6					14
Immaturity unqualified	16	10	13	1					1			41
Other diseases peculiar to early infancy	9	4	8	2			1		2	5	2	3 36
Accidents		1	1				1	1	1	5		14
Other diseases				1				1	4	12		5 23
Totals	53	30	35	12	5	6	21	28	101	106		64 461

Of the total of 14 deaths in the above table due to infections of the newborn, 2 were defined as diarrhoea and 12 as pneumonia. Immaturity unqualified accounted for 41 infant deaths, but in a further 26 deaths due to diseases peculiar to early infancy, prematurity was an associated condition.

The great achievement in reducing the infant-mortality rate for the European population has been accomplished during the period after the first month of life up to the end of the first year. Conversely, the causes of the extremely high Maori mortality rates are to be found in the same period of life. This is indicated in the next table, which contrasts the mortality rates per 1,000 live births for European and Maori infants respectively for the last twenty years.

Year	Europeans			Maoris		
	Under One Month	One and Under Twelve Months	Total Under One Year	Under One Month	One and Under Twelve Months	Total Under One Year
1933	22.81	8.83	31.64	23.07	69.54	92.61
1934	22.86	9.25	32.11	17.11	76.48	93.59
1935	22.03	10.23	32.26	24.30	84.90	109.20
1936	22.31	8.65	30.96	22.32	87.60	109.92
1937	22.21	9.00	31.21	21.66	70.51	92.17
1938	24.15	11.48	35.63	30.32	122.94	153.26
1939	21.85	9.29	31.14	32.07	82.85	114.92
1940	22.03	8.18	30.21	23.92	63.30	87.22
1941	20.00	9.77	29.77	26.85	98.21	125.06
1942	18.73	9.98	28.71	19.40	78.52	97.92
1943	21.27	10.10	31.37	18.92	70.94	89.86
1944	20.60	9.52	30.12	19.30	82.96	102.26
1945	19.59	8.40	27.99	26.05	62.88	88.93
1946	19.08	7.02	26.10	18.35	56.27	74.62
1947	18.08	6.96	25.04	25.46	47.72	73.18
1948	15.80	6.15	21.95	28.85	47.82	76.67
1949	17.01	6.77	23.78	22.78	63.04	85.82
1950	16.57	6.18	22.75	28.41	41.33	69.74
1951	16.22	6.56	22.78	25.01	43.15	68.16
1952	15.15	6.67	21.82	25.82	58.63	84.45

The principal causes of death of Maori infants responsible for the high mortality rates after the first month of life are diarrhoea and enteritis, broncho-pneumonia, pneumonia, and other diseases of the respiratory system.

4 E—TOTAL POPULATION, INCLUDING MAORIS

It is desirable that a complete coverage of the vital statistics of a country as a whole should be available, and the statistical data presented in this subsection cover the entire population of New Zealand.

For many years the standard of registration of vital events for Maoris was subject to elements of inaccuracy and incompleteness due to several factors. However, with the introduction of the medical and related benefits under the social security legislation, which covers Maori and European alike, certain information was essential for the claiming of benefits, and a gradual improvement in recent years has been in evidence. Since 1 April 1952 all Maori marriages have been celebrated in the same manner and registration effected in the same way as European marriages. As regards births and deaths, however, separate registers for Maoris and Europeans are used, and in the case of Maoris the information recorded is not as detailed as that for Europeans. It is probable that the standard of registration of Maori vital statistics is now very little inferior to that of Europeans.

TOTAL BIRTHS.—As mentioned previously, registration of Maori births are somewhat less accurate (although improvement has been manifest in recent years) than those of the European population. In the table following, which shows the numbers and rates of European, Maori, and total births for each of the last eleven years, allowance should be made for the element of inaccuracy and incompleteness affecting a proportion of the figures, particularly for the earlier years covered.

For instance, owing to the extensive time lag in the receipt by the Registrar-General of a considerable number of registrations, the statistics of Maori births relate to the number of registrations received during the year, whereas the European figures cover actual registrations effected during the year.

Year	Numbers			Rates Per 1,000 of Mean Population		
	European	Maori	Total	European	Maori	Total
1942	33,574	4,330	37,904	21.73	45.84	23.12
1943	30,311	4,440	34,751	19.70	45.78	21.25
1941	33,599	4,508	38,107	21.59	45.32	23.01
1945	37,007	4,644	41,651	23.22	46.10	24.58
1946	41,871	5,776	47,647	25.26	56.81	27.08
1947	44,816	4,988	49,804	26.47	47.46	27.70
1948	44,193	4,956	49,149	25.59	45.97	26.79
1949	43,988	4,917	48,905	24.98	44.48	26.13
1950	44,309	5,105	49,414	24.67	45.07	25.88
1951	44,651	5,238	49,889	24.39	44.97	25.62
1952	46,469	5,459	51,928	24.77	45.41	26.01

The abnormal increase in the number of Maori births shown for the year 1946 is mainly accounted for by the late registration of births which occurred prior to 1946 (see p. 98).

The inclusion of Maoris raises the level of the birth rate all through the period covered, but in no case does it reverse the trend of the rate on the normal published basis—i.e., the birth rate of New Zealand, exclusive of Maoris. In an international comparison for the quinquennium 1948-52 the inclusion of Maoris raises New Zealand's position from fourteenth to tenth in a total of twenty-eight countries covered.

TOTAL NATURAL INCREASE.—The birth and death rates of the European population are not subject to violent fluctuation, and consequently the natural-increase rate—i.e., excess of births over deaths—for this section of the population shows a decline to 1943 in the period covered by the next table, followed by a steady rise to 1947, and a regular decline each year until 1952, when a record increase was established. The Maori population, on the other hand, evidences sudden changes in both birth and death rates, with a resultant considerable fluctuation in the natural-increase rate. The effect of combining the two sections of the populations is to smooth out the variations in the Maori rate of natural increase, but the general trend is the same as the European rate. The following table shows the numbers gained by natural increase, together with the rate per 1,000 of mean population for the last eleven years.

Year	Numbers			Rates Per 1,000 of Mean Population		
	European	Maori	Total	European	Maori	Total
1942	17,189	2,598	19,787	11.13	27.50	12.07
1943	14,864	2,765	17,629	9.66	28.51	10.78
1944	18,236	2,822	21,058	11.72	28.37	12.71
1945	20,956	3,009	23,965	13.15	29.87	14.14
1946	25,778	4,149	29,927	15.55	40.81	17.01
1947	28,912	3,450	32,362	17.08	32.83	18.00
1948	28,381	3,483	31,864	16.43	32.31	17.37
1949	27,976	3,351	31,327	15.89	30.31	16.74
1950	27,594	3,736	31,330	15.36	32.98	16.41
1951	27,139	3,914	31,053	14.83	33.60	15.84
1952	29,056	3,976	33,032	15.49	33.07	16.54

In the ten years 1943-52 New Zealand has gained by natural increase of the population a total of 283,547, comprising 248,892 Europeans and 34,655 Maoris.

TOTAL MARRIAGES.—The following table shows the numbers of European, Maori, and total marriages celebrated during each of the last eleven years.

Year	Numbers			Rates Per 1,000 of Mean Population		
	European	Maori	Total	European	Maori	Total
1942	12,219	556	12,775	7.91	5.89	7.79
1943	11,579	442	12,021	7.53	4.56	7.35
1944	13,125	521	13,646	8.43	5.24	8.24
1945	16,160	533	16,693	10.14	5.29	9.85
1946	20,535	561	21,096	12.39	5.52	11.99
1947	18,525	522	19,047	10.94	4.97	10.59
1948	17,192	558	17,750	9.96	5.18	9.67
1949	16,785	569	17,354	9.53	5.15	9.27
1950	16,504	595	17,099	9.19	5.25	8.96
1951	16,359	556	16,915	8.93	4.77	8.78
1952	*	*17,061	*	*	*	8.55

* Not available, see following paragraph.

The fluctuations in the Maori marriage rate, and hence, to a lesser extent, in the total marriage rate, cannot be taken at their face value, as elements of Maori psychology played no small part on occasions in influencing the number of Maori marriages registered, as distinct from the number actually celebrated. Apart from these factors, the differences observed in the movements of the respective rates to 1951 are, of course, considerably affected by variations in the application of social and other legislation to the Maori race and the European population respectively. As a result of legislative changes it is not possible to distinguish marriages of Maoris from those of Europeans after 1 April 1952.

TOTAL DEATHS.—The effect of including Maoris is to increase slightly the total death rate for New Zealand, as is seen in the following table.

Year	Numbers			Rates Per 1,000 of Mean Population		
	European	Maori	Total	European	Maori	Total
1942	16,385	1,732	18,117	10.60	18.34	11.05
1943	15,447	1,675	17,122	10.04	17.27	10.47
1944	15,363	1,686	17,049	9.87	16.95	10.30
1945	16,051	1,635	17,686	10.07	16.23	10.44
1946	16,093	1,627	17,720	9.71	16.00	10.07
1947	15,904	1,538	17,442	9.39	14.63	9.70
1948	15,812	1,473	17,285	9.16	13.66	9.42
1949	16,012	1,566	17,578	9.09	14.17	9.39
1950	16,715	1,369	18,084	9.31	12.09	9.47
1951	17,512	1,324	18,836	9.56	11.37	9.67
1952	17,413	1,483	18,896	9.28	12.34	9.47

Although the Maori death rate is consistently and appreciably higher than the European rate, the inclusion of Maoris does not raise the general death rate much above the European rate. Countries with lower death rates (in 1952) than New Zealand included Netherlands, 7.3; Norway, 8.3; Canada, 8.6; Union of South Africa (European population only), 8.6; and Denmark, 9.0.

Total Deaths by Causes.—Numbers and rates for principal causes of death over the five years 1945-49 are given in the following table. This table follows the Abridged International List of Causes of Death (Fifth Revision, 1958) and includes Maoris. Similarly based figures covering the same five years will be found for the Maori population separately on page 88 of the 1955 Year-Book and for the European population by reference to page 87 of the 1950 edition of the Year-Book.

Causes of Death	Number of Deaths					Rates Per Million of Mean Population				
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949
Typhoid and paratyphoid fever	10	14	21	7	7	6	8	12	4	4
Scarlet fever	14	1		4		8	1		2	
Whooping-cough	16	1	49	34	52	9	1	27	18	28
Diphtheria	63	59	28	6	10	37	34	15	3	5
Tuberculosis of the respiratory system	789	753	717	616	569	466	428	399	336	304
Other forms of tuberculosis	191	202	156	130	135	113	115	87	71	72
Syphilis	100	135	125	95	83	59	77	69	52	44
Influenza	74	148	48	73	57	44	84	27	40	31
Measles	14	43	2	6	53	8	24	1	3	28
Other infective and parasitic diseases	132	131	131	162	123	78	74	73	88	66
Cancer and other malignant tumours	2,268	2,326	2,388	2,522	2,547	1,338	1,322	1,328	1,175	1,161
Non-malignant tumours	55	72	69	25	51	32	41	38	14	27
Chronic rheumatism and gout	30	30	23	29	27	18	17	13	16	14
Diabetes mellitus	324	347	332	355	363	191	197	184	193	194
Alcoholism	7	4	3	6	6	4	2	2	3	3
Axylotomies, other general diseases, diseases of the blood, and chronic poisoning	270	260	250	236	252	159	148	139	129	135
Meningitis, and diseases of the spinal cord	80	81	77	96	84	47	46	43	52	45
Intra-cranial lesions of vascular origin	1,671	1,613	1,695	1,698	1,655	986	917	942	925	884
Other diseases of the nervous system and organs of special sense	212	180	156	173	169	124	102	87	94	90
Diseases of the heart	5,924	6,015	6,008	5,939	6,283	3,496	3,419	3,340	3,237	3,357

Causes of Death	Number of Deaths					Rates Per Million of Mean Population				
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949
Other diseases of the circulatory system	300	263	262	314	280	177	149	146	171	150
Bronchitis	208	177	201	162	151	123	100	112	88	81
Pneumonia and bronch-pneumonia	720	840	750	812	828	425	477	417	443	442
Other diseases of the respiratory system	234	204	228	207	197	138	116	127	113	105
Diarrhoea and enteritis	239	159	127	110	142	141	90	71	60	76
Appendicitis	64	58	57	46	45	38	33	32	25	24
Diseases of the live and biliary passages	130	121	98	128	140	77	69	55	70	75
Other diseases of the digestive system	376	306	334	339	343	222	174	186	185	183
Nephritis	442	475	414	385	399	261	270	230	210	213
Other diseases of the genito-urinary system	258	215	245	227	194	152	122	136	124	104
Puerperal infection	29	35	18	18	13	17	20	10	10	7
Other diseases of the puerperal state	63	74	41	47	49	37	42	23	26	26
Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	42	37	31	22	32	25	21	17	12	17
Congenital debility, malformations, premature birth, and other diseases of early infancy	945	999	1,049	905	950	558	568	583	493	508
Senility	513	369	343	241	229	303	210	191	131	122
Suicide	182	173	140	187	176	107	98	78	102	94
Homicide	27	18	13	20	28	16	10	7	11	15
Automobile accidents	132	187	231	195	216	78	107	128	106	115
Other accidental deaths	520	586	566	693	620	307	333	315	378	331
Cause of death not specified or ill-defined	18	9	16	15	20	11	5	9	8	11
Totals	17,686	17,720	17,442	17,285	17,578	10,436	10,071	9,699	9,421	9,391

Although the incidence of different diseases as causes of death varies considerably as between the Maori and European sections of New Zealand's population, the only important disease to show a marked influence on the general death rate by the inclusion of Maoris is tuberculosis. The average death rate for the total population from tuberculosis (all forms) for the five years 1948-52 was 325 per million of mean population, as against 220 for the European death rate. New Zealand has for many years had a comparatively low tuberculosis death rate for the European section of its population, but when Maoris are included the latest triennial international figures available (1947-49) show New Zealand to be sixth out of a total of thirty-one countries. With Maoris excluded, New Zealand's position would be second for the same period.

Total deaths for the years 1950 to 1952 according to the Abbreviated List of the Sixth (1948) Revision of the International Classification of Causes of Death are contained in the following table. Comparative tables for the European and Maori population separately may be found by reference to Section 4C and Section 4D respectively.

Causes of Death	Number of Deaths			Rate Per Million of Mean Population		
	1950	1951	1952	1950	1951	1952
Tuberculosis of respiratory system	545	448	336	285	230	168
Tuberculosis, other forms	121	103	85	63	53	43
Syphilis and its sequelae	100	71	66	52	36	33
Typhoid fever	7	2		4	1	
Dysentery, all forms	12	5	5	6	3	3
Scarlet fever and streptococcal sore throat	2	1	2	1	1	1
Diphtheria	4	3	2	2	2	1
Whooping cough	23	11	18	12	6	9
Meningococcal infections	9	22	21	5	11	10
Acute poliomyelitis	2	2	57	1	1	29
Measles	3	2	44	2	1	22
All other diseases classified as infective and parasitic	95	86	76	50	44	38
Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues	2,717	2,913	2,905	1,423	1,496	1,455
Benign and unspecified neoplasms	59	38	43	31	19	21
Diabetes mellitus	232	249	226	121	128	113
Anaemias	58	81	76	30	42	38
Vascular lesions affecting central nervous system	1,855	2,114	2,209	972	1,085	1,107
Non-meningococcal meningitis	36	27	40	19	14	20
Rheumatic fever	23	23	22	12	12	11
Chronic rheumatic heart-disease	271	244	256	142	125	128
Arteriosclerotic and degenerative heart-disease	4,916	5,151	4,798	2,575	2,645	2,404
Other diseases of the heart	641	674	704	336	346	353
Hypertension with heart-disease	662	695	653	347	357	327
Hypertension without mention of heart	164	155	170	86	80	85
Influenza	97	92	152	51	47	76
Pneumonia	579	555	600	303	285	301
Bronchitis	177	280	413	93	144	207
Ulcer of stomach and duodenum	148	151	150	77	77	75
Appendicitis	39	32	30	20	16	15
Intestinal obstruction and hernia	137	131	119	72	67	60
Gastritis, duodenitis, enteritis, and colitis, except diarrhoea of the newborn	136	165	151	71	85	76
Cirrhosis of liver	59	65	38	31	33	19
Nephritis and nephrosis	231	208	212	121	107	106
Hyperplasia of prostate	150	156	145	79	80	73
Complications of pregnancy, childbirth, and the puerperium	52	36	47	27	18	23
Congenital malformations	320	225	295	168	116	148
Birth injuries, post-natal asphyxia, and atelectasis	325	358	339	170	184	170
Infections of the newborn	33	42	39	17	22	19
Other diseases peculiar to early infancy, and immaturity unqualified	393	361	356	206	185	178
Senility without mention of psychosis, ill-defined, and unknown causes	213	241	203	112	124	102
All other diseases	1,430	1,499	1,640	749	770	822
Motor-vehicle accidents	238	298	296	125	153	148
All other accidents	574	610	638	301	313	320
Suicide and self-inflicted injury	172	188	198	90	96	99
Homicide and operations of war	24	23	21	13	12	10
Totals	18,084	18,836	18,896	9,473	9,672	9,466

TOTAL INFANT MORTALITY.—The establishing of the vital statistics of New Zealand on a total basis by the inclusion of Maoris has the greatest influence upon the infant-mortality rate. The infant-mortality rate of the European population of New Zealand was the lowest in the world for a long period, and recently has declined to a particularly low level. The Maori rate, on the other hand, always a high one, has not shown any noticeable improvement in recent years. It is also subject to violent fluctuations owing to the ravages of certain epidemic diseases, which have relatively very little effect on the European rate. The European, Maori, and total infant-mortality figures for the last twenty years are given in the next table.

Year	Numbers			Rates Per 1,000 Live Births		
	European	Maori	Total	European	Maori	Total
1933	770	273	1,043	31.64	92.61	38.23
1934	781	279	1,060	32.11	93.59	38.82
1935	773	355	1,128	32.26	109.20	41.45
1936	769	399	1,168	30.96	109.92	41.03
1937	812	366	1,178	31.21	92.17	39.29
1938	971	566	1,537	35.63	153.26	49.67
1939	898	473	1,371	31.14	114.92	41.61
1940	990	372	1,362	30.21	87.22	36.78
1941	1,045	517	1,562	29.77	125.06	39.81
1942	964	424	1,388	28.71	97.92	36.62
1943	951	399	1,350	31.37	89.86	38.85
1944	1,012	461	1,473	30.12	102.26	38.65
1945	1,036	413	1,449	27.99	88.93	34.79
1946	1,093	431	1,524	26.10	74.62	31.99
1947	1,122	365	1,487	25.04	73.18	29.86
1948	970	380	1,350	21.95	76.67	27.47
1949	1,046	422	1,468	23.78	85.82	30.02
1950	1,008	356	1,364	22.75	69.74	27.60
1951	1,017	357	1,374	22.78	68.16	27.54
1952	1,014	461	1,475	21.82	84.45	28.40

The inclusion of Maoris not only places the infant-mortality rate for New Zealand on a considerably higher level, but also replaces the general downward movement by a much more fluctuating trend.

It also has a considerable effect on the position occupied by New Zealand among the countries of the world. In the quinquennium 1947-51 New Zealand's infant-mortality rate (exclusive of Maoris), with an average of 23, was the second lowest of thirty countries for which reliable figures were available, whereas the inclusion of the Maori population relegated it to third place equal with the Netherlands, with Sweden clearly in the lead, and Australia in second place.

4 F—MORBIDITY

COMPARISONS of healthiness of a community over a period of years which are based on death rates do not fully take into account the effect of the advance of medical science in recent years. It is common knowledge that many diseases regarded a few decades ago as incurable now show a fair percentage of recoveries. Similarly, the death rates in epidemics are in general much lower now than formerly, owing partly to the steps taken to prevent the spread of the disease, partly to the necessity of early notification in most countries, and partly to increased medical knowledge. Again, many diseases seldom or never result fatally. Death-rate statistics are therefore supplemented by data relating to illness.

The principal source of statistics of illness in New Zealand, apart from that resulting in death, comes from the public hospitals, to which some 85 per cent of all hospital inpatients are admitted. Information concerning every person discharged from a public hospital is collected and tabulated (from 1 January 1950) in accordance with the International Statistical Classification of Diseases, Injuries, and Causes of Death, and published annually in the Health Department's publication *Medical Statistics*. Similar information was formerly published in the Annual Report on Vital Statistics issued by the Census and Statistics Department. At present no attempt is being made to bridge the gap between illness where there was admission to a public hospital and illness where there was no such admission. Other morbidity statistics in New Zealand are those concerning certain notifiable diseases, shown in the next paragraph, those about industrial accidents reported in Section 42, those concerning benefits granted under the Social Security Act reported in Section 7A, and those to sick members of Friendly Societies mentioned in Section 7E.

NOTIFICATION OF DISEASES.—The numbers of all notifiable diseases reported during the calendar year 1952 are shown in the following table; the European figures are given month by month, with the totals for Maoris being shown in the last column.

Disease	All Cases												Maoris	Totals Only	
	January	February	March	April	May	June	July	August	September	October	November	December			
Scarlet fever: streptococcal sore throat	44	31	44	60	56	70	76	73	56	70	60	96	736	10	10
Diphtheria	2	3	1	3	5	12	6	7	4	6	2	1	52	10	10
Typhoid and paratyphoid fever	2	9	8	3	5	10	11	8	3	11	10	85	54	4	4
Pulmonary tuberculosis	114	133	150	129	152	138	149	128	175	170	130	137	1,705	493	493
Other tuberculosis	13	34	26	35	28	41	35	29	32	39	39	40	391	121	121
Meningococcus meningitis	8	5	5	4	5	7	7	16	20	15	5	7	104	16	16
Poliomyelitis	1	4	7	12	6	15	50	75	121	198	192	209	890	29	29
Pneumonic influenza			1	2		2	1	3				1	11		11
Erysipelas	5	13	15	18	20	22	19	14	10	21	18	9	184	8	8
Puerperal fever—															
Following childbirth	4	1	5	1	2		4	2	4	4	4	8	39	4	4
Following abortion	3	1	1	1	2		3	3	1			2	3	21	1
Eclampsia	4	4	10	7	5	4	3	8	9	9	12	8	83	2	2
Tetanus	2	3	3	6	2	2	2	2	3	3	4	4	2	32	3
Hydatids	5	1	6	1	2	3			4	3	9	3	39	14	14
Trachoma			2	4	1		1					1	2	11	9
Ophthalmia neonatorum			3				2	2	2			9	2		
Lethargic encephalitis													1		
Food poisoning	18	27	113	27	22	13	22	5	9	11	27	18	312	41	41
Bacillary dysentery	5	5	11	17	13	4	8	27	15	2	6	2	115	36	36
Amoebic dysentery			5	2	1	2	4		5	4	4	1	28	4	4
Undulant fever	3	4	4	3	4	4	9	7	12	7	11	10	78	5	5
Chronic lead poisoning								6	2				8		
Malaria	1			1		6	14	10	8	2	2	1	45	2	2
Actinomycosis									2				2		
Anchyllostomiasis (hookworm)													1	1	1
Leptospirosis						4	1	5	3	5					

Disease	1948	1949	1950	1951	1952
Maori	27	56	48	49	54
Pulmonary tuberculosis All cases	1,760	1,693	1,769	1,557	1,705
Maori	404	476	475	387	493
Meningococcus meningitis All cases	45	46	51	74	104
Maori	6	8	3	11	16
Poliomyelitis All cases	963	355	72	27	890
Maori	49	9	2	1	29
Puerperal fever and septic abortion All cases	139	87	79	55	60
Maori	1	6	5	5	5
Tetanus All cases	23	19	39	26	32
Maori		2	6	4	3
Hydatids All cases	53	43	38	58	39
Maori	6	16	8	16	14
Food poisoning All cases	160	111	519	456	312
Maori	1	7	11	25	41
Bacillary dysentery All cases	155	155	190	116	115
Maori	59	39	59	28	36
Undulant fever All cases	30	32	45	58	78
Maori	3	1	2	3	5

Scarlet Fever: Streptococcal Sore Throat.—Notifications from this cause continue to remain at a low level.

Diphtheria.—Notifications again fell at 52 (Europeans 42, Maoris 10), this being a new low record.

Typhoid and Paratyphoid Fever.—Only sporadic cases occurred in 1952.

Meningococcus Meningitis.—In 1952 the incidence was slightly higher than for recent years—104 cases (Europeans 88, Maoris 16)—as compared with 74 (Europeans 63, Maoris 11) in 1951.

Poliomyelitis.—Between July 1952 and April 1953 New Zealand experienced its fifth major epidemic of poliomyelitis in a space of thirty-eight years. This was unexpected, for whereas previously major epidemics have occurred at approximately ten-year intervals, this recent outbreak began barely three years after the end of the 1947–49 epidemic. Furthermore, while all four earlier epidemics had begun explosively in the summer the latest began gradually in the autumn and was at its worst in winter and spring.

From 1 April 1952 to 1 April 1953 total cases numbered approximately 1,292. For the calendar year 1952 the number of cases notified was 890 (October–December being the worst months). The disease tended to be more severe in older people, there being 20 deaths in 510 patients under fifteen years, and 27 deaths in 380 patients over 15 years. Included in the total of 890 were 29 Maoris. The number of paralysed cases was 502 and non-paralysed 388. Details for the years 1951 and 1950 are summarized herewith. Cases in 1951 totalled 27 (of whom 18 were paralysed), while deaths numbered 3. There was only 1 Maori case included in the total. For 1950, cases recorded were 72 (including 2 Maoris), of which 17 were paralysed, with 2 deaths resulting.

The 1947–49 epidemic first appeared in November 1947 and continued with undiminished intensity throughout 1948, and only died down in the middle of 1949, although it was less intense than the previous epidemics. In the period November 1947 to July 1949 the number of cases and suspected cases notified was 1,720, of which 1,406 proved positive. Of these, 805 showed evidence of paralysis or paresis, and there were 77 deaths from the disease.

The youngest age group (0–4 years) which in 1916 and 1924–25 suffered the highest attack rate dropped to third place in 1947–49. The incidence in the higher age groups was greater than in previous epidemics. The number of deaths in the 1947–49 epidemic was 77, of whom 42 were males and 35 females. These numbers included 5 Maori males and 1 Maori female. The case mortality for all cases was 5.1 per cent for males, 5.9 per cent for females, with a combined rate of 5.5 per cent. For paralysed cases the mortality rates were: males, 9.3 per cent; females, 9.9 per cent; combined, 9.6 per cent. The highest mortality rates were in the higher age groups, particularly in females over thirty years of age.

The attack rate varied considerably in different parts of the country and the incidence in the New Plymouth Health District (22.43 per 10,000 of population) was markedly higher than elsewhere. The epidemic took approximately one year to travel from Auckland to Dunedin, although air transport covers the distance in a few hours. The outbreak in Wellington was unusual in that it was almost entirely a winter outbreak, whereas elsewhere the incidence showed a lessened intensity in the winter months.

As indicated earlier, there were differences between the major epidemics of poliomyelitis in respect of their duration, and this applies also to their intensity, severity, and distribution by age groups. Data showing these features for the four earlier epidemics were given on pp. 99–100 of the 1953 issue of the Year-Book.

Hydatid Disease.—The figures for 1952 (Europeans 25, Maoris 14) show a fall over those of previous years. As a result of the educational activities of the Department of Health, carried out in conjunction with the Department of Agriculture, farmers' organizations in several parts of the country have become very conscious of the existence of the disease, and are giving valuable assistance in encouraging their members to dose their dogs and to avoid re-infecting them.

Food Poisoning.—The reported cases were Europeans 271, Maoris 41. It is certain, however, that while outbreaks involving numbers of people are generally reported there must be many sporadic cases and family outbreaks which are dismissed as "summer sickness" or gastric flu."

Undulant Fever.—The notified cases of this disease show a rising tendency, although probably only a small proportion of the total infections are notified. All cases are due to *Bt. abortus*, the infectivity of which, for humans, is relatively low.

Veneral Disease.—In the early war years the incidence of venereal disease increased considerably, but after 1941 there was an appreciable decrease. This trend was not sustained, however, and a new peak for gonorrhoea was reached in 1946, while the incidence of syphilis also increased substantially. The 1947 and 1948 figures for gonorrhoea showed some improvement, but an increase was recorded in 1949. New cases of syphilis rose very steeply in 1948, but there were considerable reductions between 1949 and 1952. Gonorrhoea has shown little marked change during the period 1950 to 1952. The following table shows the number of persons seen for the first time at the venereal-disease clinics in the four main centres of Auckland, Wellington, Christchurch, and Dunedin, during each of the years 1948–52, and found to be suffering from gonorrhoea or syphilis.

Year	Gonorrhoea			Syphilis		
	Males	Females	Total	Males	Females	Total
1948	993	360	1,353	161	111	272
1949	1,104	396	1,500	107	107	214
1950	818	313	1,131	64	87	151
1951	961	283	1,244	55	72	127
1952	847	310	1,157	34	50	84

A large proportion of these recorded male cases refer to first attendances of infected seamen visiting our main ports. So far as the local population is concerned, as indicated by the figures for females, these diseases are relatively uncommon except in the Auckland district, where the number of new female infections remains high.

Tuberculosis.—With an intensification of case-finding by all tuberculosis workers in recent years the position regarding notification of tuberculosis has improved to a degree that enables a reasonable picture of the disease to be presented as it affects this country. From a study of the returns over the last few years there is reason to believe that the annual increase in notifications of the disease has reached stability, and that an addition of approximately 250 cases (including Maoris) per year in the national total of notified cases can be expected. The Department of Health is continuing its efforts to reduce both incidence and mortality. The corps of District Health Nurses available for tuberculosis case-finding work has been increased, and hospital clinics in the charge of chest specialists have now been provided to give a wider coverage. The responsibilities of the Department of Health in case-finding and domiciliary care are being co-ordinated with that of the Hospital Boards, which are responsible for diagnosis and treatment.

The medical officers of the Department of Health assist the District Nurses in the examination of contacts and arrange tuberculin tests and X-ray examinations. One mass miniature X-ray unit has been in operation for over three years in Taranaki, a unit is established in Christchurch, and other units are available for Auckland, Wellington, and Dunedin. Special investigation by these methods is directed towards those groups of the population which are likely to show a high incidence of the disease, and this type of work is being extended. Cases that are found to be tuberculosis, or suspected of having the disease, are referred to hospital chest clinics, which assess the diagnosis and prescribe treatment. The supervision of "after care" on discharge from a hospital or sanatorium then becomes the joint responsibility of the District Nurse and the hospital clinic staff.

As a contribution to prophylaxis, health education is being stimulated, and B.C.G. vaccination against tuberculosis has been commenced in hospital staffs and contacts and adolescents.

The following figures reflect the work performed by the district nursing service and school medical officers in this connection during the five years 1948–52.

	1948	1949	1950	1951	1952
Total number of homes under control	9,283	9,687	9,880	10,283	10,578
Number of new contacts brought under supervision during year	2,748	5,423	5,121	4,728	5,102
* Not available.					

	1948	1949	1950	1951	1952
Total number of contacts under surveillance during year—					
Found to be tuberculosis	244	272	476	223	286
Removed from list	*	3,238	2,582	2,858	2,359
Remaining under supervision	*	23,103	24,194	23,834	24,684
Totals	24,161	26,613	27,252	26,915	27,329
* Not available.					

The Department of Health maintains a Tuberculosis Register, which attempts to classify all known cases, and a clearer conception of the type, form, and extent of the disease is being obtained as workers become more accustomed to provide the necessary information. The number of cases on the Register (inclusive of Maoris) at 31 December 1952 was 11,221, of which 9,771 were pulmonary and 1,448 non-pulmonary. The number of new cases notified in 1952 was 2,096, of which 1,482 were European and 614 Maori. Of the European cases, 1,212 were pulmonary and 270 non-pulmonary, and in the Maori cases the figures were 493 and 121 for pulmonary and non-pulmonary respectively. Some of these cases have since proved non-tuberculosis and have been deregistered.

The total number of persons on the register at the end of 1952 amounted to 4.31 per 10,000 of the European population, and 26.04 per 10,000 of the Maori population. The combined figure was 5.62 per 10,000.

PUBLIC HOSPITALS: Patients Treated.—The hospitals to which the following statistics relate include all except private hospitals.

The following table shows the numbers of patients treated annually since 1946, the rate per 10,000 of the population, and the average length of stay of patients in hospital.

Year Ended 31 March	Total Patients Treated	Rate Per 10,000 of Mean Population	Average Stay (Days)
1946	176,864	1,034	24.2
1947	179,658	1,013	21.1
1948	174,814	964	21.0
1949	181,348	980	20.3
1950	187,259	990	20.2
1951	190,681	994	19.7

The total number of patients treated has risen by about 14,000, though the rate per 10,000 of the population has not increased, but has, in fact, shown a slight decline. Accommodation for the extra number hospitalized has to some extent been found by a reduction by almost 20 per cent in the average length of stay of patients.

Age and Sex of Patients.—The next table shows the number of patients discharged from or dying in hospital during 1950 according to their age and sex, with the rate per 10,000 of the population of the same ages and sex, and the average length of time spent in hospital. The figures for women exclude admissions for pregnancy, childbirth, or puerperal conditions.

Age Group, in Years	Males			Females		
	Number of Patients	Rate Per 10,000 Mean Population	Average Stay (Days)	Number of Patients	Rate Per 10,000 Mean Population	Average Stay (Days)
0–7	14,465	846	15.0	10,779	659	15.6
8–14	7,227	633	16.6	5,596	507	17.3
15–44	25,932	625	21.1	25,053	617	21.3
45–64	13,287	727	26.0	11,741	632	26.2
65 and over	11,101	1,345	36.3	8,161	909	41.0

It will be seen that there are proportionately more admissions for men than for women at all ages, especially at the extremes of life. The length of time spent on the average in hospital shows an increase with age, as at first gradual then rising more steeply in the evening of life, so that the average number of days spent in hospital by persons aged sixty-five and over is four times greater per head than that for persons under sixty-five. The numbers in this former age group are steadily rising, but the demand for hospital beds for them enlarges fourfold and this must become a factor of increasing importance in the provision of hospital beds.

Principal Diseases.—A summary is now given of the principal diseases treated in public hospitals during the year 1950, based on a modification of the "C" list of the International Classification. Later figures are not yet available. Cases of normal delivery in childbirth are excluded. All figures given are inclusive of Maoris.

It should be noted that the disease or condition for the treatment of which a patient is admitted to hospital is not necessarily that which would rank as the cause of death in the death statistics. Cystitis, for instance, ranks comparatively high in hospital cases as the condition immediately affecting the patient, but is frequently only the consequence of some more important disease, which would take precedence over cystitis in the statistics of causes of death. As indicated earlier, the hospital returns now show each disease for which the patient was treated during his stay in hospital, but the classification for statistical purposes has been made on the basis of the principal disease for which he was admitted, regardless of what other diseases may have been present or developed during the stay of the patient in hospital. In the death statistics, on the other hand, the primary cause of decease is of paramount importance. In the hospital statistics a case admitted on account of the fracture of any bone is treated and classified as "fracture." Should the patient die, however, the death would be classified in the mortality statistics according to the cause of the fracture—e.g., motor-car accident, accidental fall, etc. The morbidity code, with a few exceptions and a considerable extension of the accident group, follows the mortality code fairly closely, and a comparison of the morbidity and mortality statistics can be obtained without difficulty.

SUMMARY OF PRINCIPAL DISEASES TREATED IN PUBLIC HOSPITALS DURING 1950

Disease	Total Cases in Public Hospitals	Deaths in Public Hospitals	Fatality Rate, Per Cent
Tuberculosis of respiratory system	3,174	302	9.5
Tuberculosis, other forms	1,133	92	8.1
Syphilis and its sequelae	335	34	10.1
Gonococcal infection	139		
Dysentery, all forms	420	3	0.7
Other infective diseases commonly arising in intestinal tract	251	12	4.8
Scarlet fever	595		
Diphtheria	46	3	6.5
Whooping-cough	225	10	4.4
Measles	43	1	2.3
Mumps	10		
Hydatids	137	6	4.4
All other diseases classified as infective and parasitic	2,159	56	2.6
Malignant neoplasms, including neoplasms of lymphatic and haematopoietic tissues	4,620	1,374	29.7
Benign neoplasms, and neoplasms of unspecified nature	2,599	33	1.3
Allergic disorders	1,271	29	2.3
Diseases of thyroid gland	764	16	2.1
Diabetes mellitus	1,224	64	5.2
Avitaminosis and other deficiency states	77		
Anaemia	364	35	9.6
Psychoneuroses and psychoses	2,509	49	2.0
Vascular lesions affecting central nervous system	1,855	927	50.0
Diseases of eye	2,209	4	0.2
Diseases of ear and mastoid process	2,573	11	0.4
Rheumatic fever	487	29	6.0
Chronic rheumatic heart disease	174	39	22.4
Arteriosclerotic and degenerative heart disease	2,292	945	41.2
Hypertensive disease	1,331	328	24.6
Diseases of veins	2,599	40	1.5
Acute nasopharyngitis (common cold)	211		
Acute pharyngitis and tonsillitis, and hypertrophy of tonsils and adenoids	8,813	4	0.1
Influenza	1,031	9	0.9

Disease	Total Cases in Public Hospitals	Deaths in Public Hospitals	Fatality Rate, Per Cent
Pneumonia	4,771	425	8.9
Bronchitis	1,722	102	5.9
Silicosis and occupational pulmonary fibrosis	9	4	44.4
All other respiratory diseases	2,783	103	3.7
Diseases of stomach and duodenum except cancer	2,250	109	4.8
Appendicitis	5,667	29	0.5
Hernia of abdominal cavity	3,018	27	0.9
Diarrhoea and enteritis	1,289	37	2.9
Diseases of gall-bladder and bile ducts	2,439	69	2.8
Other diseases of digestive system	3,964	158	4.0
Nephritis and nephrosis	369	84	22.8
Other diseases of urinary system	2,225	50	2.2
Diseases of male genital organs	1,962	77	3.9
Diseases of female genital organs	5,529	11	0.2
Complications of pregnancy, childbirth, and the puerperium	8,459	26	0.3
Boil, abscess, cellulitis, and other skin infections	3,646	7	0.2
Other diseases of skin	1,664	8	0.5
Arthritis and rheumatism, except rheumatic fever	1,871	17	0.9
Diseases of bones and other organs of movement	4,120	9	0.2
Congenital malformations and diseases peculiar to early infancy	3,040	371	12.2
Symptoms, senility, and ill-defined conditions	6,205	235	3.8
Other specified diseases	5,925	582	9.8
Fractures	7,594	267	3.5
Burns	1,153	23	2.0
Poisoning	672	22	3.3
Other injuries	10,704	104	1.0
Special conditions and examinations without sickness	2,682		
Admissions for convalescent care, plastic treatment, and fitting of prosthetic devices	447		
Totals	141,849	7,411	5.2

Chapter 5. SECTION 5—PUBLIC HEALTH, HOSPITALS, ETC.

Table of Contents

[5.A—PUBLIC HEALTH](#)

[5.B—HOSPITALS AND CHARITABLE INSTITUTIONS](#)

[5.C—MENTAL HOSPITALS](#)

5.A—PUBLIC HEALTH

DEVELOPMENT OF PUBLIC HEALTH SERVICES IN NEW ZEALAND.—Before 1872 there was no public health service in New Zealand. A few local authorities appear to have exercised a crude form of negative sanitary government, but otherwise little seems to have been done. Certainly no attempt was made to cope with outbreaks of diseases, even when they assumed epidemic proportions.

In 1872 the first Public Health Act became law. Under it a Central Board of Health was set up in each province and power was given to each Central Board to set up Local Boards of Health as required.

The Central Boards each consisted of the Provincial Superintendent, the Provincial Executive Council, and three other members. They acted mainly in a supervising capacity and took little active part in initiating or controlling preventive health measures. They were required to make periodical reports to the Governor of the colony, but, in fact, few were made.

The local Board of Health was usually the local authority for the area concerned. The Board was normally financed from rates, though if appointed by the Central Board it could be financed by parliamentary appropriation. In general its function was to administer the Public Health Act in its district, and it had power to appoint a medical adviser, who was in all cases a part-time officer.

The abolition of the provinces in 1876 brought the disappearance of the provincial Central Boards of Health and the establishment of one Central Board of Health for the whole colony. Otherwise there was practically no change in the system which had existed since 1872.

The first period of public health administration in New Zealand came to an end in 1900. It is doubtful whether at any time during these twenty-eight years the administration of the 1872 Act and the later consolidating Act of 1876 was marked by much energy or thoroughness. Local Boards were hampered by lack of finance and by lack of zeal and knowledge. The powers of their Medical Officers (where appointed) were limited, and often the advice given by these officers was disregarded. The incidence of typhoid fever, a good index to the sanitary standards of a community, remained high throughout the whole of this period.

In 1900 the outbreak of bubonic plague in Australia stimulated the authorities to action. In that year a Bubonic Plague Prevention Act was passed which, later in the same year, was repealed and embodied in the Public Health Act 1900. Under this Act public health administration in New Zealand was put on a much more satisfactory basis. A separate Department of Public Health was set up under its own Minister; the country was divided into a number of health districts, and properly trained and qualified staff were appointed to administer the Act. In the years following the establishment of the Department steady progress was made in the building-up of a public health organization. Acts were passed dealing with the sale of food and drugs; the registration of medical practitioners, pharmacists, nurses and midwives, plumbers; the prevention of quackery; and the control of venereal disease. Sanatoria were established to help in the prevention and treatment of tuberculosis. Attention was given to problems of maternal welfare. Medical supervision of school children came into operation, at first under the control of the Education Department, though in 1921 it was transferred to the Department of Health.

In 1909 a closer link between curative and preventive medicine was forged by merging the Hospitals and Charitable Aid Department into the Department of Public Health's organization.

During the years 1900 to 1920 there was also an increasing public interest being taken in health matters. As a result a number of voluntary health organizations were established with the objects of diffusing knowledge of infant welfare, first aid, and home nursing.

The 1918-19 influenza epidemic brought to light a number of defects in the public health organization, particularly the need for a simplification of existing health legislation and the need for a clear definition of the duties of local authorities, Hospital Boards, and the Department of Health. The result of this experience was the passing of the Health Act 1920 under which, with its amendments, the Department of Health has since operated.

Following the passing of this Act new health districts were created and the existing activities of the Department were expanded. Among the more important of the new activities of the Department were the establishment of a School Dental Service in 1920, the building-up of health publicity work, and, in 1937, the institution of the Medical Research Council. Registration was also widened to include dentists, opticians, and masseurs.

The interest of the general public in health matters continued to expand after 1920, and was marked by the establishment of additional voluntary health organizations.

Recent developments have included a more positive attack on the problem of tuberculosis marked by the passing of the Tuberculosis Act 1948 and the establishment of the National Health Institute. At the end of 1947 the Mental Hospitals Department ceased to be a separate Government Department, and became the Division of Mental Hygiene of the Department of Health.

A more detailed outline of the development of public health services in New Zealand up to 1939 will be found in the annual report of the Department of Health for that year.

PRESENT ORGANIZATION OF PUBLIC HEALTH SERVICES.—Local Authorities: Part II of the Health Act 1920 lays definite obligations on local authorities in regard to public health. Each local authority must either appoint its own Sanitary Inspectors or contribute to the salary of an Inspector of the Department of Health. Each Inspector must hold a certificate of the Royal Sanitary Institute (or certain equivalents) before he can be appointed. A local authority's responsibility in health matters is wide. It must promote and conserve the public health within its district—a function which includes regular inspections of its district; abatement of nuisances as defined in the Health Act; provision of efficient refuse, nightsoil, and sanitary services; protection and purification of water supplies; closing and demolition of insanitary buildings; registration and regulation of cattle saleyards; and the enforcement of certain minimum sanitary requirements for residences and business premises. It may also make by-laws dealing with public health matters. In certain circumstances some local authorities may be exempted from the above duties, but in such cases the Department must do whatever is necessary for the promotion and conservation of public health in that district. All expenses incurred are recoverable from the local authority concerned.

Department of Health: The chief administrative officer of the Department is the Director-General of Health. He is assisted by two Deputy Directors, and the work of the Department is divided among the following Divisions—Public Hygiene, Hospitals, Child Hygiene, Nursing, Clinical Services, Tuberculosis, Private and Maternity Hospitals, Dental Hygiene, Occupational Health, and Physical Medicine. There is also the Division of Mental Hygiene, the activities of which are described in Section 5c. New Zealand as a whole is divided into fourteen health districts, each under the control of a Medical Officer of Health, who must be a medical practitioner with special qualifications in sanitary science.

The Department is required to take whatever steps are necessary to secure the preparation, effective carrying out, and co-ordination of measures necessary to promote public health. It administers all Acts relating to public health; it advises local authorities on matters relating to public health; it must do whatever is possible to prevent, limit, or suppress disease; it promotes research into matters connected with public health and the prevention and treatment of disease; it conducts health publicity and organizes and controls medical, dental, and nursing services paid from public funds. With the authority of the Minister, a Medical Officer of Health may exercise very wide powers in the event of an outbreak of infectious disease, including the requisitioning of land and buildings, prohibition of public gatherings, and controlling the movements of cases and contacts of any infectious disease. Certain diseases, mostly infectious, but including some non-communicable, must be notified by medical practitioners. Provisions relating to quarantine are included in the Health Act, and extensive power is given to make regulations relating to the conservation and promotion of public health.

The Department's organization includes a Board of Health, which may in certain circumstances require local authorities to carry out prescribed works.

In addition to the Health Act 1920, a summary of which is given in the 1927 issue of the Year-Book, the following Acts are administered by the Department:

Cemeteries Act 1908.
 Dangerous Drugs Act 1927.
 Dentists Act 1936.
 Dietitians Act 1950.
 Food and Drugs Act 1947.
 Hospitals Act 1926.
 King George the Fifth Memorial Children's Health Camps Act 1953.
 Medical Act 1908.
 Medical Advertisements Act 1942.
 Medical Practitioners Act 1950. Medical Research Council Act 1950.
 Mental Defectives Act 1911.
 Nurses and Midwives Act 1945.
 Occupational Therapy Act 1949.
 Opticians Act 1928.
 Physiotherapy Act 1949.
 Plumbers Registration Act 1953.
 Poisons Act 1934.
 Radioactive Substances Act 1949.
 Social Hygiene Act 1917.
 Social Security Act 1938 (Part III).
 Tuberculosis Act 1948.

A detailed report of the activities of the Department of Health is given in the annual report of the Director-General of Health (parliamentary paper H-31).

The actual expenditure on the activities of the Department of Health for the years ended 31 March 1952 and 1953, and the estimated expenditure for the year ended 31 March 1954, are given in the following table.

—	Expenditure, Year Ended 31 March 1952		Expenditure, Year Ended 31 March 1953		Estimated Expenditure, Year ended 31 March 1954	
	£	£	£	£	£	£
Salaries, departmental officers	1,049,096		1,106,048		1,210,661	
Health education and publicity	30,556		24,383		30,000	
Medical bursaries	18,903		16,675		13,700	
Subsidies under Hospitals Act	8,293,729		9,618,373		10,280,000	
Medical research work	40,000		40,000		40,000	
Grants to voluntary organizations	109,378		100,170		112,060	
Departmental institutions	319,530		348,179		367,000	
Other costs of administration	626,052		724,382		838,465	
Expenditure from Consolidated Fund	10,487,244		11,978,210		12,891,886	
Maternity benefits	884,781		919,422		980,700	
Medical benefits	2,760,583		3,047,202		3,229,300	
Hospital benefits	2,112,494		2,135,218		2,213,800	
Pharmaceutical benefits	2,428,216		3,015,833		3,272,200	
Supplementary benefits	1,181,953		1,310,922		1,481,000	
Expenditure from Social Security Fund	9,368,027		10,428,592		11,177,000	
Total Expenditure by Department	19,855,271		22,406,807		24,068,886	

The above figures do not include expenditure on mental hygiene, which, for the year ended 31 March 1952, was £2,288,589; for the year ended 31 March 1953, £2,446,344; and which was estimated to be £2,638,114 for the year 1953-54.

PUBLIC HEALTH ACTIVITIES.—This account covers measures relating to "preventive" medicine, as distinct from activities in "curative" medicine, which are dealt with elsewhere in this volume—see Section 5B (Hospitals) and Section 5C (Mental Hospitals). Information on medical, hospital, and other related benefits, which are administered by the Department of Health, is given in Section 7A (Social Security).

It is convenient to consider public health activities under headings which correspond generally to certain of the divisions within the Department of Health. These headings are—

Public Hygiene.
 Dental Hygiene.
 Tuberculosis.
 Maternal Welfare.
 Child Hygiene.
 Occupational Health.

PUBLIC HYGIENE.—The Health Act places responsibility for the maintenance of the public health largely on the Department, but local authorities have powers and duties to perform in a number of sanitary and inspection services. Each of the fourteen health districts in New Zealand is under the control of a Medical Officer whose duties include the administration of all enactments relating to Public Health and who can provide local governing bodies with expert advice in this field. Public Hygiene is concerned more particularly with the control of infectious disease, environmental hygiene, food and drugs, poisons and addiction-producing drugs, and burial and cremation.

Disease: The control of disease is based on a system of notification which has long been in force. The present list of notifiable diseases is as follows.

Notifiable Infectious Diseases—

Acute poliomyelitis (infantile paralysis).

Anthrax.
Cerebro - spinal fever (cerebro - spinal meningitis).
Cholera.
Dengue.
Diphtheria.
Dysentery (amoebic and bacillary).
Encephalitis lethargica.
Enteric fever (typhoid fever, paratyphoid fever).
Erysipelas.
Fulminant influenza.
Leprosy.
Leptospiral infections.
Ophthalmia neonatorum.
Plague (bubonic or pneumonic).
Pneumonic influenza.
Puerperal fever (puerperal septicaemia, puerperal sapraemia).
Puerperal fever, involving any form of puerperal sepsis other than, or in addition to, puerperal septicaemia and puerperal sapraemia.
Salmonella infections.
Septicaemia consequent upon abortion or miscarriage.
Septicaemic influenza.
Any form of sepsis or sapraemia consequent upon abortion or miscarriage.
Smallpox (variola, including varioloid, alastrim, amaa, Cuban ich and Philippine ich).
Streptococcal sore throat (including scarlet fever).
Trachoma (granular conjunctivitis, granular ophthalmia, granular eyelids).
Typhus.
Undulant fever.
Yellow fever.

Other Notifiable Diseases—

Actinomycosis.
Anchylostomiasis (hookworm disease).
Bilharziosis (endemic haematuria, Egyptian haematuria).
Beriberi.
Eclampsia.
Hydatids.
Food poisoning (botulismus, ptomaine poisoning).
Chronic lead poisoning.
Malaria.
Phosphorus poisoning.
Tetanus.

All forms of tuberculosis are notifiable under the Tuberculosis Act 1948.

Veneral Diseases: Veneral diseases, while scheduled infectious diseases, are only notifiable if the patient discontinues treatment before cure is effected. The Veneral Diseases Regulations 1941 give adequate powers for the examination and treatment of persons suspected of suffering from the diseases. Free treatment has been established in the larger cities and treatment is available to seamen at the main ports in accordance with the Brussels Agreement. Restrictions are also placed on the nature of the employment such persons may undertake if they are suffering from the diseases in a communicable form.

In the administration of the regulations, every precaution is taken to ensure the avoidance of publicity.

Environmental Hygiene is concerned with the provision and proper maintenance of public water supplies and sewerage systems, the disposal of refuse, the condition of dwellings-houses, the control of offensive trades, and the hygiene of premises in which food is manufactured and sold, including eating-houses. These matters are primarily the responsibility of the local authorities, but the Department of Wealth acts in a general advisory capacity. In the case of many of the smaller local authorities the necessary inspections are made by departmental Inspectors on behalf of and by arrangement with the local authorities.

Food and Drugs: Legislation relating to the sale of food and drugs has been in force since 1908. The Act at present in force is the Food and Drugs Act 1947. It provides for the analysis, by analysts appointed under the Act, of any article of food or drink, or of any drug, which may be sold, offered for sale, or exposed for sale, and for the inspection of any place where there is any food or drug intended for sale. If any such article is proved to be unfit for human consumption heavy penalties may be inflicted on the person or persons responsible. Stringent measures are provided for the prevention of adulteration of food, drink, or drugs, and for the inspection of places where such goods are manufactured or packed. Control is also established over all utensils and appliances coming into contact with food and drugs.

Considerable progress has been made in implementing the purposes of the Act. All the common foodstuffs are standardized, and the labelling of packages is controlled by regulations, which are revised and added to as the necessity arises. Regular sampling of foods, particularly milk, is undertaken by departmental Inspectors, and these samples are analysed in the Dominion Laboratory and its branch laboratories.

An important provision of the Act controls all kinds of publicity concerning any food or drug whereby a purchaser would possibly be deceived in regard to the properties of such food or drug, whether or not it is standardized by regulation. This matter is also covered by the Medical Advertisements Act 1942, which is referred to later.

The definition of "drug" includes medicines used externally or internally by man, anaesthetics, soaps, and disinfectants.

Any person may, on payment of the prescribed fee, together with the cost of the sample, require any authorized officer to purchase a sample of any food and submit it for analysis.

A new power contained in the 1947 Act enables any drug to be withheld from the public except when prescribed by a doctor, dentist, or veterinary surgeon.

Dangerous Drugs and Poisons: In order to carry out New Zealand's obligations under international conventions relating to habit-forming drugs, the Dangerous Drugs Act 1927 was enacted. The dealing in and the use of prepared opium are prohibited, and the production, manufacture, sale, and distribution of other dangerous drugs are restricted to persons licensed by the Director-General of Health. The importation of these drugs is controlled by the Customs Department. Provision is made to prevent illicit traffic in drugs of a habit-forming nature. Suitable regulations, the Dangerous Drugs Regulations 1951, are in force to give effect to the provisions of the Act, and are similar to the regulations in the United Kingdom and Australia.

The Poisons Act 1934 controls the proper labelling and packing of poisons, and in particular requires that all liquid poisons be packed in bottles of distinctive colour and shape. It is an offence to pack poisons in bottles that are ordinarily used for food, drink, or medicine. The Act also provides for the control of certain poisonous drugs by preventing their sale to the public except on the prescription of a doctor, a dentist, or a veterinary surgeon. The

regulations under the Poisons Act follow the corresponding legislation in force in the United Kingdom. Power to introduce special safeguards for certain dangerous chemicals now used in horticulture is contained in the Poisons Amendment Act 1952.

After 1 July 1954 labels for poisons in the "Deadly Poison" group must bear statements of the precautions to be taken in using the poison, the symptoms of poisoning, and the remedial treatment, and must be approved by the Director-General of Health.

Hydatid Prevention: In January 1937 an amendment to the Dogs Registration Act 1908 came into force requiring local authorities to keep a supply of approved remedies for the care or prevention of disease in dogs caused by infection from the parasite *echinococcus granulosus*. At the time of registration every person registering a dog receives a sufficient amount of an approved remedy to enable him to treat the dog every three months until the ensuing date of registration, and also printed instructions for the use of the remedy. The approved remedy at present supplied is arcoline hydrobionide.

Medical Advertisements Act 1942: This Act, which repealed the Quackery Prevention Act 1908, came into force in January 1943. Under it the word "advertisement" is defined broadly, but does not include any advertisement or scientific matter distributed only to members of the medical and allied professions.

The Act sets up a Medical Advertisements Board, which is given power to control all medical advertisements. The Board may require the claims or statements made or implied in any medical advertisement to be substantiated to its satisfaction. Subsequent publication of such an advertisement is prohibited until after the Board has notified its decision. For the purpose of protecting the public the Board is given power to publish privileged statements concerning the subject matter of any medical advertisement.

Regulations issued under the Act limit the nature of the subject matter which may be included in any medical advertisement, and include a list of diseases concerning which no advertisement may make a claim to cure.

Cemeteries: The law governing burial and cremation in New Zealand is found in the Cemeteries Act 1908 and its amendments of 1912, 1922, 1926, 1950, and 1953. The registration by local authorities of funeral directors and mortuaries operated by them is provided for in the Health (Burial) Regulations 1946.

Widespread provision for cemeteries has been made in the past by the reservation of areas of Crown land for this purpose, but apart from this the Cemeteries Act makes it clear that local authorities are charged with ensuring that in their districts there exists adequate provision for the disposal of the dead.

In most rural areas and in the smaller centres the local authority either acts as trustee or else has been delegated the power of appointing individual trustees to carry out the provisions of the Act. For some cemeteries established on Crown reserves trustees are appointed by the Governor-General. In the larger centres local authorities have acquired land for the establishment of cemeteries.

The law provides that cremation may be carried out subject to the conditions that the deceased was not known to have left any written direction to the contrary and that the cremation is effected in conformity with the regulations. The latter impose stringent precautions against cremation being used for any criminal purpose. Crematoria have been established in Auckland, Wellington, Christchurch, Dunedin, Hastings, Wanganui, Nelson, and Palmerston North.

TUBERCULOSIS.—In the 1947–49 issue of the Year-Book (pp. 110–112) is given an account of the developments in the control of tuberculosis in this country, which led to New Zealand being one of the first countries to have special legislation dealing solely with this disease. In addition to giving the background to the Tuberculosis Act 1948, the account mentions the work of the Tuberculosis Division of the Department of Health and refers to the recommendations of the World Health Organization.

Briefly, the control of tuberculosis is based on—

1. Accurate notification and registration of cases.
2. Adequate supervision and reclassification.
3. Segregation of active infectious cases.
4. Instruction and treatment of individual patients.
5. Rehabilitation of convalescent and arrested cases.

There is statistical evidence to suggest that these methods of control are resulting in a decrease in the death rate and the incidence of the disease, although it will be several years before this can be confirmed.

In addition to the programme of vaccination with B.C.G. Vaccine, which has been commenced on a voluntary basis in certain sections of the population, particularly nurses and contacts of cases of tuberculosis, a campaign of vaccination has been commenced amongst the post-primary-school children and young adults.

The 1950 amendment to the Tuberculosis Act 1948 empowers Inspectors of Health, in addition to those classes of persons already specified, to make inspections of residences or places of work of persons known or suspected to be suffering from tuberculosis or to be a contact of such a sufferer. The principal Act is also amended by strengthening those powers relating to isolation, in certain cases, of persons likely to spread infection.

CHILD HYGIENE.—The Division of Child Hygiene is responsible for the supervision of all measures for safeguarding the health of school children and ensuring a satisfactory environment at school. The medical oversight of pre-school children from age eighteen months is also provided for.

The professional staff of the Division consists at present of a Director, who is a medical practitioner, and seventeen full-time and ten part-time Medical Officers. The Medical Officer in charge of a health district is responsible, within the limits of the policy laid down and the instructions he receives, for the direction and control of all child hygiene work done in his district.

The Division aims at giving each primary-school child at least three physical examinations during his primary-school life. The first, as an entrant, is carried out by the Medical Officer, and the others, in Standard 2 and Form II, by the Public Health Nurse, who refers any departure from normal for a special examination by the Medical Officer. Special medical examinations by the Medical Officer are also made whenever parents, teachers, the Public Health Nurse, or the Medical Officer consider them to be necessary. Children found to be suffering from defects are kept under observation until the necessary treatment is obtained from the private practitioner or hospital. Mentally backward and feeble-minded children are given special attention, arrangements being made, in conjunction with the Department of Education, for their entry into special schools, special classes, or other institutions as may be necessary.

An effort is being made to have each pre-school child examined once a year, but if the child is normal and of good physique this period may be lengthened and the parent asked to return only if the child shows any departure from normal in the meantime. The examination of pre-school children is carried out at kindergartens and, assisted by the Public Health Nurse, at school clinics, or at Plunket Rooms in conjunction with the Plunket Nurses.

A start has been made on the more detailed medical examination of post-primary-school children. Physically handicapped children enrolled with the Education Department's Correspondence School are also thoroughly examined.

Throughout its work the Division tries to secure the interest and co-operation of parents, because only in this way can the work be made effective. With this object in view parents are invited to be present at the medical examination of their children, an opportunity of which the majority take advantage.

Prevention of Disease: The activities of the Division are not confined to the routine medical examination of school children. In addition, certain positive measures are taken to prevent disease and correct physical defects. The more important of these measures are—

- a. *Diphtheria Immunization.*—Protection against diphtheria is a routine procedure and is provided for by a home visit from the Public Health Nurse, who will herself immunize the child at age from six months to twelve months, or arrange for a medical practitioner to do so. Diphtheria immunization of children who have been missed during the first year of life is undertaken by medical officers at the pre-school clinics. Booster doses are also given by the medical officers when the child enters school.
- b. *Typhoid Inoculations.*—Maori children in the North Island are inoculated annually against the typhoid group of diseases.
- c. *Vaccination Against Whooping-cough* is offered at pre-school clinics to children six months to two years of age.
- d. *Goitre Control.*—The use of iodized salt and iodine-rich foods are advocated by the officers of the Division.
- e. *The Milk-in-schools Scheme* aims at maintenance of nutrition and convalescence.
- f. *Health Camps* are established to which children are admitted for convalescence or correction of malnutrition.

The object of the Milk-in-schools Scheme is to supply to each school child in New Zealand half a pint of pasteurized milk on each day the school is open. The milk, delivered at the school bottled, under the organization of the New Zealand Milk Board is consumed through a straw from the original container. To ensure that the milk delivered to the schools is of the best possible quality the sources of supply are inspected regularly, and the processing and distribution of the milk is subject to close supervision. If for any reason it is not possible to supply a school with milk under the scheme, then powdered malted milk is supplied, provided that it can be served under hygienic conditions. In some schools with facilities available the milk in winter is used in making cocoa.

Health camps cater for delicate and undernourished children in the 5–12 years age group. The service selects the children to attend the camps (which are maintained by an independent organization—the King George the Fifth Memorial Children's Health Camps Federation) and, as necessary, re-examines them before admission and after discharge. In the camps the children live under an orderly and disciplined routine, they eat plain, well-cooked food, and they get plenty of rest and sunshine. In practically all cases a child who attends a health camp benefits both physically and mentally.

DENTAL HYGIENE.—The Division of Dental Hygiene, which was instituted in 1921, is concerned with the administration of the various dental activities of the Government, and in particular—(a) The national dental service which comprises (i) the School Dental Service and (ii) the Adolescent Dental Service; (b) The Dentists Act 1936 and regulations; (c) Dental burseries; (d) Inspection of dental departments of Public Hospitals; and (e) Dental research.

The Division of Dental Hygiene has at its head a Director (a dental surgeon), who is responsible to the Minister of Health, through the Director-General of Health. The Director is assisted by a Deputy Director, an Assistant Director, a Principal Dental Officer (Health Education), and a Principal Dental Officer (Orthodontics). A Senior Executive Officer is responsible for the secretarial services. Also attached to the Director's staff is a Dental Field Research Officer, who is seconded from the New Zealand Medical Research Council.

The service is organized in eight units, each of which is controlled by a senior dental officer, who is directly responsible to the Director. These officers are the Principal of the Dominion Training School for Dental Nurses, the Principal of the Student Dental Nurses Training School, Auckland, and the Principal Dental Officers in charge of the six dental districts into which New Zealand is divided.

The School Dental Service is staffed by trained School Dental Nurses and the Adolescent Service by Dental Surgeons.

The School Dental Service.—Briefly, the functions of the Service are to improve the standard of dental health of school children (and of pre-school children) by affording them regular and systematic treatment at six-monthly intervals, commencing from the primer classes (or earlier where possible), and continuing through to the highest class of the primary (or intermediate) school. Thereafter they are eligible for enrolment in the Adolescent Service. At present an unprecedented increase in the school population is being experienced as a result of the unusually high birth rate of late years. Until the number of Dental Nurses can be increased proportionately, children are being transferred to the "adolescent" service at an earlier stage, in order to enable the Dental Nurses to maintain six-monthly treatment for the younger children. This is a temporary phase, pending the training of more Dental Nurses.

The other main function of the School Dental Service is health education—the instruction of the children and of the general public in the principles of oral hygiene and the prevention of dental disease. For this purpose there is within the Division an organization for health education, to which further reference is made under a later heading.

The Dominion Training School in Wellington is the main training centre for School Dental Nurses. A second training school for dental nurses at Auckland has now been established. Two years are devoted to their theoretical and practical training. Approximately two hundred Student Dental Nurses are in training at the one time. The course is carefully graduated, and is in the hands of a staff of Dental Surgeons and Dental Tutor Sisters. Private dental practitioners are represented on the examining board for the final examination. During the period of training Student Dental Nurses reside in hostels owned and controlled by the Department of Health.

On completing her training, a School Dental Nurse is posted to a school dental clinic, where she becomes responsible to the Principal Dental Officer of her district for the dental treatment of a group of approximately five hundred patients. She is visited at intervals by the Principal Dental Officer or one of his staff, who discusses current problems, and assists the Dental Nurse to maintain a high standard in the conduct of her work.

Dental treatment comprises fillings in both temporary teeth and permanent teeth, cleaning and scaling of the teeth, extractions where necessary, and sodium fluoride treatment. There were 225,819 children under regular treatment by the School Dental Nurses during the year 1952-53. The aim of the Service is to promote dental health by conserving the natural teeth and preventing dental decay. Only a small number of teeth have to be extracted as unsaveable, about six for every hundred saved by suitable treatment.

Orthodontic treatment is carried out principally in Wellington, where an orthodontic section is established at the Wellington Dental Clinic. Dental officers on field clinics undertake a limited amount of orthodontic treatment of a simple nature.

Adolescent Dental Service.—The original aim was to provide dental service for adolescents through the medium of a full-time salaried service, but while the present shortage of dental surgeons continues progress towards this objective will be slow. In addition to the service provided by a number of clinics controlled by the Department of Health, dental care for adolescents is in the meantime being provided by private practitioners as a dental benefit under the Social Security Act, the practitioners being reimbursed on a fee-for-service basis.

Eligibility for dental treatment as an adolescent is contingent upon a person having undergone regular dental care up to within three months of the time of application, either at a school dental clinic or from a private dental practitioner.

Treatment of adolescents is in effect a continuation of the treatment provided by the School Dental Service, and is continued until a patient has reached his nineteenth birthday, or such earlier age as the Minister may from time to time appoint. For the present the maximum age has been fixed as sixteenth birthday.

Treatment is essentially of a nature designed to conserve the natural teeth. Dental supervision of adolescents is on a basis of examination and treatment at six-monthly intervals. There is free choice of dentists, and dentists have the right to decline patients.

The treatment (other than treatment requiring special approval) which may be provided as dental benefits, and the fees payable, are indicated in the 1951 Schedule to the Social Security (Dental Benefits) Regulations 1946. Dentists are free to exercise their professional judgment, and, in their opinion a case demands a form of treatment that is not provided for in the schedule, there is provision, with certain limitations, for such treatment to be approved as a charge on the Social Security Fund.

At 31 March 1953 the number of adolescents enrolled for dental benefits, and the amount paid for dental benefits for the year 1952-53, were—

	Number	Amount Paid, 1952-53
		£
For general dental benefits	160,694	545,003
For special dental benefits	4,123	

Dental Health Education.—The dental health education activities of the Department are under the control of the Principal Dental Officer (Health Education), who is responsible for the production of posters, pamphlets, sound films, film strips, radio talks, newspaper advertisements, and all other types of advertising media. In the departmental health exhibit is a dental section which is staffed when on tour by a Dental Tutor Sister (Health Education) and by School Dental Nurses from the locality in which the exhibit is on view.

Officers of the Service are kept in touch with health education and other matters by mean's of the national *Dental Service Gazette*, which is published bi-monthly.

Dental Officers and School Dental Nurses are expected to impress on their patients the necessity of maintaining a high standard of oral health. To further this end every opportunity is taken of distributing health educational literature, displaying posters, and devoting reasonable clinical time to instruction in oral hygiene. Opportunities to address meetings of various kinds are availed of wherever possible.

Dental Research.—By arrangement with the New Zealand Medical Research Council, a Dental Field Research Officer is attached to the Service. Primarily this officer is engaged in a long-term programme of field research on dental problems, but his services are also available to assist the dental administration in carrying out short-term research projects when information is required for a specific purpose.

In addition to this work, the investigation of dental materials and methods of using them goes on constantly, and provides useful data for the selection and use of materials for the Service.

Dental Bursaries.—The Government grants between twenty and thirty bursaries each year to selected students to assist them to qualify as dentists. The bursaries are of a value of £70 per annum, plus free tuition the value of which is £30, and are subject for five years, subject to satisfactory reports from the University authorities. An additional allowance of £40 per annum is payable to students who have to live away from home in order to pursue their studies. Students who are granted bursaries must enter into an agreement to pursue their studies diligently and, on graduating, to enter the service of the Crown or of a Hospital Board appointed by the Crown for a specified period not exceeding three years.

MATERNAL WELFARE.—Maternal- and infant-welfare work in New Zealand is based on cooperation between the Department of Health, Hospital Boards, the medical profession, and the Plunket Society.

The Director who deals with maternal welfare is a medical practitioner, and the division of the Department is styled "Private and Maternity Hospitals." He supervises the inspection of maternity hospitals, the techniques in use in these hospitals, and, generally, the promotion of all aspects of maternal welfare.

The Medical Officers of Health, through their staff of Nurse Inspectors, exercise a general supervision over the work of midwives and closely control the many private hospitals throughout the country. All private hospitals are required to be licensed under the Hospitals Act 1926, and the Department of Health sees that standards regarding the buildings, equipment, and staff are observed.

Except in an emergency, no persons other than registered medical practitioners and registered midwives are allowed to conduct confinements, and only registered midwives and registered maternity nurses are permitted to nurse women in childbirth. Approximately 97 per cent of all confinements take place in the various types of maternity hospital—a maternity annex to a public hospital, a St. Helens Hospital, or a private maternity hospital.

Important contributions to maternal welfare are made by the Division of Nursing, which includes in its duties the supervision of the training of midwives and maternity nurses, and by the Hospitals Division, which includes in its duties the approval of plans for accommodation to be provided by the various types of maternity hospital. The work of these two Divisions is surveyed elsewhere in this section.

OCCUPATIONAL HEALTH.—In 1944 a Medical Inspector of Factories in Great Britain was seconded to the Department of Health in order to undertake a survey of conditions of work in New Zealand factories. In his report he suggested "that consideration be given to the formation within the Department of Health of a Division of Industrial Hygiene to include the factory inspectorate, relieved of all other duties and to administer those parts of a new Factories Act and such other legislation as is concerned with the health, welfare, and safety of the industrial worker".

The principle of a Division of Industrial Hygiene was accepted, and the first medical appointment to the new Division was made during 1946, the appointment taking up his duties in January 1947. The name of the Division has since been changed from "Industrial Hygiene" to "Occupational Health," the new title giving a better indication of the scope of the work that might well eventually be covered. Four District Industrial Medical Officers have also been appointed to work in the four main centres, and a fifth in Palmerston North. Between them they cover the whole of New Zealand, under the general direction of the Director of the Division at the Head Office of the Department of Health.

A prominent characteristic of the diversification of New Zealand industry is that it is of recent growth and is contained in small units. In many of the small factories, on account of the high *per capita* cost, amenities tend to be of a lower standard than in the average large factory. A substantial proportion of small factories, in addition to a number of the larger ones, fail to conform to the 1946 Factories Act standards, and the first objective of the Occupational Health Service, therefore, must be to assist the Department of Labour and Employment to establish the minimum standards required by the Act. In this the District Industrial Medical Officers need to work in close co-operation with the inspectors of the Department of Labour and Employment, and in order to facilitate this liaison, office accommodation has been provided in most centres for the medical officers in the District Labour and Employment offices.

The Factories Act 1946, section 78, gives to Medical Officers of Health or other authorized officers of the Department of Health the same powers and authorities as Inspectors of Factories with regard to the health and welfare sections of the Act. The Act gives the officers of the Department of Health no legal standing in relation to the provisions for safety, although the lost time caused by accidents demands more preventive work in which medical men and nurses with an industrial training should play a part.

The Division has also the more confined objective of guarding the health of those workers who are exposed to the special health risks, such as those handling lead salts, or liable to breathe dangerous fumes, or those who are in contact with skin irritants. Inevitably there is a great deal of ignorance and lack of consciousness on the part of management and workers of the dangers and hazards associated with their work. Education on these matters, together with publicity and propaganda, will do much to raise the level of understanding and is properly a function of the Division.

In 1947 an industrial nursing course was incorporated into the syllabus of the Post-graduate Nurses' Training School, and this has been repeated in subsequent years. Nurses completing this course have been appointed to the Department of Health, attached to the staff of the District Industrial Medical Officers, or to Government Departments such as the Railways and Post and Telegraph. These nurses have had special training in blood examination of workers at risk from lead absorption, and their duties include the monthly blood examination of such workers required under the Lead Process Regulations. Other groups of workers with special risk from health hazards, such, for example, as those in electro-plating shops, are included under the regular supervision of the nurses, who are also available for any special work that may be required in looking after juveniles, pregnant women, or physically handicapped workers.

In addition, a number of industrial nurses are employed by the larger private firms. A Nurse Inspector appointed by the Department of Health regularly visits these nurses in order to advise them in their work and to co-ordinate and broaden the conception of a health service in industry. Part of this officer's time is occupied as tutor at the Post-graduate Nurses' School in Wellington.

In 1952 an Investigating Officer was appointed to the Division. He is available to travel throughout the country investigating special problems and surveying the health risks of particular industries and occupations, in co-operation with the District Industrial Medical Officers.

The Division is concerned with the health of all workers, not merely those covered by the Factories Act, and from time to time surveys of working conditions are undertaken in specific industries. As a result of inspections and reports on conditions of work of waterside workers at Wellington, Lyttelton, and Auckland, industrial health centres have been set up at each of these ports, staffed by the Department's industrial nurses and under the supervision of the Industrial Medical Officer for the area. An industrial health centre has been established in the Woolston area of Christchurch and another at the Foreshore, Dunedin, to serve industries in the neighbourhood. These are situated in premises made available by one of the larger firms in each area. The first *ad hoc* industrial health centre has been built in the Petross area of Auckland, the cost of construction being borne by the Workers' Compensation Board. Contributions towards maintenance costs will be made by the Petross Industrial Progress Association, and equipment and nursing staff provided by the Department of Health.

Radiation Protection.—An important step was taken with the passing of the Radioactive Substances Act 1949. Although the dangers associated with the generation and use of X-rays have long been realized, there had previously been no statutory authority for specific control of X-ray plants and their operators. The hazards arising from the high voltages employed have been well known, but it was not until 1944, when the Electrical Wiring (X-ray) Regulations were drawn up, that these hazards became subject to specific control. With the increasing use of radium in medicine and the possibilities that have appeared in the last few years of radioactive elements being used in fundamental research, there has come about a need for legislation designed to protect all persons from harmful radiations. Factors contributing to the realization of this need have been that X-ray equipment of old design was still being used and that X-rays have found an increasing use in industry, and even in some special branches of merchandising, such as the fitting of footwear.

The Radioactive Substances Act 1949 established a special council of radiologists and physicists, who will advise the Minister of Health on all questions of a technical nature. The Act set up a very thorough licensing system for all users of irradiating apparatus and radioactive substances, and gave very wide powers for the making of specific regulations. These latter, known as the Radiation Protection Regulations 1951, have specific requirements relating to the health of those persons whose work is likely to expose them to harmful radiations, ventilation of rooms in which these radiations are produced, quantitative limitations on the exposure of persons to radiation, and generally those precautions and protective devices which will all contribute to safe practice. The same regulations require full records to be kept of various uses of radiations, in order that long-term effects on a person's health may later be traced. Separate regulations, the Transport of Radioactive Substances Regulations 1951, have been made to deal with all aspects of the packing, shielding, labelling, and transport of radioactive substances, and, in addition, the Department has issued to all radiation workers, to supplement the regulations, a booklet entitled "Recommendations for Protection from Radiation Hazards."

In all problems associated with the use of irradiating apparatus and radioactive substances the Dominion X-ray and Radium Laboratory at Christchurch is playing an important part.

PHYSICAL MEDICINE.—The Division of Physical Medicine is concerned primarily with rheumatic diseases, which are responsible for a very large amount of morbidity in this country.

Its work is centred mainly on the Queen Elizabeth Hospital, Rotorua, where there is an active research unit in operation, engaged in endeavouring to ascertain the causation of the various rheumatic diseases and the best means of treatment.

The treatment of cerebral palsy is another function of the Division. There is a special diagnostic and treatment unit centred at the Queen Elizabeth Hospital, Rotorua, which also provides post-graduate tuition for those engaged in this work in other centres.

The Division is also responsible for the general organization and maintenance of physiotherapy and occupational therapy in the public hospitals of this country. The various spa facilities, particularly those at Rotorua, are under immediate control of the Division, which is also keenly interested in the problem of rehabilitation of the disabled.

NURSING DIVISION.—Training of nurses commenced in New Zealand in 1886 and registration of nurses was introduced in 1901 and of midwives in 1904. In 1921 the Division of Nursing was set up in the Department of Health and the Nurse Inspector of Hospitals was appointed Director of the Division. In 1928 a Post Graduate Course for the purpose of providing nurses for executive, teaching, and public health positions was established. Today a strict and study day system of organization of theoretical and practical work operates in practically all nursing schools, and any reasonable experimentation by the schools is encouraged.

The training of all nurses and midwives is governed by the Nurses and Midwives Act 1945. This Act is administered by the Nurses and Midwives Board, which comprises mainly nurse members who are in active practice, and is independent of political and departmental control, although the Director-General of Health is the Chairman, and the Director, Division of Nursing, is the Registrar. The current regulations under the Act are the Nurses and Midwives Regulations 1947.

The Division is responsible for the maintenance of an adequate and efficient nursing service and the supervision of conditions, including health for nurses and other staff and recruitment of nurses.

The Nurses and Midwives Board delegates to the Division the supervision of hospitals and nursing schools on all aspects of training, and also the examination and registration of nurses. The Nurse Supervisor who makes a visit to a hospital carries out the dual purpose, therefore, of making reports each to the Director-General of Health through the Nursing Division, and to the Nurses and Midwives Board. This integration of work is a feature which has preserved good relationships in the hospitals, and has enabled the practical and theoretical training of nurses as well as their conditions to be maintained at a uniformly high standard.

The control of most of the public health nursing services and of district (home) nursing is exercised from the Division, although the specialized infant welfare and mothercraft work of the Plunket Society is under the control of that organization; close co-operation with this Society is, however, maintained.

Another part of the work is the selection and placement of nurses in the various groups of Pacific islands for which the New Zealand Government is responsible either under Trusteeship or Mandate. These nurses for hospital and public health work are seconded from the New Zealand service for periods of two years, pension rights being continuous. The supervision of this service is exercised by regular visits to the islands.

Close liaison exists between the nursing services organized for the Armed Services and the Division, while any organization for emergency nursing is carried out by the Division.

The organization of refresher courses for all groups is another responsibility, while the Post Graduate Course is a special feature of its work. As already stated this was organized in 1928 and is controlled by a committee on which the Department of Health, the University, and Hospital Boards Association, are represented. Courses are followed in Hospital and Nursing School Administration, Public Health Nursing, Medical Social Work, Industrial Nursing, and Teaching and Administration in Obstetric Nursing. Up to sixty students take the eight months' course annually, and with few exceptions they are specially selected and attend on bursaries from the Department of Health, Hospital Boards, and voluntary organizations, while during recent years there has been an increasing number from overseas countries. The school has its own building, library, classrooms, offices, and hostel. The full-time instructors at the school conduct the refresher courses during the school recess, and also carry out supervision of hospitals, nursing schools, and public health work, thus keeping up to date with the practical needs of the field.

The New Zealand Nurses' Association is an active body having relationships with the Nursing Division, it being represented by three members on the Nurses and Midwives Board and by two on the Nurses Salaries Board, while at the annual Conference and more frequent Executive meetings various matters are brought to the notice of the authorities concerned.

New Zealand with its small population, good climate, and good standard of living, should have a comparatively healthy people, but has its particular health and social needs. The administration on the nursing side has expanded to meet these and the increasing opportunities for service in the fields of human welfare.

MEDICAL RESEARCH COUNCIL.—Under the Medical Research Council Act 1950 a Medical Research Council was set up with the following functions:

- To foster medical research and to prepare and publish such reports on these matters as may in its opinion be necessary or of value to teachers or other persons.
- To furnish information, advice, and assistance to persons and organizations concerned with medical research.

This Council took over and developed the work of a departmental committee, bearing the same name, which had been in existence since 1938. At the end of 1952 research in the following fields was in progress:

- Chest diseases.
- Clinical medicine.
- Dentistry.
- Endocrinology.
- Island Territories research.
- Microbiology.
- Neuropathology and neurophysiology.
- Nutrition.
- Obstetrics.

The Council maintains liaison with the research work being carried out by the Travis Trust Laboratory for tuberculosis research and the New Zealand Branch of the British Empire Cancer Campaign Society.

REGISTRATION COUNCILS AND BOARDS.—Medical Practitioners: The Medical Council of New Zealand, constituted under the Medical Practitioners Act 1950, consists of the Director-General of Health, the Dean of the Faculty of Medicine in the University of Otago, and five other registered medical practitioners. One of the five members is appointed on the recommendation of the New Zealand Branch of the British Medical Association.

The Council deals with all applications for registration under the Act, which prescribes that every person shall be entitled to conditional registration who satisfies the Council that he is a graduate in medicine and surgery of the University of New Zealand; or registered on the register kept in accordance with the provisions of the Acts regulating the registration of medical practitioners in the United Kingdom or the Republic of Ireland; or the holder, after a course of not less than five years, of a foreign diploma approved by the Council. The Council may, however, refuse to approve any diploma (even in the case of persons registered in the United Kingdom or the Republic of Ireland) unless it appears that New Zealand graduates are, without further examination, entitled to registration in the country granting the diploma. It may also require the holder of a foreign diploma to attend a course and pass an examination in medicine and surgery.

The fee for registration is £5, which is payable on deposit of evidence of qualifications. An applicant who is refused registration has the right of appeal to the Supreme Court. Each year every registered medical practitioner who is not specially exempted under the Act and who is actually practising medicine in New Zealand is required to obtain an annual practising certificate, the fee payable being £1.

The Medical Council is vested with certain disciplinary powers. Right of appeal to the Supreme Court is provided. The Supreme Court, on the motion of the Medical Council, may order the removal of a name from the register in cases where a medical practitioner is guilty of grave impropriety or infamous conduct in a professional respect, or is convicted of an indictable offence punishable by imprisonment with hard labour for a term of two years or upwards. The Medical Council is also given power to hear appeals against the decisions of the Medical Practitioners Disciplinary Committee also set up under the Medical Practitioners Act 1950. Any person involved who feels aggrieved by the decision of the Medical Council on an appeal from the Disciplinary Committee may appeal to the Supreme Court against the Council's decision.

The Medical Council has been given power to institute an internship scheme in New Zealand. This became effective from 1 December 1952.

The number of medical practitioners on the register at 30 June 1953 was 2,781.

Dentists: The Dentists Act 1936 provides for the constitution of a Dental Council, the functions of which are to examine and approve of the qualifications of applicants desiring registration as dentists and to exercise disciplinary control over registered dentists.

The Dentists Register is kept by the Director-General of Health, to whom applications for registration are addressed. The applications are submitted by the Director-General of Health to the Dental Council for consideration and direction regarding acceptance for registration. The Director-General of Health may issue to any person who has applied for registration as a dentist a provisional practising certificate which entitles the person to practise dentistry pending consideration of his application by the Dental Council.

Every adult person is entitled to be registered as a dentist who satisfies the Dental Council that he is the holder of a qualification in dentistry obtained from the University of New Zealand; or that he is the holder of a qualification approved by the Dental Council and obtained from a University or other institution in the United Kingdom or in some other part of the British Commonwealth (in the latter case, however, the Council may require a further examination); or is the holder of an approved foreign qualification, but the Council may refuse to approve any foreign qualification if New Zealand graduates in dentistry are not accepted for registration without further examination in the country concerned, or the Council may require the applicant to pass a further examination.

The fee for initial registration is £5. If a provisional practising certificate is required, there is a further fee of 5s. A fee of £1 per annum is payable for an annual practising certificate.

The number of private dental practitioners holding annual practising certificates at 31 March 1953 was 732.

Nurses and Midwives: Under the Nurses and Midwives Act 1945 is constituted the Nurses and Midwives Board, consisting of the Director-General of Health (Chairman), the Director, Division of Mental Hygiene, the Registrar (Director, Division of Nursing), one registered medical practitioner, a representative of the Hospital Board's Association of New Zealand, two registered nurses, one registered midwife, and one registered psychiatric nurse. Members other than official members are appointed on the recommendation of the Minister of Health, the nursing personnel being nominated by the New Zealand Registered Nurses' Association.

The functions of the Board are—

1. To determine the courses of training and instruction to be undergone by candidates for examination.
2. To approve hospitals and other institutions at which training or any portion of training may be received.
3. To conduct examinations; to appoint examiners and make all necessary arrangements for examinations; to issue suitable certificates of registration.
4. To receive applications for registration and to authorize registration in proper cases.
5. To have regard to the conduct of persons registered under the Act, and, within the scope of its authority, to do whatever may be necessary for the effective administration of the Act.

Under the Act, regulations authorized by the Governor-General by Order in Council may be made, the current regulations being the Nurses and Midwives Regulations 1947.

Registration.—The Nurses and Midwives Act 1945 requires that the following registers be kept by the Registrar: (a) Nurses, (b) Midwives and Maternity Nurses, (c) Male Nurses, (d) Psychiatric Nurses, and (e) Nursing Aids.

Every person trained in New Zealand who satisfies the Board that she or he has served the stipulated training period, has passed the prescribed qualifying examination, and has complied with the other conditions laid down by the Act is entitled to have her or his name entered in the appropriate register. In addition, persons trained outside New Zealand who satisfy the Board that their training and qualifications are equal to the equivalent New Zealand training and qualifications are entitled to be registered in the appropriate New Zealand registers.

In the case of New Zealand trained nurses the fee payable for the qualifying examination includes the registration fee. Overseas-trained nurses whose applications for registration have been approved by the Board are required to pay a fee of £1 for the initial qualification and a further fee of 10s. for each additional qualification. A practising fee of 5s. is payable annually.

Physiotherapists: Under the Physiotherapy Act 1949 is constituted the New Zealand Physiotherapy Board, consisting of the Director-General of Health, the Principal of the New Zealand School of Physiotherapy, Dunedin, the Inspecting Physiotherapist of the Department of Health, one registered medical practitioner nominated by the Minister, and three practising physiotherapists nominated by the New Zealand Society of Physiotherapists (Incorporated).

The Board is concerned with the training, examination, and registration of candidates for physiotherapy practice, and has regard to the conduct of those registered under the Act.

At present the training period is three years. Full time training for male and female students is conducted at the New Zealand School of Physiotherapy, Dunedin, and six months of the final year is spent at one of the subsidiary training schools in various parts of New Zealand. At the conclusion of training all students are required to pass the State final examination in physiotherapy in order to qualify for registration. The fees payable for examination and registration are prescribed by regulations under the Act.

Every person registered under the Act and engaged in the practice of physiotherapy must hold an annual practising certificate. The fee payable is 10s. per annum.

The Act also provides for the admission to the register of overseas personnel whose standard of training is acceptable to the Board.

Occupational Therapists: Under the Occupational Therapy Act 1949 is constituted the Occupational Therapy Board, consisting of the Director-General of Health as Chairman; the Director, Division of Nursing as Registrar; the Director, Division of Mental Hygiene; the Medical Superintendent of a mental hospital; the Supervisor of Occupational Therapy; a Medical Superintendent of a public hospital; a representative of the Red Cross Society; a representative of the Occupational Therapists' Association, and one other person appointed by the Minister.

The Board is concerned with the training, examination, registration, and conduct of persons engaged in the practice of occupational therapy in New Zealand.

The training period is at least two years, and is undertaken at the School of Occupational Therapy, Avondale, Auckland.

Every person registered under the Act and engaged in the practice of occupational therapy in New Zealand must hold an annual practising certificate.

The Act also provides for the admission to the register of persons trained outside New Zealand whose standard of training is acceptable to the Board.

Dietitians: Under the Dietitians Act 1950 is constituted the Dietitians Board, consisting of the Director-General of Health as Chairman; the Dean of the Faculty of Home Science of the University of Otago; the Director, Division of Nursing, Department of Health; the Nutritionist, Department of Health; Inspecting Dietitian, Department of Health; two dietitians nominated by the New Zealand Dietetic Association (Incorporated); and one other person appointed by the Minister of Health.

The functions of the Board are (a) to advise and make recommendations to the Minister of Health in respect of any matter affecting the profession of dietetics, (b) to determine courses of training and instruction to be undergone by candidates for examinations, (c) to approve hospitals and allied institutions as training schools, (d) to conduct examinations, (e) to effect registration, (f) to have regard to the conduct of persons registered under the Act, and (g) to effectively administer the Act.

The training period is, in the case of the holder of a degree in home science conferred by the University of New Zealand or of the holder of a Diploma of Associate in the Home Science of the University of Otago, fifteen months in a hospital training school. In the case of a registered nurse, the training period is two academic years in the School of Home Science, University of Otago, together with two periods totalling ten months in a hospital training school.

At the conclusion of training all students are required to pass the State examination for dietitians in order to qualify for registration. The fees payable for examination and registration are prescribed by regulations under the Act.

Every person registered under the Act and engaged as a practising dietitian must hold an annual practising certificate. The fee payable is 10s. per annum.

The Act also provides for admission to the Register of overseas personnel whose standard of training is acceptable to the Board.

Opticians: The Opticians Act 1928 provides for the constitution of an Opticians Board, consisting of the Director-General of Health (the Registrar), three persons engaged in practice as opticians in New Zealand (one of whom must be practising as an employee of another registered optician), and a registered medical practitioner with special knowledge of diseases of the eyes.

The Board deals with all applications for registration under the Act. On payment of the prescribed fee (£5), every person is entitled to registration as an optician who satisfies the Board that—

- a. He has received satisfactory training qualifying him to practise as an optician and is the holder of a certificate of qualification recognized by the Board; or
- b. He has passed an examination under the Act, both theoretical and practical, after a course of not less than three years' approved training in New Zealand as prescribed by regulations, or produces evidence of satisfactory training overseas.

An annual practising certificate fee of £1 is required.

Regulations pursuant to the Opticians Act 1928 prescribe the conditions and period of training and the syllabus for the examination conducted by the Opticians Board.

The number of opticians on the register at 30 June 1953 was 305.

Plumbers: The Plumbers Board of New Zealand, constituted under the Plumbers Registration Act 1953, consists of five members—viz., the Director-General of Health or his deputy (Chairman), the Director of Education, a city or borough engineer nominated by the Municipal Association of New Zealand, and a master plumber and a journeyman plumber elected by their respective associations.

The Board is concerned with the examination and registration of plumbers. Once registered under the Act a plumber is not required to pass any further examination or pay licence fees to local bodies.

The total of names on the register at 31 March 1953 was 4,069, but they were not all employed in the plumbing trade.

Pharmaceutical Chemists: There are about 1,250 names on the Register of Pharmaceutical Chemists in New Zealand. All "registered pharmaceutical chemists" automatically become members of the Pharmaceutical Society of New Zealand. The Society's affairs being managed by the Pharmacy Board constituted by the Pharmacy Act 1939.

The Board consists of twelve members, one of whom is appointed by the Minister of Health, nine are elected on a district basis by registered pharmaceutical chemists, and two by persons, not necessarily registered pharmaceutical chemists, who have served an approved apprenticeship and who, at the time of the election, are employed in pharmacy. The main function of the Pharmacy Board is to administer the Pharmacy Act and generally to protect and promote the interests of the profession of pharmacy and the interests of the public in relation thereto.

It is a specific requirement of the Pharmacy Act that pharmacies in New Zealand be at all times maintained under the immediate supervision and control of a registered pharmaceutical chemist, either in the capacity of proprietor or enrolled manager.

The Board has reciprocal arrangements with the pharmaceutical authorities of Great Britain, Northern Ireland, Republic of Ireland, and all the Australian States in the matter of registration. Any person registered as a pharmaceutical chemist in any of these places is eligible for registration in New Zealand. Persons registered as pharmaceutical chemists in New Zealand, similarly, are eligible for registration in the countries mentioned.

The Board conducts the examinations prescribed in the Pharmacy Regulations. A person completing these examinations, as well as an approved apprenticeship of four years, qualifies for registration as a registered pharmaceutical chemist.

The College of Pharmacy in Wellington was taken over as a function of the Society at the beginning of 1944 after having been conducted privately for a period of eleven years. All persons indentured after 1 October 1944 are obliged to attend personally at the College for a period of three weeks during their final year of apprenticeship.

Pharmacy is subject to the provisions of the Industrial Efficiency Act 1936, every open shop being under licence. No company or individual may open a pharmacy or change his premises without consent from the Licensing Authority—namely, the Bureau of Industry. There are approximately 700 pharmacies at present licensed.

VOLUNTARY WELFARE ORGANIZATIONS.—Over the years voluntary welfare organizations have made valuable contributions to the solution of certain problems of public health. In many cases they are encouraged and assisted in their work by grants from public funds. Among the more important of these organizations are the Plunket Society, the King George the Fifth Memorial Children's Health Camps Federation, St. John Ambulance (N.Z.), the New Zealand Red Cross Society, the Crippled Children Society, and the New Zealand Federation of Tuberculosis Associations.

The Plunket Society—the Royal New Zealand Society for the Health of Women and Children—trains its own baby-welfare nurses, conducts baby-welfare clinics throughout the country, and maintains four Karitane Hospitals for premature babies or difficult feeders, but not catering for the sick baby. The oversight of the healthy baby is left to the Plunket Society, except in those areas where there is no Plunket clinic. In these areas the Health Department District Nurse does baby-welfare work.

The King George the Fifth Memorial Children's Health Camps Federation maintains a chain of permanent health camps for delicate and undernourished children. The Federation works in close co-operation with the Department of Health. It is the means whereby the voluntary nature of the various organizations is preserved, while ensuring that the available resources are utilized to the best advantage. Much of the finance for the Federation's activities is derived from the proceeds of the annual health stamp appeal.

The St. John Ambulance (N.Z.) has divisions throughout the country carrying out free ambulance work and instruction in first aid and home nursing. It is a branch of the Venerable Order of the Hospital of Saint John of Jerusalem.

The New Zealand Red Cross Society, a part of the International Red Cross Committee, has centres and sub-centres throughout the country. It gives training in first aid, home nursing, hygiene and sanitation, and emergency transportation of the injured. Graduates of these classes form voluntary aid detachments that in peacetime are recruited as aids in hospitals, and in wartime may be recruited for service overseas as well.

The Crippled Children Society keeps a register of all crippled children, helps them to acquire all possible medical treatment, and undertakes vocational training and home education where this is required.

The New Zealand Federation of Tuberculosis Associations looks after the interests of the tubercular. It assists the Department of Health with health education of the public regarding tuberculosis and concerns itself with after-care and vocational training and guidance.

NATIONAL PHYSICAL WELFARE AND RECREATION.—Because of the abundant natural facilities for popular recreation, New Zealand citizens have always been characterized by a love of outdoor sporting and recreational activity. Although, compared with the other countries of the world, there are large areas available as playing-fields, even in the cities, the demand still exceeds the supply. On the other hand, the long coastlines and frequent mountain ranges enable most people to enjoy outdoor life. A temperate, equable climate ensures the use of facilities on a year-round basis.

The most popular summer sports are swimming and surfing, tennis, cricket, athletics, lawn bowls, softball, rowing, and cycle touring.

Rugby football is the premier sport in winter, but there are enthusiastic and numerically large followings for hockey, association football, tramping, ski-ing and mountaineering, outdoor and indoor basketball, badminton, and table tennis. Both professional and amateur boxing and wrestling are quite popular winter sports, whilst the game of indoor bowls, hitherto confined to isolated areas, is attracting increasing numbers.

Generally speaking, facilities for indoor sports are inadequate in the face of the growing interest and participation in such sports as indoor basketball, badminton, table tennis, and indoor bowls. There is a growing realization of this inadequacy, and steps are being taken, usually in conjunction with community-centre movements, to provide and maintain indoor sporting facilities of a high standard.

All sporting activities in New Zealand are organized on a district basis, with representatives from each district forming a national controlling body. In this way every sport has a number of associations, unions, sub-associations, etc., which control the sport in each district from the strictly local aspect, while a New Zealand association (or union) is the controlling body in all matters of nation-wide significance in that particular sport.

An exception to this arrangement, whereby each sport is responsible for its own administration, is that of selection of representatives for the Olympic and the Empire Games. There exists in New Zealand an Olympic Council made up of representatives of all sports bodies interested in Olympic and Empire Games competition.

Organizational and Practical Assistance in Learn to Swim Campaigns.—Extensive "Learn to Swim" campaigns are conducted each summer by the Department of Education (for school children) and by the Physical Welfare and Recreation Branch in conjunction with swimming associations (for adults). Frequently the two organizations combine in specific district campaigns.

During the last three summers an extensive publicity campaign has been conducted in an effort to decrease the incidence of deaths by drowning.

Community Centres.—A noteworthy trend in New Zealand of recent years has been the formation and planning of community centres in many districts. This trend has been facilitated by the Government subsidy on a pound-for-pound basis for such "living" war memorials as community centres, halls, and play areas. In addition to conforming to the requirements for a living war memorial, projects must be sponsored by the local authority in order to ensure future maintenance.

Financial Assistance for Sport and Recreation.—Provision was made in the Physical Welfare and Recreation Act 1937 for the making of grants by the Government to assist sport and recreation. Such grants are not made for honoraria, travelling expenses, personal uniforms, or general administrative expenses, nor where it is considered that an organization can carry out a project without grant assistance—i.e., grants are made only for additional capital expenditure.

5 B—HOSPITALS AND CHARITABLE INSTITUTIONS

HISTORY.—Authentic information regarding the earliest steps taken to establish public hospitals is meagre. In July 1841 mention is made in the *New Zealand Government Gazette* of the appointment by the Government of the first Colonial Surgeon with Auckland as his headquarters. Apparently there was some institution in existence for European patients who obtained admission by applying to the Colonial Secretary, who was the only person having this authority. In the case of Maoris it was different; all that was required of them was to present themselves at the institution.

Due to Governor Grey's efforts, which were at first criticized by many, the Government in 1846 consented to grant money for the erection of hospitals in each of the four centres—Auckland, Wellington, Wangani, and Taranaki—for the treatment of sick and destitute Europeans and free treatment for all Maoris. The foundation stone of the Wellington Hospital was laid in November 1846, whilst the Auckland Hospital was founded the following year.

It is recorded that the first Dunedin Hospital was built in 1851, and that Christchurch was first served by a hospital at Lyttelton when it was being operated in 1853.

In 1854 control of public hospitals was vested in the six Provincial Councils of Auckland, Taranaki, Wellington, Nelson, Canterbury, and Otago, but in 1876, following the abolition of the provinces, the hospitals reverted to the General Government.

As the result of a conference between local authority representatives and the Government in 1878 the first two hospital districts as they are now known were formed. They were based respectively on the hospitals of Dunstan (Clyde) and Cromwell. However, hospitals generally remained under Government control until 1885, when the first Hospitals and Charitable Institutions Act was passed. By it New Zealand was divided into thirty-eight hospital districts, each under the control of its own Board.

In 1886 the Hospitals and Charitable Institutions Amendment Act was passed giving power to two or more hospitals to join into a united district and control their own affairs. The legislation followed a recommendation of the Inspector of Hospitals that thirteen of the thirty-eight hospitals be closed as the population in some districts was insufficient to support a fully-equipped hospital. Instead of taking advantage of this legislation districts have moved in the opposite direction, and by amending legislation the number of districts gradually increased until by 1909 there were forty-seven; amalgamations since that date have reduced the number to thirty-seven, at which it now stands. In 1948 the title of the Act was changed to the Hospitals Act.

CONSTITUTION.—A "hospital district" comprises one or more counties and includes boroughs and town districts within the boundaries of the county or counties. The County Councils, Borough Councils, and Town Boards are the "contributory local authorities" within the hospital district.

Districts vary in size from Auckland with a population of 394,980 down to Maniototo which has only 2,860 people.

A Board consists of one or more representatives of each contributory local authority district or combined districts of two or more contributory districts where these do not justify independent representation, the number being fixed by the Governor-General by Order in Council, having regard to the relative populations and relative values of rateable property of the local authority districts. The total number of members of any Board must in no case be less

than eight or more than twenty.

Board members are elected by the electors of the various contributory districts or combined districts in the hospital district, and the term of office is three years. Formerly electors in counties required a ratepayer's qualification, whereas electors in boroughs and town districts required only a residential qualification, and this applied even though the elected members sat on the same Board. Legislation in 1946 made the residential qualification universal.

POWERS.—A Hospital Board has power to establish, control, and manage any of the following institutions: hospitals, charitable institutions, maternity homes, convalescent homes, sanatoria, habitual inebriates' homes, reformatory institutions for women and girls, residential or day nurseries, and any other institutions for any purpose which the Governor-General by Order in Council may declare to be a public charitable purpose.

A Board cannot do the following without the consent of the Minister of Health:

- Borrow money for the purpose of either maintenance or capital expenditure.
- Expend more than the sum of £250 for the purpose of erecting, adding to, or altering buildings, or of purchasing land, or for paying off any loan, or for any other purposes of capital expenditure.
- Sell or exchange land.
- Close an institution.
- Make grants to medical or nursing associations or to hospitals.
- Make appointments to certain specified staff positions.

AUTHORITY OF DIRECTOR-GENERAL OF HEALTH.—It is the duty of every Hospital Board to provide and maintain such hospitals as the Director-General of Health considers necessary in any part of the district for the reception, relief, care, treatment, isolation, and removal to hospital or "other place" of persons who are suffering from infectious or other disease or from injury, and for maternity cases.

A Board must appoint such number of medical practitioners, dentists, nurses, dental nurses, midwives, and other officers as the Director-General may from time to time deem necessary for the care and treatment of persons in the district of the Board, whether within an institution under the control of the Board or elsewhere within the district. The Director-General is authorized to visit and inspect hospitals and to appoint Assistant Inspectors, and is required to report to Parliament through the Minister on the administration of the Hospitals Act.

FINANCE.—When Boards were first established in 1885 they obtained their revenue from the following sources:

- Voluntary contributions and bequests.
- Government subsidy £1 for £1 on voluntary contributions and bequests.
- Patients' fees.
- Levy on contributory local authorities by rate on the capital value of land.
- Government subsidy on levies paid from general taxation.

Voluntary contributions and bequests and subsidy thereon at no time formed an important part of Board revenue, and in 1932 the subsidy in this connection was abolished.

In the earliest days public hospitals were meant only for the destitute sick, but as time went on the standard of service was greatly improved and gradually they were availed of by all sections of the community. The hospitals charged a fee which covered cost of maintenance, and patients able to pay were expected to do so. Fees collected were usually found to form about one-third of a Board's total revenue.

Until 1923 the subsidy on levy was paid at the rate of £1 for £1 for both capital and maintenance purposes, but in that year the subsidy on account of maintenance was amended to a scale which had relation to the burden of levy on the rates of local authorities: the Board with the highest burden was paid 26s. subsidy; the Board with the lowest burden was paid 14s. subsidy; the average of all Boards remained at 20s. subsidy.

Under the Social Security Act 1938 a charge was made on all salaries and wages and other income, and the proceeds were paid into a special fund named the Social Security Fund. The charge was fixed at 1s. in the pound, and in 1946 it was raised to 1s. 6d. in the pound. The Act was to provide, *inter alia*, "a system whereby medical and hospital treatment will be made available to persons requiring such treatment." Hospital benefits for inpatients were inaugurated in 1939. The effect of this change was to transfer the liability for payment of patients' fees from the patient to the Social Security Fund. The charge on the Fund was initially fixed at 6s. per patient per day, being the average collection made by the Boards from patients. To keep up with the rising cost of maintenance the rate in 1943 was increased to 9s. per day.

At this stage the proportions of revenue derived from the three main sources of Social Security Fund, levy on local authorities, and Government subsidy from general taxation were almost even. Rising costs led to increases in the levies on local authorities and property owners complained that they were being asked to carry an unfair burden as compared with other sections of the community. As a result legislation was passed in 1946 limiting the levy on contributory local authorities to 0.5d. in the £1 of rateable capital value, and this had the immediate effect of transferring a substantial portion of Boards' cash requirements from levy to the subsidy paid from general taxation. Also it followed that any further increases in cost would fall solely on the subsidy except to the extent that increases in rateable capital value of property increased the amount of levy. In consequence of this development the proportions of revenue derived from the main sources have changed. The approximate position for 1950-51 was, Social Security Fund, 25 per cent; levy, 15 per cent; subsidy, 55 per cent. The Hospitals Amendment Act 1951 provides for the abolition of the levy on contributory local authorities by an annual reduction of the rate of levy during the next five years. The first reduction was made for the year ended 31 March 1953, when the rate was 5½d. on the capital value. For the year ending 31 March 1954 the levy is 4½d. per £1 of rateable capital value.

Board expenditure is subject to a measure of control by the Minister of Health. Boards are required in the month of April each year to make an estimate of their expenditure for both capital and maintenance purposes and to have the estimates confirmed at a special meeting of the Board. The Minister may, if he thinks it necessary so to do, require the Board to amend the estimate submitted.

Receipts.—Following is a summary of the actual receipts and payments of all Hospital Boards for the years ended 31 March 1952 and 1953.

	1951-52		1952-53	
	£	£	£	£
—				
Voluntary contributions and bequests	2,903	23,503		
Payments from Social Security Fund and by inmates of old people's homes	2,769,121	2,905,209		
Levies	1,852,880	1,748,186		
Subsidies	8,195,054	10,137,098		
Rent, interest, and dividends	47,303	45,396		
Sale of capital assets	17,228	23,048		
Miscellaneous	108,747	108,301		
Totals, excluding loans	12,993,236	14,990,741		
Loans for capital works	911,958	1,508,301		
Totals	13,905,194	16,499,042		

Payments.—Actual payments during the same two years (excluding payments between Boards) are now given.

	1951-52		1952-53	
	£	£	£	£
—				
Hospital maintenance	10,238,662	11,046,327		
Old people's homes: Maintenance	242,253	261,815		
Outdoor relief	19,434	22,946		
Subsidies to private hospitals, grants to Ambulance Association, etc.	70,495	82,462		
District nursing	99,144	108,387		
Administration	308,451	325,272		
National Provident Fund contributions	122,821	99,122		
Miscellaneous—				
Maintenance	290,776	203,711		
Capital	22,871	103,021		
Interest on loans	213,952	237,907		
Amortization of loans	407,722	496,410		
Capital works other than "loan"	1,016,513	1,194,806		
Totals, excluding loans	13,053,094	14,182,186		
Loan works	924,924	1,492,195		
Totals	13,978,018	15,674,381		

Hospital Maintenance Expenditure.—The average annual maintenance expenditure in general hospitals per occupied bed in the eleven-year period 1942-43 to 1952-53 was as follows.

Year	Provisions		Surgery and Dispensary		Domestic and establishment		Salaries and Wages		Miscellaneous		Totals	
	£	£	£	£	£	£	£	£	£	£	£	£
1942-43	48.5		27.0		65.9		180.6		6.2		328.2	
1943-44	52.4		27.8		71.4		187.0		6.3		344.9	
1944-45	55.0		28.9		69.9		195.2		6.0		355.0	
1945-46	600		33.6		82.9		231.2		7.0		414.7	
1946-47	64.7		39.0		67.3		243.4		8.8		452.2	
1947-48	73.7		47.2		117.4		291.4		11.2		549.9	
1948-49	81.3		56.1		137.9		351.0		11.2		637.5	
1949-50	86.1		56.5		153.9		364.9		12.8		674.2	
1950-51	98.5		62.7		179.5		414.9		14.3		769.9	
1951-52	112.2		77.6		208.5		486.0		16.3		900.6	
1952-53	119.3		80.9		219.3		532.2		16.9		966.8	

Charitable Aid.—The Act of 1885 laid down for the first time that charitable aid should be associated with hospitals and Hospital Boards were charged with the administration of charitable aid. Aid was both "indoor" and "outdoor," the indoor being mainly the provision of homes for aged and destitute people and the outdoor the provision of food, clothing, etc., for people in necessitous circumstances.

The passing of the Social Security Act 1938 reduced materially Boards' charitable-aid activities. Practically all people over the age of sixty without means or having only limited means are entitled under this Act to an age benefit.

The introduction of invalidity benefits in 1936 and sickness and unemployment benefits in 1938 also relieved Boards of an appreciable amount of expenditure on outdoor relief.

Expenditure over the past ten years on old people's homes and outdoor relief is set out hereunder.

Year	Maintenance, Old People's Homes		Outdoor Relief	
	£	£	£	£
—				
1943-44	83,540	37,460		
1944-45	94,355	38,197		
1945-46	112,261	32,536		
1946-47	121,722	21,687		
1947-48	137,493	20,028		
1948-49	151,077	20,361		
1949-50	168,535	18,963		
1950-51	173,202	20,389		
1951-52	194,013	20,322		
1952-53	208,476	22,429		

Cost to Local Authorities and Government.—The following is a comparative statement of levies on local authorities and subsidies payable by Government during each of the five financial years from 1948-49 to 1952-53.

Year	Levies		Subsidies		Total	
	£	£	£	£	£	£
—						
1948-49	1,413,249	4,941,829	6,355,078			
1949-50	1,503,735	4,725,214	6,228,949			
1950-51	1,668,158	5,955,485	7,623,643			
1951-52	1,853,003	8,230,366	10,083,369			
1952-53	1,747,837	9,819,035	11,566,872			

The reduction in levy in 1952-53 is due to the limiting of the levy to 5½d. in the £1 of rateable capital value as from 1 April 1952.

Loans.—Boards have been authorized by the Minister of Health to raise loans to cover a very extensive building programme, but in recent years building progress generally has been slow because of shortage of labour and materials. In consequence, many loans authorized have not yet been floated or have been floated only in part.

The position of loan liability is as under.

Year	Amount Floated		Repayment		Balance		Reducible by Sinking Fund	
	£	£	£	£	£	£	£	£
—								
1948-49	768,981	372,593	5,285,579					121,756
1949-50	547,205	372,481	5,460,301					101,488
1950-51	695,532	353,413	5,802,419					112,188
1951-52	905,473	395,073	6,312,816					108,195
1952-53	1,509,479	451,472	7,370,819					113,323

PUBLIC HOSPITALS.—Section 4F contains statistics of inpatients treated at public hospitals other than purely maternity hospitals. In the following table the figures are inclusive of maternity hospitals, sanatoria; etc., and relate to the financial year instead of to the calendar year.

Year	Inpatients Treated		Average Number of Occupied Beds		Beds Available	
	Total Number	Proportion per 1,000 of Population	Number	Proportion per 1,000 of Population	Number	Proportion per 1,000 of Population
1948-49	181,348	98.0	10,706	5.8	14,221	7.7
1949-50	187,259	99.0	10,902	5.8	14,129	7.5
1950-51	190,681	98.3	10,803	5.6	14,394	7.4
1951-52	200,328	102.3	11,044	5.6	14,288	7.3
1952-53	203,657	101.3	11,199	5.6	14,388	7.2

The average number of occupied beds per thousand of population in hospital districts varies from three to ten. Most of this variation can be accounted for by the relative distribution of population as between urban and rural areas and also by the fact that many hospitals to a varying extent draw patients from other districts. Other factors which influence the figures are the availability of medical practitioners and their habits in sending patients to hospital or retaining them for home treatment, the availability of private-hospital beds, housing facilities, domestic assistance, private or district nursing assistance, and the efficiency of the outpatient department.

The number of institutions coming under the heading of public hospitals for the year ended 31 March 1953 was 185, comprising 77 general hospitals (6 of which were also old people's homes, and 2 special hospitals), 2 non-acute hospitals, 3 convalescent hospitals, 94 maternity hospitals, 6 tuberculosis sanatoria, 1 tuberculosis prevention institution, 1 chronic tuberculosis hospital, and 1 tuberculosis dispensary. A comparison of beds and patients is as follows.

	1948-49	1949-50	1950-51	1951-52	1952-53
Number of institutions	176	182	184	187	185
Number of beds—					
General	8,346	8,361	8,566	10,738	10,765
Children's cots	1,713	1,685	1,746		
Maternity	1,716	1,770	1,825	1,895	1,937

* Now included under "General".

† In addition, dental cases treated during the year and attendances were: Auckland, 2,178, 9,711; Wellington, 16,835, 22,607; Lower Hutt, 7,754, 14,981; Christchurch, 3,909, 17,872; and Timaru, 590, 1,734.

Age, in Years	Males	Females	Totals
90 and over	8	9	17
Unknown	22	21	43
Totals	4,797	4,648	9,445

Probably symptomatic to some extent of the ageing of the New Zealand population, the number of patients aged sixty years or over has attained a high proportion of admissions during recent years. Of those remaining in mental hospitals at the end of 1952, patients in this age group numbered 2,710—i.e., 28.7 per cent of the total.

DISCHARGES AND DEATHS.—The next table gives the average number resident, those who were discharged as recovered, and those who died, during the period 1948–52.

Year	Average Number Resident	Discharged as Recovered		Died	
		Number	Percentage of Number Admitted	Number	Percentage of Average Number Resident
1948		8,145	535	37,36	553
1949		8,287	511	34,48	549
1950		8,384	558	36,64	616
1951		8,507	583	36,59	635
1952		8,584	609	34,66	752
Average of five years		8,381	559	35,95	621
				7,40	

The recovery rate has been satisfactorily maintained, particularly when it is considered that approximately 20 per cent of admissions suffer from senility and a further 10 per cent suffer from congenital conditions.

The table following shows the duration of residence in mental hospitals of patients who died and of patients who were discharged as recovered during the year 1952. Of those discharged as recovered, 58 per cent had been inmates for less than one year.

Duration of Residence	Patients Who Died		Patients Discharged as Recovered		
	Males	Females	Males	Females	Totals
Under 1 month	60	40	100	10	28
1 month and under 3 months	38	34	72	58	69
3 months and under 6 months	32	37	69	53	47
6 months and under 9 months	21	21	42	27	29
9 months and under 12 months	10	20	30	14	16
1 year and under 2 years	33	43	76	45	101
2 years and under 3 years	12	21	33	21	30
3 years and under 5 years	31	36	67	10	19
5 years and under 7 years	20	28	48	1	5
7 years and under 10 years	19	14	33	6	7
10 years and under 12 years	5	6	11	1	3
12 years and under 15 years	9	8	17	3	4
15 years and over	69	43	112	1	1
Died during absence	29	13	42		
Totals	388	364	752	250	359
					609

Old age and diseases of the circulatory and respiratory systems are the principal causes of death among mental hospital patients. The figures for the principal causes and groups of causes for the years 1951 and 1952 are as follows.

Cause	1951	1952
Tuberculosis	12	7
Cancer	16	20
Other general diseases	15	18
General paralysis of the insane	4	3
Epilepsy	14	24
Other diseases of the nervous system	64	67
Diseases of the circulatory system	236	235
Diseases of the respiratory system	137	129
Diseases of the digestive system	3	
Diseases of the genito-urinary system	11	19
Old age	79	175
External causes	7	12
Died during absence	37	43
Totals	635	752

PRIVATE MENTAL HOSPITAL.—A licence may be granted to enable a private mental hospital to receive patients for treatment. Stringent conditions are attached to the issue of such a licence, which may be revoked at any time. The Director of the Mental Hygiene Division of the Health Department has wide powers in the regulation and control of private institutions, which are placed practically on the same footing as public mental hospitals in regard to inspection and other matters.

There is only one licensed private mental institution in New Zealand, that at Wakari (Ashburn Hall), near Dunedin, established in 1882. Particulars for the last five years of admissions, discharges, deaths, and patients remaining, are as follows. These figures are included in preceding tables.

Year	Admissions (Including Transfers)	Discharges (Including Transfers)	Deaths	Patients Remaining at End of Year
1948	10	15	4	29
1949	15	10	4	30
1950	11	9	2	30
1951	17	14	3	30
1952	16	18		28

MAORIS IN MENTAL HOSPITALS.—The number of Maoris admitted as patients to mental hospitals is small. The figures for the last five years were as follows.

Year	Admitted During Year			Remaining at End of Year		
	Males	Females	Totals	Males	Females	Totals
1948	26	27	53	125	104	229
1949	23	24	47	128	104	232
1950	24	19	43	134	115	249
1951	46	40	86	133	107	240
1952	42	37	79	157	123	280

The above figures are also included in the tables covering all inmates of mental hospitals.

The number of Maoris remaining in mental hospitals at the end of 1952 represented a rate of only 23.29 per 10,000 of the mean Maori population, as compared with a rate of 47.32 in the case of the European population.

VOLUNTARY PATIENTS.—A person labouring under mental defect, but capable of understanding the meaning of the procedure, may seek admission to a mental hospital as a voluntary boarder. At the beginning of 1952 there were 468 such patients on the books (201 males, 267 females), and during the year 1,127 (517 males, 610 females) were admitted. If a voluntary boarder should after admission show mental defect sufficiently pronounced and

sustained to render it improper to classify him any longer as such, application for a reception order is made to a Magistrate. During the year 1952, 6 (3 males, 3 females) were transferred from the voluntary to the ordinary register, and 20 males and 19 females died, while 1,023 (466 males, 557 females) were discharged, leaving 525 (231 males, 294 females) on the records at the end of the year.

A feature of interest has been the tendency for voluntary admissions to increase, both in absolute numbers and also in proportion to total first admissions. The following series illustrates this trend.

—	Voluntary Patients First Admissions		—	Voluntary Patients First Admissions	
	Numbers	Percentage of All First Admissions		Numbers	Percentage of All First Admissions
1915	32	4.7	1947	534	30.6
1920	64	8.1	1948	578	33.8
1925	123	14.1	1949	576	33.4
1930	236	20.2	1950	595	33.1
1935	217	19.2	1951	653	33.7
1940	252	21.5	1952	771	35.2
1945	359	24.3			

EXPENDITURE, ETC.—The total expenditure on maintenance of public mental hospitals (not including the cost of new buildings and additions) and particulars of receipts during the last eleven financial years are shown in the next table. As from 1 April 1939 free maintenance and treatment have been provided in all public mental hospitals in accordance with the provisions of the Social Security Act 1938. The consequent loss of revenue through the operation of the Act was recoverable from the Social Security Fund, but as from 1 April 1945 such recoveries ceased, and from that date all maintenance expenditure has been borne by the Consolidated Fund. The amounts shown as receipts on account of patients' fees for the years subsequent to 1939–40 represent in part the recovery of accounts outstanding at 31 March 1939. The Mental Defectives Amendment Act 1950 provides that the cost of maintenance of any person who is not ordinarily resident in New Zealand and who is detained in any public institution shall be a debt due to the Crown. These provisions have been effective on and after 23 November 1950.

Year Ended 31 March	Total Expenditure	Receipts		Net Expenditure	Gross Average Cost per Patient		
		Patients' Fees	Sale of Produce, etc.		Social Security Fund	£	s.
	£	£	£	£			
1943	738,204	13,030	181,869	474,435	92	12	5
1944	766,530	13,218	183,199	503,915	95	4	2
1945	827,128	8,207	67,433	563,546	100	6	1
1946	940,167	5,859	70,500	863,808	113	8	2
1947	1,072,130	8,228	87,065	976,837	128	10	2
1948	1,243,332	8,958	88,397	1,145,977	147	12	3
1949	1,476,768	7,993	38,427	1,430,348	173	13	11
1950	1,766,659	1,602	177,152	1,587,905	203	0	0
1951	1,810,285	2,956	125,771	1,681,558	206	2	0
1952	2,288,589	4,983	138,465	2,145,141	257	6	0
1953	2,446,344	1,849	55,210	2,389,285	272	2	0

In the period covered by the foregoing table total expenditure increased by £1,708,140, or 231 per cent, while the gross average cost per patient rose by £179 9s. 7d. per annum, or 194 per cent.

As already stated the expenditure included in the foregoing table does not include amounts spent on new buildings, additions, etc., the cost of which is met by the Ministry of Works. The sums spent in this connection fell away considerably in the later war years. Expenditure for the last three financial years, however, has amounted to £234,085 in 1950–51, £259,289 in 1951–52, and £382,647 in 1952–53, while the aggregate expenditure from 1 July 1877 to 31 March 1953 was £4,767,184.

Chapter 6. SECTION 6—EDUCATION

Table of Contents

HISTORY AND ADMINISTRATION.—The education system of New Zealand can be understood only when it is seen against its historical background. The first settlements in the new colony were relatively isolated units each of which had to make its own provision for the education of its children. In some places the provision of schools was left to the churches, in some to private enterprise, and in others to public associations. When the provinces were established in 1852 the Provincial Councils took over education as one of their functions, but this brought no degree of uniformity to New Zealand schools, for each province tended to foster the type of school organization already established in its area. The provinces varied considerably in the efficiency of their school systems; but, in spite of some success in the face of difficulties in certain areas, at the end of the provincial period in 1876 not more than half the children between the ages of five and fifteen were attending school at all.

The present national system of free, secular, and compulsory education is based on the Education Act of 1877. This Act followed upon the abolition of the provinces, but the provinces, though dead as political units, left their mark upon the school system. A fierce struggle between the protagonists of central and of local control ended in a victory for the provincialists, and the public schools were placed under the control of District Education Boards, which were for the most part the same bodies as the old Provincial Education Boards. The Colonial Government, however, had to provide all the finance in the form of capitation grants, and a small Department of Education was set up in Wellington, very largely for the purpose of distributing the grants. For every school district constituted under the Act there was a School Committee, elected by householders, which, subject to the control of the Board, had "the management of educational matters within the school district." The School Committees elected the members of the Education Board.

As far as mere structure is concerned, this still remains the pattern of the system of school administration in New Zealand, but there have been, in the intervening years, great changes in the relative functions of the three authorities. The general tendency has been for final power and responsibility to shift from the Committees to the Boards and from the Boards to the Department. The Committees, in fact, through lack of professional executive officers and independent sources of revenue, from the very beginning were unable to take over the full powers that the 1877 Act obviously intended them to have, and for the first twenty years of national education the Education Boards were the predominant authorities in the system.

The former number of nine Education Boards was increased by one in 1952, when the Auckland Education Board, comprising more than one-third of all schools, was subdivided and a new South Auckland Education Board formed from portion of the area.

From just before the beginning of this century the Education Department began to play an increasingly important part in educational administration, partly as a result of improved means of communication. Under the Act of 1877 the Boards had been given wide powers: to administer funds from endowments and departmental grants, to appoint and remove teachers, to pay teachers' salaries according to their own scales, to establish scholarships and provide for secondary education in district high schools, and to control the inspectorate. Legislation, beginning with the establishment of a national scale of primary school salaries and staffing in 1901 and culminating in the Education Act of 1914 (still the basic measure under which the education system is administered), concentrated these powers more and more in the hands of the Department, which began to take a more detailed interest in expenditure by the Boards. The original freedom of the Boards in the expenditure of building grants was taken away, and the present system, requiring special departmental authorization for each new building, gradually became established. From 1901 onwards the Department paid over to the Boards the exact sum required for teachers' salaries, thus leaving a much-reduced capitation grant to be used by the local authorities at their own discretion. In 1914 the Department took over the control of the primary-school inspectorate.

The centralization of the inspectorate made possible a further change affecting the powers of the Boards. In 1920 a New Zealand grading scheme was instituted under which all primary-school teachers were annually awarded grading marks by the Inspectors. A teacher's total marks give him a place on a numerically graded list. Since all ordinary appointments are decided on the basis of this list, the system of appointment is in effect a national one, and the Boards have very limited powers of discretion although they make the appointments and the teachers are servants of the Boards. In 1940 biennial grading was substituted for annual grading, thus freeing the inspectors of schools in alternate years to give more time to schools. The provision of an annual grading number for teachers was, however, retained.

* Every child (with certain statutory exemptions) between the ages of seven and fifteen years has to be enrolled as a pupil of either a public or a registered school.

It does not follow, however, since the Boards and the School Committees have lost many of their original powers, that they have ceased to play an important part in the system. The Committee's primary function is the care of school buildings, grounds, and equipment, but, in addition to this, many interest themselves very keenly in the general activities of the school and provide in each district a focusing point for local opinion on educational matters. The Education Boards are still the initiating bodies on matters of buildings, sites, conveyance of pupils, consolidation, and provision of school facilities generally; and, although the final word often lies with the Minister of Education or the Department, the Boards have no small influence in the fixing of policy within their districts. The schools are legally their schools and the teachers their teachers, and, although in general the Boards' choices of applicants are limited by the grading system, they have much more discretion in the selection of applicants for special or key positions. The teachers' class-room activities are under the control of the Inspectors, but their general responsibility is to the Boards, and their professional life tends to centre on the Boards rather than on the Department. In spite of the apparent clumsiness of the administrative structure and of periods of strong feeling in the past, the system at present functions remarkably smoothly, and has achieved a balance, workable if not ideal, between the claims of local initiative and national efficiency. A certain degree of decentralization was achieved in 1948 when a branch of the Education Department was established at Auckland.

Post-primary education, with the exception of that given in the district high schools, was not brought by the Act of 1877 within the province of the Education Boards. Several secondary schools had been established in various ways before 1877, and these continued under their own Boards of Governors, which were in no way related to the Education Boards. The Education Reserves Act 1877 set aside one-fourth of the educational reserves for secondary education vesting the remainder in the Education Boards for primary-school purposes. This there was introduced into the colony that cleavage between elementary and secondary education that was characteristic of the English system. In the years immediately following the Act of 1877 a series of Acts set up a number of local High School Boards, each in control of its own land endowments. No effective provision was made for the inspection of these schools by any outside authority or for the co-ordination of their work with any other part of the school system.

Further secondary schools, and, from 1902 onwards, technical high schools, were from time to time established. Before 1901 fees had been charged even in district high schools. In that year free places were instituted in district high schools, and in 1902 secondary schools were offered special capitation grants if they would provide free places for deserving scholars. Under the Education Act of 1908 free places at the technical schools were granted on a more liberal basis, and by 1914 all State post-primary schools were obliged to give free places for two years at least to any pupil who had passed the Proficiency Examination. In 1936 the Proficiency Examination was abolished and free post-primary education to the end of the year in which he reached nineteen years of age became available to every child completing a primary-school course or on attaining fourteen years of age.

A direct effect of this movement towards free post-primary education was that the Department began to exercise an increasing degree of control over the schools. The Education Amendment Act 1920 authorized the establishment of New Zealand staffing and salary scales for post-primary schools, and instituted the system—already operative in the case of the Education Boards—of paying over to the schools the exact sum required for salaries plus a capitation grant for incidental expenses, less the amount received from local secondary-school endowments. This, in effect, nationalized these endowments, and spread more evenly the benefits resulting from the foresight of the early settlers. As from 1 April 1949 all revenue received by the schools was handed over to the Crown and the total costs of salaries and incidental expenses met from the Consolidated Fund. The endowment reserves themselves were vested in the Crown as from the beginning of 1950.

THE SCHOOL SYSTEM.—Perhaps the best method of sketching the outline of the school system as it now stands is to trace the career of a child as he passes through the system. He may at the age of three enter a Tree kindergarten under the control of the Free Kindergarten Association. At the age of five he may enter, and at seven he must enter, either a primary school under one of the ten Education Boards, or a registered private primary school, or, if living in an isolated area or physically handicapped, the primary department of the Education Department's Correspondence School. All state primary schools are co-educational. The child passes through the infant classes and Standards 1, 2, 3, and 4. This normally takes six years. The remaining two years of the primary course will be taken either in Form I and II at the same primary school, or, if there is one conveniently situated, at an intermediate school. The intermediate school is comparatively recent development within the primary school system, the first of these schools being established in 1922. It is a centrally situated school which pupils enter from the surrounding primary schools (called in these circumstances "contributing schools") after they have completed the primary-school course as far as Standard 4. Because the intermediate school comprises a fairly large number of pupils (usually between 300 and 600) who are mainly between the ages of eleven and thirteen years it is possible to classify them into groups of approximately equal ability, provide a good range of optional courses, and utilize specialist teachers and advanced equipment to the full. As at this point in his school career the pupil's social and intellectual interests have developed, he is ready to take full advantage of the varied and enriched courses provided. Where the number of pupils in an area is not sufficient to justify the establishment of a separate intermediate school an intermediate department may be attached to the local post-primary school, and thus utilize the special facilities available at the senior school. In some intermediate schools a third course (Form III) is provided to give a rounded-off education to pupils who do not intend to proceed to a post-primary school.

On satisfying the requirements of his headmaster in Form II the child is granted a Primary School Certificate, on the receipt of which, or on reaching the age of fourteen, he becomes entitled to free post-primary education until the age of nineteen is reached. The Education Amendment Act 1920 made provision for the raising of the school-leaving age from fourteen to fifteen years, but this change was not brought into operation until February 1944, and all children are now required to attend school until the new leaving age is reached. This means, in effect, that some period of secondary education is now compulsory for nearly all children. The only provision for exemption is inability to profit from the further period of education.

When a country child leaves the primary stage he may have no alternative but to enter Form III of a district high school (which is really a secondary top to a primary school and is under the same control), or enrol in the Correspondence School. In more thickly populated areas there will be either a secondary school or a technical high school available. In some towns a secondary school and a technical high school have been amalgamated to form a combined school. To those not understanding the peculiar character of the New Zealand technical high school this may seem a strange union, but the differences between schools of the two types are, except in the larger centres, relatively slight. The difference was further obscured when after 1944 secondary schools catered increasingly not only for "academic" pupils, but for those who as well who specialized after two years' core work in the more practical subjects (technical, agricultural, domestic, commercial). A number of secondary departments of district high schools that had grown very large were made separate post-primary schools. The result of these developments was that post-primary schools are now all more or less multilateral.

The School Certificate Examination conducted by the Education Department is now regarded as the accepted test of a completed post-primary education for the great bulk of the pupils who do not desire to proceed to University. The School Certificate Examination is taken at the end of the third or fourth year of the post-primary course. It offers a choice among some thirty subjects besides English, which is compulsory. The School Certificate is awarded to pupils who pass the examination and, in other respects, have complied with the regulations governing the award of the certificate.

Provision is contained in the Education (Post-primary Instruction) Regulations 1945 for endorsement of School Certificates on satisfactory completion of an advanced course of instruction for one year. The regulations also provide for the award of Higher School Certificates. In general this certificate is awarded after a five years' course to pupils who have been awarded a School Certificate and satisfactorily complete an advanced course of two years; and to pupils who have been accredited for or have passed the University Entrance Examination and satisfactorily complete an advanced course of one year.

The technical schools, combined schools, and a few of the secondary schools run evening classes, particularly in practical and vocational subjects, which an adolescent may attend after he leaves full-time day school. Apprentices in some trades are required to attend evening classes as part of their trade training. In 1948 approval was given to the establishment of evening classes for apprentices in civil engineering, plumbing, and baking were commenced in 1949. In some of the larger technical schools part-time students may take professional courses in engineering, architecture, accountancy, pharmacy, etc.

Prior to 1944 all pupils desiring to undertake a University course were required to sit and pass the University Entrance Examination conducted by the University of New Zealand. In 1944 a system of partial accrediting came into operation. Under this system pupils attending certain approved schools may be accredited for matriculation purposes provided they have completed a four years' post-primary-school course. The University Entrance Examination is still conducted by the University of New Zealand, and pupils not accredited for entrance to University may qualify in this manner. The standard of the present entrance examination is somewhat higher than that maintained prior to the introduction of the accrediting system.

Pupils who have been accredited for, or who have passed the University Entrance Examination, may, without further post-primary education, receive tuition fees for a period of four years at a University college.

The University of New Zealand, whose controlling body is the University Senate, is constituted of the University colleges of Auckland, Wellington, and Canterbury, and the University of Otago (which does not itself grant degrees). Massey and Canterbury Agricultural Colleges, associated with the University of New Zealand, are open to students specializing in agricultural studies.

The five teachers' training colleges, although they work in conjunction with the four University colleges, are organically related to them only through their Boards of Studies. The Education Boards in the four main centres are the controlling authorities of the training colleges.

The State system also caters for the needs of certain special groups of children. Maori children may attend the primary schools, but there are also public Maori village schools provided for their primary education. There are also a few private mission schools remaining from the pre-Maori War system established with the help of Government subsidies. For his post-primary education the Maori child may go free to any available public post-primary school or Maori district high school. If he lives in a remote area he may gain a Maori scholarship awarded by the Education Department which will enable him to attend a denominational Maori secondary school. These are boarding schools of which five are for boys and five for girls. Some of them are partly financed out of public endowments originally provided for the purpose of Maori education.

As mentioned earlier, children living in isolated areas or prevented in other ways from attending school may be enrolled in the Correspondence School for both primary and post-primary work.

For children who are mentally, emotionally, or physically handicapped there are provided special schools and classes. The mentally handicapped are grouped in special classes, and a person is enrolled in two residential special schools. For children who are very backward there are special centres (occupation centres) in the four main cities, and a number of voluntary groups (occupational groups) which are given financial assistance by the Education Department have been formed in several smaller towns. Two residential schools cater for the needs of the deaf and those near-deaf children who cannot profit from teaching in an ordinary primary school. Children with speech defects attend regularly one of the speech clinics. More recently separate classes have been established for children with very poor eyesight (sight-saving classes), and several schools have been organized as separate units for cerebral palsied children. Where a sufficient number of children in hospital justifies it, teachers are made available to conduct hospital classes which are attached to the local school. Finally, there are three special schools and homes to take care of children with the most serious and deep-seated problems of maladjustment or delinquency. These last-named institutions, the schools for the deaf, and the two special schools for the mentally backward are being administered for the Education Department by the Child Welfare Division, which, in educational matters, is under the control of the Minister of Education. All other special classes and centres are controlled by the Education Boards. The Boards also employ Visiting Teachers whose task it is to help problem children by acting as a link between the school, the home, and the community. The Education Department has a small psychological division which includes two psychologists, one assistant psychologist, and four area organizers of special classes, all of whom are available for psychological and educational testing of children with special problems.

In addition to the various State schools described, a parent may send his child to a private school, either primary or secondary, conducted by either religious bodies or private individuals. No Government free place is tenable at these schools, but a Secondary School Bursary (referred to on page 161) may be tenable at a private school, while assistance for transport by rail and road and a boarding allowance under certain conditions may also be given to pupils attending private schools, whether primary or post-primary. All private schools must be registered, and are subject to an annual inspection by the Department's Inspectors. The majority of the private schools are conducted by the Roman Catholic Church. Amongst the private schools are two endowed secondary schools modelled after the English public school.

* Except for Maori "Government pupils" in the denominational secondary schools.

To complete the above sketch it should be added that co-education exists in all stages of the system. At the primary stage, public, intermediate, and Maori schools and some private schools teach boys and girls together. At the teachers' training colleges and the University colleges, students of both sexes attend together. At the post-primary level all district high schools and technical colleges have both boys and girls on their rolls, whilst just over two-thirds of the secondary and combined schools and all private secondary schools are single-sex schools. A comparison of the total enrolment at all post-primary schools (State as well as private) in 1952 with that sixteen years earlier shows that the ratio of single-sex to co-educational schools has changed from 54 to 46 in 1936 to 46 to 54 in 1952, whilst during that period the total number of pupils has almost doubled.

SCHOLARS AND STUDENTS.—The number of scholars and students receiving instruction in the educational institutions of New Zealand is shown in the following summary. The table refers to roll numbers as at the end of the year (except in the case of technical classes, which are as at 1 July).

Class of Institution	1948	1949	1950	1951	1952
<i>Preschool Education*</i>					
Kindergartens	3,462	3,894	4,398	4,906	5,271
<i>Primary Education</i>					
Public (State) schools	233,008	241,742	254,266	267,273	284,784
Intermediate schools and departments					
Maori village schools	13,254	13,288	13,426	13,663	14,076
Maori mission schools	744	805	826	822	790
Registered private primary schools	32,616	34,155	35,922	37,690	39,654
Lower departments of secondary schools	199	187	172	160	150
Correspondence classes (primary)	1,284	1,449	1,673	1,673	1,596
Chatham Islands schools	97	109	95	108	106
Totals, primary	281,702	292,035	306,380	321,389	341,156

* Pupils on roll at end of year.

† There were also 1,227 students taking part-time courses.

‡ Part-time students, excluding 1,420 part-time students (1,337 in 1951) enrolled with the Technical Correspondence School.

§ Includes 614 students taking short courses at the agricultural colleges in 1952.

Class of Institution	1948	1949	1950	1951	1952
<i>Post-primary Education</i>					
Secondary schools	17,972	18,400	19,352	20,341	21,872
Combined schools	3,401	3,510	3,472	3,579	3,813
Secondary departments of district high schools	6,895	7,320	6,992	7,195	7,946
Technical high schools	12,136	12,504	13,859	14,871	16,179
Maori secondary (boarding) schools	668	777	813	863	871
Registered private and endowed secondary schools	8,827	9,112	9,341	9,791	10,413
Correspondence classes (secondary)	601	533	494	457	435 [†]
Totals, post-primary	50,500	52,156	54,323	57,097	61,529
<i>Technical Classes(excluding Technical High Schools and Technical Day Schools)</i>					
Conducted by Education, Secondary School, or High School Boards	7,745	8,120	8,467	8,538	9,600
Conducted by Technical School Boards	12,262	12,844	12,708	14,312	16,659
Conducted by University colleges	298	262			
Totals, technical [‡]	20,305	21,226	21,175	22,850	26,349
<i>Higher Education</i>					
University colleges	9,906	9,682	9,809	9,466	9,323
Canterbury and Massey Agricultural Colleges	1,421	1,076	1,014	1,218	1,042 [‡]
Students exempt from lectures	1,514	1,362	1,182	1,007	940
Teachers' training colleges	1,875	2,321	2,684	2,704	2,710
Totals, higher	14,716	14,441	14,689	14,395	14,015
Totals, scholars and students	370,685	383,752	400,965	420,637	448,320
* Pupils on roll at end of year.					
† There were also 1,227 students taking part-time courses.					
‡ Part-time students, excluding 1,420 part-time students (1,337 in 1951) enrolled with the Technical Correspondence School.					
§ Includes 614 students taking short courses at the agricultural colleges in 1952.					

The preceding table of enrolments shows that there have been steady increases of between 12,000 and 27,000 pupils and students in each of the last five years. These figures illustrate for this short period of five years what a significant expansion is taking place in the whole educational system. Between 1930 and 1944 primary-school rolls had remained almost stationary year after year, but they increased in 1945 by 5,000, in 1946 by 6,000, and in the following six years (1946 to 1952) by a total of 77,000. These enrolment increases were so marked that the Education Department and Education Boards began several years ago to pay urgent attention to the population changes that caused the expansion, which in turn was calling for proportionate increases in the supply of teachers and in the provision of classrooms, of teaching equipment, and other facilities such as transport. Even a short account of this expansion must stress the relevant change in the age composition of the population, and then illustrate its impact at the various levels of the school system.

The expansion was in the first instance due to the increase in the yearly number of births. This rose from some 28,000 in 1936 to almost 50,000 in 1947, remained nearly at that level from 1948 to 1951, and rose to nearly 52,000 in 1952.

A comparison between the Census years of 1936 and 1951 shows that in 1936 all children of age 0 to under 15 years represented 26.5 per cent of the total population, but fifteen years later, in 1951, the proportion was 29.7 per cent, whilst the total population had increased to 1,940,000, or by just over 23 per cent; the 23 per cent increase of total population compares with an increase of the child population alone of 38 per cent. The change in the age groups of school age is shown in more detail in the following table.

Age Group, in Years	1936	1951	Increase		Decrease	
			Number	Per Cent	Number	Per Cent
5 and under 10	140,990	183,800	42,810	30		
10 and under 14	115,670	127,400	11,730	10		
14 and under 18	113,430	105,800			7,630	7
Totals, 5 and under 18	370,090	417,000	46,910	13		

A special feature has been the increase during the same period in the Maori juvenile population. The increase in the Maori birth rate had begun earlier and coincided with a marked reduction in the Maori infant death rate. The corresponding figures for the Maori population are as follows.

Age Group, in Years	1936	1951	Increase	
			Number	Per Cent
5 and under 10	12,605	16,000	3,395	27
10 and under 14	8,380	12,200	3,820	45
14 and under 18	6,640	10,600	3,960	60
Totals, 5 and under 18	27,625	38,800	11,175	40

The school enrolment increases were first felt in the premier classes (4,000 in 1944–45, 6,500 in 1945–46, 6,300 in 1946–47), then in the lower standards. They gradually spread to the upper primary classes, and are now reaching the post-primary schools. The increase in the total number of children enrolled between 1945 and 1951 was 37 per cent in Standard 2, 31 per cent in Standard 3, but only 13 per cent in Form II.

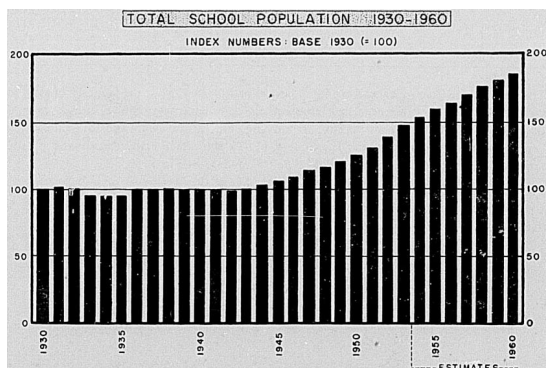
It has been estimated that rolls will continue to expand until at least the early 1960's, when the total school population will have increased by some 220,000 over and above the 1936 enrolment of approximately 280,000 full-time pupils at all public and private schools.

Concurrently with the recent rise in roll numbers due to the increasing child population, a further expansion of the education system took place at the post-primary level. The number of post-primary school pupils declined for a time during the earlier war years, but increased by 3,000 in 1943, and a further 6,000 in 1944. These increases were due to the raising of the school leaving age to 15 years, a measure which took effect at a moment when three-quarters of those in the age group 14 to 15 were attending school. The proportion had gradually increased to that figure in the preceding eight years. The proportion of primary school children entering upon a post-primary course has undergone considerable changes. While it was approximately 10 per cent at the beginning of the century, it had risen to 45 per cent at the end of the First World War and to 65 per cent before the Second World War. By 1952 the figure was 90 per cent. At the same time as the more recent increase from 65 to 90 per cent of the number of primary school children proceeding to post-primary schools took place, the average length of time spent at post-primary schools showed an increase. In 1936, approximately one-quarter of all pupils entering post-primary schools reached either Form V (Upper) or Form VI (Lower), the normal goal of a four-year course; by 1952 this figure had increased to approximately one-third of all entrants.

The changes in enrolment due to the varying size of the age groups of school age, and to the extended schooling were accompanied by changes in the yearly number of school leavers entering occupations. The following table shows a decline in the total number of school leavers to a low point in 1948, some recovery in the following year, with approximately stable numbers in the last three years. At the same time, the proportion of school leavers entering upon their working life direct from a primary or intermediate school, without any full-time attendance at a post-primary school, has markedly declined. The following figures refer to pupils leaving public primary and intermediate schools who did not enter post-primary schools, and to post-primary school leavers who did not enter University, but exclude pupils from Maori schools and private schools.

Year	Number Leaving	Percentage From Primary Schools
1936	22,994	42
1941	21,014	36
1946	18,902	16
1948	18,080	15
1949	19,337	13
1950	19,586	12
1951	19,964	11
1952	19,947	10

The development since 1930 of the total enrolment at all public and private primary and post-primary schools (full-time pupils) is illustrated by the diagram below, which gives for the years 1953 to 1960 estimated rolls based on the probable increases in the school age population.



The number of part-time students attending day or evening classes also shows a steady increase in recent years. The total increase between 1947 and 1952 was 7,999, or 37 per cent. An important factor in this increase is the development of apprentices training. The attendance at day classes for apprentices more than doubled in the last two years (1950, 1,492, 1952, 3,363), and the availability of training has been extended to several further trades. As the major trades (except printing) in which there are apprentices are now covered by day or evening classes, it is to be expected that developments will be in the nature of consolidation rather than of extension.

The enrolment at University colleges which reached a total of 11,305 in 1952 has nearly doubled since 1939. The enrolment figures in the immediate post-war years were still higher, as they included a number of ex-servicemen students. From about 1956 onwards the age groups born after the depression years will reach the institutions of higher education, and these will from then on have to be ready to accommodate increasing numbers of students. The intake at the five teachers' training colleges was increased from 1948, when the fifth college was increased from 1,050, in order to meet the expected higher demand for certificated teachers. The total rolls at the training colleges were 1,875 in 1948, 2,321 in 1949, 2,684 in 1950, 2,704 in 1951, and 2,710 in 1952.

ANNUAL EXAMINATIONS.—The number of candidates who actually presented themselves for the various examinations conducted by the Education Department and also by the Trades Certification Board during the last five years is given below.

Examination	1948	1949	1950	1951	1952
Teachers' Certificate	260	257	279	308	256
School Certificate	8,592	9,352	9,479	9,763	10,468
Special Bursaries	263	260	296	337	350
London University	6	6	5	6	6
Handicraft Teachers' Certificate	34	37	28	40	45
Homework Teachers' Certificate	65	67	32	41	49
Technological	309	224	167	117	112
City and Guilds of London	107	68	84	124	118
Samoan Public Service					43
Engineers' and Surveyors' Assistants					26
Totals	9,636	10,271	10,370	10,736	11,473
Trades Certification	1,350	1,978	2,518	3,234	

The University of New Zealand conducted examinations in 1952 in the faculties of arts, science, medicine, dentistry, home science, law, engineering, commerce, agriculture, music, architecture, and divinity; for diplomas in journalism, in banking, and in fine arts; and for admission to the legal and accountancy professions. There were 11,416 entrants for the degree and professional examinations in 1952, compared with 12,027 in 1951 and 13,813 in 1950.

The number of entries for the University Entrance Examination in 1943 was 5,152, but the introduction of the accrediting system in 1944 saw the number in that year reduced to 543. Comparative figures for the last five years are given in the following table.

Candidates	Accredited	By Examination
1948	1,572	1,839
1949	1,954	1,874
1950	1,987	1,766
1951	2,005	1,777
1952	2,055	1,944

PUBLIC EXPENDITURE ON EDUCATION.—The following table shows the expenditure (after recoveries have been deducted) from public funds on each branch or service of education for the three years ended 31 March 1953.

	Expenditure Year Ended 31 March		
	1951	1952	1953
Expenditure from vote, Education—	£	£	£
General	1,331,131	1,624,569	1,765,930
Buildings, land, furniture, and equipment	1,565,648	2,011,166	2,930,202
Primary education	5,145,548	6,166,866	6,720,514
Post-primary education	2,276,896	2,645,207	2,991,839
Higher education	991,556	1,168,006	1,266,167
Training of teachers	880,500	950,149	1,002,637
Maori schools	311,969	347,662	370,339
Education of the blind	28,733	30,269	44,304
Special schools	87,957	106,754	126,255
Child welfare	369,417	412,063	420,395
Miscellaneous grants	117,666	149,863	162,167
National Library Service	132,015	154,465	149,024
Totals, vote Education	13,239,036	15,767,039	17,949,773
Expenditure from other sources—			
Vote, Education Buildings	1,821,128	1,885,033	3,388,350
Revenue from reserves vested in post-primary schools — period, 1 April 1949 to 31 December 1949	29,963 C _r	3,510 C _r	
Grand totals	15,030,201	17,648,562	21,338,123

The foregoing figures do not include revenue received by University colleges from endowments, fees, etc., which are available for educational purposes. By the Land Act 1948 all education reserves were declared Crown land, and the revenues received as from 1 April 1949 were paid into the Land Settlement Account. The reserves vested in post-primary schools were also declared by the Education Lands Act 1949 to be Crown land subject to the Land Act 1948.

The following figures show the cost of education during the period 1942-43 to 1952-53.

Year Ended 31 March	Expenditure from Public Funds	Expenditure Per Head of Mean Population
	£	£
1943	5,038,395	4
1944	5,221,389	3
1945	6,216,947	3
1946	7,853,049	4
1947	8,711,637	4
1948	9,950,818	5
1949	11,023,016	5
1950	13,744,960	7
1951	15,030,201	7
1952	17,648,562	9
1953	21,338,123	10

Education Buildings.—The increases in school population have led to an expansion of the school-building programme. The following numbers of classrooms were completed in recent years:

	Primary	Post-primary
1948	236	51
1949	336	63
1950	517	115
1951	476	141
1952	589	198

Pre-school Education.—Children below the age of five are not enrolled in the State primary schools. They may be enrolled, however, at free kindergartens controlled by local Free Kindergarten Associations. In 1947 a Supervisor of Pre-school Services was appointed to the Department of Education. In 1948 the Department undertook the payment of the salaries of kindergarten teachers, trainees, and full-time teachers at training centres, and the system of payment of capitation grants to the local Associations was discontinued. Subsidies on voluntary contributions raised for the purchase of land, erection of buildings, and purchase of initial equipment are paid by the Department. The number of trainees in 1952 was 152.

At the end of 1952 there were 5,271 children on the rolls of 137 free kindergartens. In 1951 the corresponding figures were 4,906 and 127 respectively. As yet the system is far from universal, although, besides those enumerated, there are also some private kindergartens and 71 Nursery Play Centres.

Nursery play centres which meet a required standard in equipment receive a small subsidy from the Government.

PRIMARY SCHOOLS.—The primary-school system at the end of 1952 consisted of 1,889 public schools (including district high schools and intermediate schools or departments), 162 Maori village schools, 306 registered private primary schools (which included 10 Maori mission schools), and 4 lower departments of secondary schools. There were also 137 free kindergarten schools.

Lower departments of secondary schools may be run for pupils who have not passed Form II, provided that no part of the cost of instruction or of the maintenance of the department is met from public moneys. At the end of 1952 the total number of pupils in the four departments mentioned in the preceding paragraph was 150 with 5 teachers.

The curriculum of the primary school, as set out in the syllabus of instruction, includes English arithmetic, geography and history, arts and crafts (including needlework), nature study and elementary science, physical education (including swimming), moral instruction and health, and music. Teachers are advised on the teaching of nature study, physical education, and arts and crafts by itinerant specialists. At the Forms I and II levels woodwork and metalwork instruction is given to boys at manual-training centres, and girls are taught domestic subjects, including cookery and hygiene.

The syllabus as a whole has been revised in recent years. Textbooks in English and arithmetic are issued free to pupils in all schools, both State and private. A series of basic primer readers and a considerable amount of equipment for primer classes are also provided by the Government.

Public (State) Schools.—The figures tabulated below refer to pupils in public schools—i.e., all pupils in primary schools and intermediate schools and departments. Pupils in the secondary departments of district high schools are not included.

Year	Number of Schools (Including Intermediate Schools and Departments)	Pupils at End of Year	Mean of Average Weekly Roll	Average Attendance, Whole Year	Average Attendance as Percentage of Weekly Roll
1948	1,932	233,008	223,565	202,914	90.8
1949	1,905	241,742	231,913	207,199	89.3
1950	1,908	254,266	246,869	224,277	90.8
1951	1,885	267,273	255,268	231,616	90.7
1952	1,889	284,784	270,835	244,480	90.3

While the number of schools has declined, mainly owing to the consolidation of small rural schools, the total rolls have increased by 51,000 since 1948. The changes which have taken place in the size of schools may be seen from the following table.

Number of Public Schools	1942	1952	Increase (+) or Decrease (-)
Roll 70 and under	1,488	1,095	-393
Roll 71 to 350	451	515	+64
Roll 351 and over	176	279	+103
Totals	2,115	1,889	-226

In each of the education districts are located Inspectors of Primary Schools who form part of the staff of the Education Department. The total number of Primary-school Inspectors at 31 March 1953 was 52, allocate as follows: Auckland, 12; South Auckland, 7; Hawke's Bay, 4; Taranaki, 3; Wanganui, 3; Wellington, 7; Nelson, 2; Canterbury, 6; Otago, 6; Southland, 3. These figures exclude two Chief Inspectors and three Inspectors in the Head Office of the Department.

The following table relates to pupils on the rolls of the public primary schools and Forms I and II only of intermediate schools at 1 July in each of the years shown.

Age, in Years	1950: Total Pupils	1951: Total Pupils	1952			Percentage of Total Pupils		
			Boys	Girls	Total Pupils	1950	1951	1952
5 and under 6	29,837	32,045	19,690	18,672	38,562	12.4	12.7	14.3
6 and under 7	30,565	32,125	17,622	16,731	34,353	12.7	12.8	12.8
7 and under 8	26,613	30,651	16,806	15,832	32,638	11.0	12.2	12.1
8 and under 9	30,610	26,731	15,932	14,951	30,883	12.7	10.6	11.5
9 and under 10	30,582	30,388	13,679	12,976	26,655	12.7	12.1	9.9
10 and under 11	27,369	30,521	15,726	15,026	30,752	11.4	12.1	11.4
11 and under 12	24,365	27,520	15,730	14,716	30,446	10.1	10.9	11.3
12 and under 13	22,820	23,190	13,599	12,694	26,293	9.5	9.2	9.8
13 and under 14	12,644	12,820	7,194	5,603	12,797	5.2	5.1	4.8
14 and under 15	4,746	4,741	2,927	1,818	4,745	2.0	1.9	1.8
15 and under 16	791	683	382	229	611	0.3	0.3	0.2
16 and over	108	131	58	35	93		0.1	0.1
Totals	241,050	251,546	139,345	129,283	266,628	100.0	100.0	100.0

In 1952 a total of 19,870 pupils (10,668 boys and 9,802 girls) left public primary schools, as compared with 17,787 (9,013 boys and 8,774 girls) in 1951. Of those leaving in 1952, 18,488, or 93.0 per cent, had gained the Primary School Certificate. The effect of the raising of the school leaving age in 1944 is reflected in the numbers who proceeded to full-time post-primary schooling. Of those leaving in 1952, 91.5 per cent (boys, 89.4 per cent, girls, 93.6 per cent) went on to post-primary schools, as compared with 76 per cent (boys, 74 per cent, girls, 78 per cent) in 1943. Of the pupils who left intermediate schools and departments in 1952, 94 per cent went on to post-primary schools.

The next table gives the number of public primary schools in each education district as at 30 November 1952, classified according to roll numbers. The number of intermediate schools and departments is also shown.

Roll Numbers	Education District													
	Auckland	South Auckland	Taranaki	Wanganui	Hawke's Bay	Wellington	Nelson	Canterbury	Otago	Southland	Totals			
1-8			1	1	2	5	5	7	3	5	3	34		
9-24	31	43	21	55	53	45	18	87	34	36	423			
25-30	25	16	9	7	12	19	7	12	11	12	130			
31-70	80	90	41	40	32	33	18	87	42	45	508			
71-110	32	41	13	17	12	14	8	24	19	11	191			
111-150	23	22	7	9	13	11	2	15	9	8	119			
151-190	8	14	9	6	5	7	4	4	4	6	67			
191-230	11	11	2	3	3	5	3	4	4	2	48			
231-270	5	3	2	1	3	6	2	5	4	2	33			
271-310	4	1		3	2	4	3	6	2	1	26			
311-350	6		2	4	1	5		6	5	1	31			
351-390	9	5	2	1	7	6	2	5	2	3	42			
391-430	2	3	1	1	3	5	2	7	4		28			
431-470	4	1	1		4	5		6	2	1	24			
471-510	5	7	1	2	1	3		3	3	1	26			
511-550	11	1		3		5	2	3	4	1	30			
551-590	5	4	2	3	1	4		2			21			
591-630	3	2	2			3		2		2	14			
631-670	4	2				2		3			11			
671-710	5	4		2	1			1	1		15			
711-750	3	3	1					1			9			
751-790	4	1						2			7			
791-830	2							1			4			
831-870	1							1			2			
871-910	1	1		1				1			4			
911-950				1	1			1			4			
951-990								1			1			
Intermediate schools and departments	11	5		2	2	4	1	2	4	1	32			
Normal schools	2					1		1	1		5			
Totals	299	281	117	162	162	198	79	295	160	136	1,889			

Primary Schools for Maoris.—Over 60 per cent of the Maori children in New Zealand are educated in the public schools. At the end of 1952 there were 19,697 attending public schools out of a total of 32,627 Maori children receiving primary education in State schools.

The language of instruction in the Maori schools is English, but the schools are not completely English in outlook, for Maori arts and crafts, song, legend, and history are taught.

Methods of teaching are practical, and objectives closely related to the special needs of the Maori people. In many of the Maori schools, such equipment as woodwork rooms, cookery rooms, model cottages, baths, hot and cold showers, and laundries is supplied. Elementary agriculture and health education feature in every Maori school.

The number of pupils on the rolls of the 162 Maori village schools at the end of 1952 was 14,076 (including 1,146 European children), while the total roll number of the ten Maori mission schools was 790.

The following table gives the principal statistics of Maori village schools during the last five years.

Year	Number of Schools at End of Year	Roll at 1 July		Average Attendance, Whole Year	Average Attendance as Percentage of Weekly Roll	Number of Teachers	
		Maori	European			Males	Females
1948		159	11,989	1,037		11,385	
1949		160	11,951	1,089		11,488	
1950		159	11,905	1,064		11,643	
1951		159	11,858	1,126		11,439	
1952		162	12,195	1,152		11,560	
						84.8	236
							310

* Includes Junior Assistants (12 males and 82 females in 1952).

Four Inspectors of Schools attached to the Education Department are engaged in the inspection of Maori schools, mission schools, and secondary schools for Maoris.

Intermediate Schools.—Pupils on the rolls of the eighteen intermediate schools and fourteen intermediate departments at the end of 1952 numbered 13,557. The progress that is being made with the establishment of this type of school may be gauged from the fact that ten years earlier (1942), the number of pupils was 6,817. Of all children in Forms I and II of public (primary and intermediate) schools at the end of 1952, 24.4 per cent were enrolled at the intermediate schools. The average attendance during the year was 12,779. The ages of pupils on the roll at 1 July of each of the last three years were as follows.

Age, in Years	1950		1951		1952	
	Boys	Girls	Boys	Girls	Boys	Girls
Under 11	115	138	253	93	131	224
11 and under 12	1,307	1,693	3,090	1,751	2,830	3,581
12 and under 13	2,389	2,301	4,690	2,513	2,595	5,108
13 and under 14	1,513	1,174	2,687	1,599	1,194	2,793
14 and under 15	578	434	1,012	640	463	1,103
15 and under 16	124	44	168	100	35	135
16 and over	17	10	27	24	7	31
Totals	6,133	5,794	11,927	6,720	6,255	12,975

Private Schools.—No private school may be established unless application is first made to the Department of Education for registration. Certain standards of efficiency and suitability of staff, premises, equipment, and curriculum have to be fulfilled.

The following table contains the principal statistics of private primary schools for each of the last five years. The figures include Maori mission schools which are also shown separately in the summary table on page 149.

Year	Number of Schools	Roll at End of Year			Average Yearly Attendance	Teachers		
		Boys	Girls	Total		Males	Females	Total
1948	309	16,113	17,247	33,360	29,843	141	895	1,036
1949	306	17,017	17,943	34,960	30,969	150	906	1,056
1950	310	17,889	18,859	36,748	32,607	161	922	1,083
1951	308	18,828	19,684	38,512	34,235	167	931	1,098
1952	306	19,752	20,692	40,444	35,674	169	945	1,114

The majority of the schools included in the preceding table are Roman Catholic Church schools, of which there were 241 at the end of 1952 with 34,124 pupils (16,922 boys and 17,202 girls; and 853 teachers (79 males and 774 females). The average attendance was 29,919. The remaining private schools comprised 50 church schools of other denominations with 206 teachers and 5,299 pupils, and 15 un denominational schools with 55 teachers and 1,021 pupils.

POST-PRIMARY SCHOOLS.—One of the most striking features in the development of New Zealand education—i.e., the marked increase in the proportion of pupils who proceed to some form of post-primary education at the conclusion of the primary course—has already been mentioned (page 151). The raising of the school leaving age to fifteen years from 1944, which had been foreshadowed over twenty years earlier in the Education Amendment Act 1920, stimulated the movement towards secondary education for all. This movement began in 1901 when free places were introduced in district high schools. In 1903 it became obligatory on all State post-primary schools to provide some free places, and from 1914 every child who had passed the Proficiency Examination was entitled to free education for at least two years in any State post-primary school. In 1936 the Proficiency Examination was abolished, and every child gaining a Primary School Certificate or attaining the age of fourteen years became entitled to free post-primary education until the year in which he reached the age of nineteen years; extension beyond the age of nineteen is allowable in special cases approved by the Minister of Education. In 1945, when it became clear that secondary education for all was no longer a programme but had become a reality, the post-primary syllabus was revised. The whole course was based on a common core, consisting of English, social studies, general science, elementary mathematics, music, arts and crafts, and physical education, to be followed by a degree of specialization within a wide range of subjects that may be taken to the School Certificate stage. All types of post-primary schools are required by regulations made in 1945 to give to all pupils during the first two years of post-primary course a minimum number of units of instruction in the common core subjects.

Post-primary schools are either public (State) or private. The following table shows the number and types of post-primary schools in existence during each of the last five years.

Year	State Secondary Schools	Combined Schools	Secondary Departments of District High Schools	Technical High Schools	Maori Secondary Schools	Endowed and Private Secondary Schools	Totals
1948	40	7		108	28	10	73
1949	40	7		111	28	10	73
1950	40	7		110	29	10	73
1951	40	7		110	30	10	74
1952	40	7		112	30	10	79

* In addition there was one farm training school classed as a Maori secondary school.

A combined school is an amalgamation of a secondary and a technical school under a single governing body. District high schools are public primary schools with a secondary "top" and the basic course is academic, as in the normal secondary school. Where staffing and equipment allow, special courses are provided in agriculture, commercial work, and domestic science. Technical schools are described later in this section.

Until 1904 secondary schools were established by special (local) Acts of the General Assembly, and the majority of schools giving post-primary education have been established in this manner. At the present time the provisions of the 1914 Education Act allow the Minister of Education to establish such schools. State secondary schools and combined schools are controlled by Boards of Governors, and district high schools by the Education Boards.

The inspection of State post-primary schools is carried out by Inspectors of Post-primary Schools attached to the Department of Education. Commencing in 1947, these Inspectors took over the inspection of secondary departments of district high schools which were previously inspected by Primary-school Inspectors. There were (in 1953) 28 Inspectors and one Chief Inspector of Post-primary Schools.

The number of pupils at the end of each of the last five years is shown in the following table. No account is taken of lower departments of secondary schools, and in the case of district high schools only the secondary departments are included.

Year	State Secondary Schools	Combined Schools	District High Schools	Technical High Schools	Maori Secondary Schools	Endowed and Private Secondary Schools	Correspondence School	Total
1948	17,972	3,401	6,895	12,136	668	8,827		601,50,500
1949	18,400	3,510	7,320	12,504	777	9,112		533,52,156
1950	19,352	3,472	6,992	13,859	813	9,341		494,54,323
1951	20,341	3,579	7,195	14,871	863	9,791		457,57,097
1952	21,872	3,813	7,946	16,179	871	10,413		435,61,529

In addition to the foregoing, there were, in July 1952, 26,349 part-time students attending technical classes, 1,957 students receiving part-time tuition from the Correspondence School, and 1,420 students receiving part-time instruction from the Technical Correspondence School.

The numbers of each sex attending post-primary schools at the end of 1952 were: State secondary schools, 10,823 boys and 11,049 girls; combined schools, 2,140 and 1,673; secondary departments of district high schools, 3,714 and 4,232; technical schools, 9,115 and 7,064; endowed and registered private secondary schools, 4,546 and 5,867; Maori secondary schools, 588 and 283; and full-time at correspondence school, 172 and 263.

Technical Schools.—The technical schools fall roughly into two types: (a) those at the small centres, which provide for all the post-primary needs and are distinguishable from secondary schools only by having in general a rather more strongly developed practical side; and (b) the large technical schools in the main centres, in which there is less evidence of the generalized academic curriculum, since this is adequately provided by the city secondary schools.

However, even in the latter type most of the courses in the day schools are still designedly pre-vocational and not genuinely "technical" in character. Technical schools are normally controlled either by a Board of Managers or by the Education Board of the district acting in a similar capacity.

There were thirty technical schools in 1952. The following table shows the number of pupils taking the different courses available (as at 1 July in each of the last five years).

Course	1948	1949	1950	1951	1952
Industrial	4,704	4,986	5,275	5,593	5,683
Commercial and general	5,300	5,345	6,190	7,058	7,731
Domestic	2,699	2,671	2,862	2,903	2,936
Agricultural	968	963	1,115	1,030	1,075
Fine arts	411	320	124	182	229
Totals	14,082	14,285	15,566	16,766	17,654

Technical Classes.—The number of centres at which technical classes for part-time day and evening students are provided was 145 in 1952.

The number of individual students including apprentices attending day classes in 1952 was—

Classes conducted by Education or High School Boards	9,690
Classes conducted by Technical School Boards or by Managers	16,659

Of the total of 26,349 students, 19,229 (11,344 males and 7,885 females) held free places.

The above figures do not include 3,377 part-time students at 1 July on the rolls of the Correspondence and Technical Correspondence Schools.

Technical Correspondence School.—In July 1946 the Department took over the responsibility for the study courses previously conducted by the Army Education and Welfare Service. A Technical Correspondence School was established in Wellington to develop these courses for men in the Armed Services, and also to provide correspondence instruction in vocational and technical subjects for apprentices and advanced students unable to attend technical schools or classes.

The number of students on the roll at 1 July 1952 was 1,420. There were 28 full-time teachers besides the Principal on the staff at the end of the year 1952.

Probable Destination of Post-primary Pupils.—An indication of the vocations intended to be followed by pupils leaving public post-primary schools during 1952 is contained in the next table. Of the totals, 5.1 per cent of boys and 2.3 per cent of girls intended to proceed to full-time University studies, while a further 2.2 per cent of boys and 6.4 per cent of girls stated their intention of entering the teaching profession. Clerical occupations (including typing) claimed 12.4 per cent of boys and 29.9 per cent of girls; shops and warehouses, 7.7 per cent and 15.1 per cent; manual trades, 31.8 per cent and 1.2 per cent; farming 22.9 per cent and 1.2 per cent; 1.1 and 16.8 per cent intended to stay at home; various other occupations claimed 10.6 per cent and 19.6 per cent; while 6.2 per cent of boys and girls respectively did not know their future vocations at the time.

Occupation	Secondary Schools		Combined Schools		Technical High Day Schools		District High Schools		Totals	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
University college	336	151	52	29	89	23	8	5	485	208
Teaching or training college	124	328	20	53	46	117	21	78	211	576
Professional engineering, surveying, architecture	61		5		42		10	4	118	4
Clerical (including typing)—										
(a) Government and local body	184	228	34	47	126	162	93	145	437	582
(b) Banks, insurance, legal, commercial houses, shops, and warehouses	462	871	67	167	170	583	57	259	756	2,100
Shop and warehouse assistants	250	435	56	89	313	520	114	311	733	1,355
Manual trades—										
(a) Government and local body	96	15	32		188	9	66	16	382	40

Occupation	Secondary Schools		Combined Schools		Technical High and Day Schools		District High Schools		Totals	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
(b) Building	167		56		463		113		799	
(c) Motor engineering	134		59		295		81		569	
(d) General engineering	81		27		213		29		350	
(e) Printing	29	1	6		66	3	2	1	103	5
(f) Other trades	228	95	45		442	119	126	18	841	232
Farming	557	45	180	3	811	28	654	28	2,202	104
Factory operatives	49	57	6	4	100	171	40	72	195	304
Other occupations	200	623	57	108	308	468	138	245	703	1,444
At home	34	432	2	101	25	459	44	508	105	1,500
Not known	225	190	12	6	277	203	86	103	600	502
Totals	3,217	3,471	716	607	3,974	3,085	1,682	1,793	9,589	8,956

Duration of Stay at Post-primary School.—The following table gives particulars of pupils who left public post-primary schools in 1952, classified according to years of attendance. The approximate average length of stay at the various types of school was: secondary schools, 3 years 2 months; combined schools, 3 years; technical high and day schools, 2 years 5 months; secondary departments of district high schools, 2 years 3 months; all post-primary schools, 2 years 8 months.

Year of Attendance	Secondary Schools		Combined Schools		Technical High and Day Schools		District High Schools		All Schools	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
First	466	7.0	117	8.8	1,204	17.1	796	22.9	2,583	13.9
Second	1,868	27.9	429	32.4	3,105	44.0	1,417	40.8	6,819	36.8
Third	1,773	26.5	321	24.3	1,829	25.9	805	23.2	4,728	25.5
Fourth	1,510	22.6	252	19.1	682	9.7	375	10.8	2,819	15.2
Fifth	968	14.5	175	13.2	221	3.1	74	2.1	1,438	7.8
Sixth and over	103	1.5	29	2.2	18	0.2	8	0.2	158	0.8
Totals	6,688	100.0	1,323	100.0	7,059	100.0	3,475	100.0	18,545	100.0

It has been mentioned earlier that, except in special circumstances, children are not permitted to leave school until they reach the age of fifteen years, and it would appear that many pupils entering post-primary schools remain there only as long as they are required to, as no less than 50 per cent do not proceed beyond the second year of attendance.

Secondary Schools for Maoris.—At the end of 1952, 831 Maori pupils were receiving post-primary education at the 11 Maori secondary schools, 242 of the total being Government scholarship holders. In addition, there were 41 scholarship holders enrolled in public post-primary schools.

A further step forward in the provision of post-primary education for Maoris was the approval of the establishment of Maori district high schools. These schools, unlike the private denominational schools, are controlled by the Education Department; they provide courses of a practical nature specially suited to the needs of the Maori pupils. There were 9 such schools at the end of 1952.

Secondary School Bursaries.—Under regulations made in 1943, bursaries, of a maximum annual value of £40 and tenable for a period of up to two years, may be granted to pupils obliged to live away from home in order to take a Sixth Form course at a post-primary school (public or private) which is approved for accrediting purposes. In order to qualify, applicants must be under eighteen years of age and must have passed either the School Certificate or the University Entrance Examinations or have been accredited for the latter.

Technical School Bursaries.—Bursaries of a maximum value of £40 may be awarded to pupils who have completed at any post-primary school a two years' course preparatory to a specialized course in agriculture, fine arts, engineering, building construction, commerce, or home science which can be completed only at some technical school. The bursaries are tenable at post-primary schools approved for that purpose and may be held for a maximum of two years. Applicants must be under the age of seventeen years at the commencement of the specialized course and must be obliged to live away from home in order to receive satisfactory instruction in the courses to be followed.

VOCAATIONAL GUIDANCE.—Since 1938 full responsibility for the work of vocational guidance of pupils at post-primary schools, which for some years had been carried on almost entirely by voluntary organizations, has been taken by the Government. Eight vocational guidance officers (four men and four women) were appointed, two to each of the four chief centres; and educational guidance officers, known as "careers advisers," were also selected at certain large post-primary schools to work in conjunction with the district vocational guidance officers. So far as the work of finding positions for children leaving school was concerned, the vocational guidance officers acted in collaboration during the war with the Man-power Officers of the National Service Department, and in each of the four main cities a "Youth Centre" was established where the work of guidance and placement was undertaken jointly by officers of the Education and National Service Departments.

The Education Department assumed the full control of the youth centres in 1943, and the staffs of the centres (now called Vocational Guidance Centres) have been greatly strengthened and their activities expanded. Offices have been opened in the four main centres and in Lower Hutt. At Invercargill there is a part-time centre. The Vocational Guidance Officers are, however, in close contact with the post-primary schools in other centres. The Vocational Guidance Officers, acting in conjunction with headmasters and special careers teachers in the schools, offer their services at any point in the child's career where a choice has to be made, whether of school course or of vocation. When a child has made his choice of career the Vocational Guidance Officer will if requested find suitable employment for him and endeavour to follow up his progress until he is finally and satisfactorily settled in his line of work. Working in conjunction with the Education Committee of the Rehabilitation Board, the Vocational Guidance Officers at the conclusion of the last war assisted in the rehabilitation of returned servicemen, particularly in the selection of suitable courses of study. This particular work has declined in recent years.

The centres are in frequent touch with a number of voluntary agencies such as "Heritage," Crippled Children Society, and lay Tuberculosis Associations.

For the year ended 31 December 1952 the total callers at the centres numbered 14,915. In addition, 6,450 pupils were interviewed individually in post-primary schools. Group interviews were carried out with 411 groups of children in the aggregate several thousands interested in discussing particular vocations. Other activities, apart from attention to numerous inquiries by letter and the preparation of information sheets covering over one hundred occupations, included 759 visits to schools, addresses at 239 meetings, and 1,187 follow-up visits to persons placed in employment.

RURAL EDUCATION: Consolidation of Schools.—In order to give children in country districts the standard of special equipment and more specialized teaching in larger schools the consolidation of the smaller rural schools has been undertaken wherever practicable. The extent of this consolidation will be evident from the fact that, whereas in 1934 there were 2,532 public primary (excluding intermediate) schools, the number in 1952 had fallen to 1,857. The fall in numbers is also due in part to the exclusion since 1946 of part-time and side schools from the totals. There were approximately 80 such schools in 1934 and 40 in 1946.

Transport and Board.—A natural consequence of consolidation is the provision of adequate transport facilities to bring children into the centres. Free passes on the railway to the nearest public or private school are granted to children living near a railway line but out of reach of a primary school, and the same privilege is enjoyed by pupils having to travel to attend secondary schools, combined schools, district high schools, technical high schools, and private secondary schools, as well as to part-time pupils travelling to attend technical schools or classes, and pupils attending manual-training centres.

Where railway facilities are not available or sufficiently convenient, transport of pupils is by motor vehicle, horse, or ferry. Transport by buses operated either by the Education Department or by private operators under contract with the Department is free. Where neither a departmental nor contract bus service is available the cost of transport is met by payment of a conveyance or horseback allowance.

The expenditure on transport of pupils for the financial year 1952-53 was £1,059,489, as compared with £961,898 in 1951-52.

The expenditure on boarding-allowances of pupils attending schools for the last three years is given in the table below.

	1950-51	1951-52	1952-53
	£	£	£
Public primary and intermediate	12,351	13,700	9,402
Private primary	4,444	7,730	7,018
State secondary	72,166	71,799	74,587
Maori	3,668	3,826	4,623
Private secondary	32,112	33,929	37,656
Totals	124,741	130,984	133,286

The next table gives particulars of the number of children transported to school and the number in receipt of boarding allowance as at 1 July 1952, according to the type of school attended. Totals for the two preceding years are also shown.

Type of School	Number of Pupils on Roll	Total Pupils Transported to School	Number Receiving Boarding-allowance
Public primary schools	255,133	42,417	239
Intermediate schools and departments	13,776	1,137	27
Secondary departments of district high schools	8,931	4,703	161
State secondary schools	22,889	4,894	1,579
Technical high schools	17,944	7,249	624

Type of School	Number of Pupils on Roll	Total Pupils Transported to School	Number Receiving Boarding-allowance
Combined schools	4,079	790	585
Maori village schools	13,347	4,291	60
Chatham Islands schools	112	79	3
Private primary schools	39,342	2,822	335
Private secondary schools	11,622	1,258	1,745
Totals, 1952	387,175	69,640	5,358
Totals, 1951	363,492	64,764	4,453
Totals, 1950	348,643	62,661	4,416

Correspondence School.—Since 1922 correspondence classes have been conducted for the primary education of children in very remote areas and of those unable to attend school on account of lengthy illness or other causes. In 1929 courses were extended to cover secondary education up to the stage of the University Entrance Examination. The usual subjects of the syllabus of instruction are taught at the school, and in addition pupils who require instruction which is usually available in a special class in a public school can receive instruction by correspondence. A corporate school spirit is developed through craft and club activities, weekly radio lessons, and personal visits from itinerant teachers. The work of the school has been greatly facilitated by the extension of the practice of visiting pupils in their homes. Vacation schools have been organized in various centres in order to give pupils the opportunity of doing practical work and of taking part in group activities.

Young persons in employment, including uncertificated teachers of small public schools, junior assistants in Maori schools, Post Office cadets, and others who are unable to attend post-primary schools for evening classes, also receive tuition as part-time pupils of the Correspondence School. One of the features of the school is the provision of instruction for pupils taking practical subjects, such as needlework, woodwork, practical agriculture, and science subjects.

At the end of 1952 there were 3,258 pupils on the roll of the Correspondence School, 1,596 being in the primary department and 435 full-time and 1,227 part-time students in the secondary department. The teaching staff of the school consists of a headmaster, 83 secondary, and 50 primary assistant teachers.

Agricultural Clubs.—More particularly in rural schools, practical interest in agriculture has been stimulated by the widespread formation of boys' and girls' agricultural clubs. The pupils undertake projects in livestock rearing and crop growing which are adjudged annually on the club field day, usually held at the school or local centre.

The agricultural instructors and nature study specialists employed by the Education Boards play an important part in the formation of the clubs, and by giving technical advice do much to assure the successful completion of the various projects. The clubs receive active support from parents, teachers, and the farmers' organizations.

HEALTH SERVICES.—Information on the medical and dental inspection of school children and the dental-clinic system is given in Section 5A (Public Health) of this Year-Book.

Free Issue of Milk.—The milk-in-schools scheme, for the free issue of a half-pint daily ration of milk to children, commenced on 1 March 1937. Information concerning this scheme is also contained in Section 5A.

TEACHING PROFESSION: Training of Teachers.—There are five teachers' training colleges available to student who desire to enter the teaching profession, and at the end of 1952 there were 2,301 students in training. Of these, 2,167 were "Division A" students and 134 "Division C" students. The minimum academic qualification for "Division A" is the School Certificate Examination, while students of "Division C" must be University graduates.

The following table shows the number of students in training at the teachers' training colleges in December of each of the years 1948-1952.

Year	Males	Females	Totals
1948	784	1,063	1,847
1949	929	1,265	2,194
1950	943	1,359	2,302
1951	888	1,430	2,318
1952	818	1,483	2,301

The normal course of training for "Division A" students is a period of two years at a teachers' training college, followed by a further period of one year as a probationary assistant attached to a public school. Third-year studentships, which entitle holders to an extra year's training in lieu of a probationary year, are available to selected students who wish to specialize in nature study, music, physical education, or arts and crafts, or who wish to become speech therapists or teachers of the deaf. A limited number of selected students are permitted to spend most of the third year of training doing full-time study towards a university degree. There were 52 such students in December 1952. For students of "Division C" the course is for one year. These students are University graduates who train for service in post-primary schools. To enable students to qualify to teach homecraft subjects, bursaries providing training at a teachers' training college and at a technical high school were instituted in 1943. There were 79 homecraft trainees in the Auckland and Dunedin Training Colleges in 1952.

In order to meet future staffing requirements due to the rapidly increasing school population a special training scheme was started in September 1949 for selected trainees aged twenty-one years and over. In December 1952 the number of trainees taking the special one-year course at the training colleges was 268 (165 men and 103 women). The corresponding figure in December 1951 was 286 (178 men, 108 women). On completion of the special training-college course these trainees are required to serve for one year as probationary assistants before being granted trained teachers' certificates. These trainees are not included in the figures in the tabulation of students at training colleges shown above.

Post-primary Teachers' Bursaries are awarded annually to students who have reached a standard of education at least equivalent to University Entrance, to enable them to attend full time at University to complete approved degree courses in preparation for entry into the post-primary teaching profession. Candidates must have reached 17 years of age by 31 December of the year in which their application is submitted. The bursaries are of an annual value of £70, plus payment of tuition fees, with an additional £40 if students are obliged to live away from home to attend University. The tenure is for a maximum period of four years. On completing their University courses students may be required to attend a teachers' training college for one year as "Division C" students, and then to serve for a period of four to five years as teachers in post-primary schools. The number of these bursars attending University in 1952 was 346.

A maximum of twenty Physical Education Bursaries are awarded annually to students to enable them to attend the School of Physical Education at the University of Otago for a three-year diploma course in physical education. The bursaries are of the same value as the Post-primary Teachers' Bursaries, and the bursars may be required, on completion of the course, to undertake work for a period of four to five years either as teachers of physical education or in some other occupation approved by the Director of Education. The number of such bursars attending University in 1952 was 50.

Public Primary-school Teachers.—The following table shows the number of teachers in public primary schools in the various education districts as at 30 November 1952, together with totals for 1951, 1950, and 1940.

—	Sole Teachers		Heads of Schools		Assistant Teachers		Probationary Assistants		Total Number of Teachers	Percentage of Male to Female Teachers
	M.	F.	M.	F.	M.	F.	M.	F.		
Education District—										
Auckland	51	4	222	11	419	789	99	126	1,721	85.1
South Auckland	58	3	208	7	229	549	54	73	1,181	86.9
Taranaki	31	5	72	9	79	179	13	34	422	85.9
Wanganui	56	12	84	8	97	227	37	30	551	98.9
Hawke's Bay	60	12	82	6	118	225	19	43	565	97.6
Wellington	55	16	112	11	282	468	58	84	1,086	87.6
Nelson	27	9	40	2	49	101	13	15	256	101.6
Canterbury	88	21	169	15	284	534	76	75	1,262	95.7
Otago	46	11	95	4	158	235	53	46	648	118.9
Southland	45	11	75	4	86	132	22	31	406	128.1
Intermediate schools and departments			19		249	191			459	140.3
Totals, 1952	517	104	1,178	77	2,050	3,630	444	557	8,557	95.9
Totals, 1951	535	102	1,158	77	1,835	3,550	468	533	8,258	93.8
Totals, 1950	561	138	1,115	81	1,571	3,482	453	459	7,860	88.9
Totals, 1940	644	363	991	147	886	2,890	227	438	6,586	71.6

Between 1940 and 1952 the total number of teachers increased by 1,971, male teachers contributing 1,441 of this increase and female teachers 530. The average number of pupils per teacher was 27.3 in 1940, 28.0 in 1951, and 28.5 in 1952.

Post-primary-school Teachers.—The following table indicates the number of full-time teachers employed in the post-primary schools mentioned. The principals are included except in the case of district high schools, the figures for which apply to assistants in the secondary department only.

Year	Secondary Schools		District High Schools		Technical High Schools		Combined Schools		Grand Totals
	Males	Females	Males	Females	Males	Females	Males	Females	
1948	474	396	257	132	479	246	97	69	2,150
1949	481	402	291	126	492	230	99	67	2,188

Year	Secondary Schools		District High Schools		Technical High Schools		Combined Schools		Grand Totals
	Males	Females	Males	Females	Males	Females	Males	Females	
1950	511	421	286	110	535	251	102	68	2,284
1951	527	447	308	102	564	263	103	70	2,384
1952	572	461	334	116	632	273	114	72	2,574

Male teachers employed in post-primary schools fell from 908 in 1940 to 707 in 1942, this decrease being almost entirely due to enlistment in the Armed Forces. The position was slightly improved in 1943, and each succeeding year has shown a further advance, the number in 1952 being 1,652, an increase of 744, as compared with 1940. The number of female teachers rose from 630 in 1940 to 838 in 1945, this increase being partially due to the employment of women during the war period in positions normally occupied by men. There was a fall to 795 in 1946, but the number at the end of 1952 (922) was 292 in excess of the number employed in 1940. Teachers employed in private post-primary schools and Maori secondary schools are not included in the figures. In 1952, 561 full-time teachers (247 male, 314 female) were employed in these schools.

TEACHING AIDS.—Regular broadcasting programmes for schools were initiated in 1931. A varied series of programmes linked with the curriculum are broadcast each school day from all main national stations. Special lessons are also broadcast for Correspondence School pupils.

Visual Aids.—The National Film Library, a branch of the Education Department, lends films free of charge to schools and to organizations having some educational purpose. More than 1,300 schools have 16 mm. sound projectors.

Film strips are also available on loan from the film-strip libraries in the offices of Education Boards. They can also be purchased for a nominal sum from the National Film Library. About two-thirds of the schools are equipped with film-strip projectors.

Museums.—To assist schools to make the fullest use of the museums, an education officer is attached jointly to the museum and the teachers' training college in each of the four main centres. Cases of exhibits are circulated amongst schools where pupils are unable to make regular visits to a museum.

Publications.—The *School Journal*, an illustrated paper, is published regularly in four separate parts suitable for pupils in the various standard classes. It is supplemented by primary-school bulletins which deal with topics of New Zealand history, geography and nature study. These publications are prepared in the Education Department and issued free to all primary and intermediate schools, both State and private. Vernacular *Journals* are also issued to schools in Western Samoa and the Cook and Niue Islands.

Post-primary bulletins are published fortnightly and issued free to all public and private post-primary schools. They provide background reading for subjects of the revised curriculum, particularly in social studies, science, literature, and music.

A bi-monthly *Gazette*, mainly for the information of teachers, is published by the Department. It is a medium for the dissemination of official information and for the advertisement of vacancies. Copies are distributed to educational authorities and to State schools throughout New Zealand.

As stated under an earlier heading, textbooks, prepared in the Department of Education, are issued free to all pupils in public and private primary schools.

HIGHER EDUCATION: New Zealand University.—Control of higher education in New Zealand is vested in the New Zealand University Acts of 1870, 1874, and 1875.

The University was formerly an examining, not a teaching, body with four teaching institutions affiliated to it—the Auckland University College, founded in 1882; Victoria University College, founded in 1897 at Wellington; Canterbury University College, founded in 1873 at Christchurch; and Otago University, founded in 1869 at Dunedin. By the New Zealand University Amendment Act 1926 the constitution of the University was altered so that it now actually consists of the four University colleges. Each of the colleges, besides providing the usual University courses, specializes in certain directions: Otago University has medical and dental schools, a school of mining and metallurgical engineering, a school of home science, and a school of physical education; Canterbury University College has a school of engineering (mechanical, electrical, civil, and chemical), and a school of fine arts; Auckland University College has a school of architecture, a school of fine arts, and a school of engineering (mechanical, electrical, and civil); and Victoria University College specializes in law, has a school of public administration, and a school of social work. There are also two agricultural colleges—viz., Massey and Canterbury—associated with the University (see page 169).

In 1930 a New Zealand University Amendment Act was passed to enable the University to discharge its functions under the Law Practitioners Amendment Act 1930. For this purpose a Council of Legal Education was established to make recommendations to the Academic Board of the University with respect to any matter relating to legal education. Further, the Senate of the University in making or altering statutes concerning legal education must first consider any recommendations made by the Academic Board or the Council of Legal Education.

By means of an amendment to its own statutes and with the consent of the colleges, the University has set up a University Grants Committee, through which applications for grants are placed before the Government.

In 1952 there were 10,365 students actually in attendance at the four University colleges and the two agricultural colleges. Of these, 1,073 were graduates, 7,725 undergraduates, and 1,567 unmatriculated students. Of the unmatriculated students, 614 were taking short courses at the agricultural colleges. A number of the unmatriculated students are returned servicemen, who are admitted under special terms. In addition, there were 940 students attached to the various University colleges, but exempt from lectures. Comparable figures for the five years quoted are given in the following table.

Year	Students Attending Lectures		Exempt Students		Totals
	Males	Females	Males	Females	
1948	9,099	2,228	1,302	212	12,841
1949	8,490	2,268	1,184	178	12,120
1950	8,254	2,619	1,018	164	12,055
1951	8,162	2,522	882	125	11,691
1952	7,793	2,572	835	107	11,205

The numbers of male students attending lectures in the last five years are substantially above those of pre-war years, although there was a decrease of 1,384 between 1947 and 1952. The peak was reached in 1947, the number in that year being 5,052 or 124 per cent. above 1939. The numbers of female students attending lectures have also increased, the number in 1952 being 1,287, or 100 per cent. higher than in 1939. Students exempted from attendance at lectures increased in number during the post-war years, but their number declined after 1948, and in 1952 it represented 9.1 per cent of all students (11.8 per cent in 1948). The award of rehabilitation bursaries to ex-servicemen no doubt contributed to the high figures from 1946 to 1948. Holders of rehabilitation bursaries fell from approximately 3,400 in 1946 to 384 in 1952. Indications are therefore that an increased proportion of young people in the relevant age-groups is continuing education at the University level, so that the falling-off in numbers of ex-servicemen is being almost balanced by increases in numbers from other sources.

Professors attached to the various University colleges in 1952 numbered 90, of whom Auckland had 21; Victoria, 18; Canterbury, 17; Otago, 27; Massey, 5; Canterbury Agricultural, 2. In addition there was a considerably larger number of full-time lecturers, part-time lecturers, and assistants.

The following table gives particulars of students who were taking definite courses during 1952 and each of the preceding two years.

Course	1950		1951		1952	
	Males	Females	Males	Females	Males	Females
Agriculture—						
Degree	154	2	156	127	5	132
Diploma	283	7	290	276	5	281
Other	85		85	74	5	79
Architecture—						
Degree	114	1	115	90	90	79
Diploma	50	4	54	37	2	39
Other	58		58	65	65	61
Arts	2,629	1,433	4,062	2,533	1,380	3,913
Commerce	1,573	95	1,668	1,483	77	1,560
Dentistry	200	4	204	189	4	193
Divinity	40	7	47	35	3	38
Education : Diploma	92	16	108	90	13	103
Fine Arts : Diploma	44	109	153	61	114	175
Engineering	414		414	369	1	370
Home Science—						
Degree			37	37	42	42
Diploma			48	48	39	39
Journalism : Diploma			35	13	48	25
Law			31	11	42	19
Massage : Diploma			4	45	49	
Medical Science			3	3	2	4

Course	1950		1951		1952	
	Males	Females	Males	Females	Males	Females
Medicine	495	47	542	504	48	552
Mining : Diploma	55		55	13	13	7
Music	92	105	197	82	84	166
Physical Education : Diploma	30	37	67	23	41	64
Public Administration : Diploma	11		11	9	9	14
Science (including Medical, etc., intermediate)	1,674	291	1,965	1,656	307	1,647
Social Science : Diploma	8	8	16	12	13	25
Other courses	46	26	72	30	59	89
Totals	8,708	2,368	11,076	8,244	2,280	10,524

Free University Education.—Free University education was instituted in 1911 for all holders of University Scholarships and, in more recent years, increasing numbers of bursaries have been awarded. The most important awards for those entering the University are the ten University Junior Scholarships awarded by the University of New Zealand, and the twenty University National Scholarships for which funds are provided by Department of Education. Both are tenable for four years and provide full tuition fees, a scholarship allowance (£80 and £70 respectively), and an additional allowance (£60 for the former and £40 for the latter), for students who have to live away from home. These scholarships, together with the Taranaki Scholarship and certain privately endowed scholarships, are awarded on the results of the Entrance Scholarships Examination conducted by the University of New Zealand.

Scholarships awarded during the degree course are the University Senior (£90 per annum) and John Tinline Scholarships (£90 per annum). The various colleges also have private scholarships for which their own students may compete. The chief scholarships awarded at the end of the University course are the Rhodes Scholarships, the 1851 Exhibition Scholarships, the Post-graduate Scholarships in Arts and "Science, the Travelling Scholarships in Commerce, Law, Engineering, Architecture, Medicine, and Dentistry, the Macmillan Brown Agricultural Scholarship, the Shirlcliffe Scholarships, the Gordon Watson Scholarship, the Shell Post-graduate Scholarship, and the National Research Scholarships. All are tenable abroad. The University of New Zealand also awards Research Fellowships, the value of which is not fixed, but the normal grants have been approximately £300 per annum for a period of two years. Each University college may also award two Research Scholarships of an annual value of £200, tenable in New Zealand.

Several different kinds of bursaries, as distinct from scholarships, are awarded each year. For the most part these provide full tuition fees, while several provide also bursary or boarding allowances. Bursaries awarded by the Department of Education are University National (boarding and ordinary), Special, Post-primary Teachers' and Physical Education Bursaries. There are also bursaries awarded by other Government Departments.

National Boarding Bursaries to the number of 65 are available annually to candidates who, though not qualifying for scholarships, have performed creditably in the Entrance Scholarships Examination. At least forty of these bursaries go each year to students who are required to live away from home in order to attend a University College; the remainder, however, may be held by students who, though living at home, are in need of financial assistance. In addition to full tuition fees, the bursary allowance (£70) is paid.

Ordinary National Bursaries are available to all students qualifying for University Entrance either by examination or by accrediting. These bursaries cover full tuition fees. Bursars who hold a Higher School Certificate receive in addition a small bursary allowance of £30 if they attend as full-time students. Both forms of National Bursary are tenable for four years, or for five years in the case of medical, dental, and engineering students.

In order to assist qualified students to pursue University courses in agriculture, architecture, fine arts, engineering, science, and home science, approximately 110 Special Bursaries are awarded each year. They are tenable for five years for engineering and four years for other courses. They provide full tuition fees, a cash payment of £30, and (where appropriate) a boarding allowance of £40.

Full details of the amounts payable and other qualifying conditions for the various classes of bursaries are available in a vocational guidance pamphlet issued by the Department of Education annually entitled "Next Year".

The total number of University National (ordinary and boarding) and Special Bursaries current in 1952 was 3,510.

Bursaries, etc., are also awarded annually by other Government Departments and include Medical and Dental Bursaries (Health Department), National Research Scholarships and National Research Fellowships (Department of Scientific and Industrial Research), Rehabilitation Bursaries (Rehabilitation Department), Coal Mining Bursaries (Mines Department), Public Service Bursaries (Public Service Commission).

From the table given below will be seen the number of students, including those taking short courses at agricultural colleges, who received free University education during each of the last five years.

Year	Junior University, University National, and Taranaki Scholarships	Senior University Scholarships	University National (Ordinary and Boarding) and Special Bursaries	Training-college Studentships	Other	Totals
1948	115	31	3,301	789	3,342	7,578
1949	109	30	3,404	847	2,398	6,788
1950	107	25	3,661	715	1,820	6,328
1951	104	24	3,610	719	1,419	5,876
1952	124	22	3,510	719	1,192	5,567

Holders of rehabilitation bursaries numbered 384 in 1952, 572 in 1951, 907 in 1950, 1,727 in 1949, and 2,655 in 1948.

Agricultural Colleges.—There are two agricultural colleges specializing in higher agricultural education—Massey Agricultural College, near Palmerston North, and Canterbury Agricultural College, near Christchurch. The colleges are separately governed, though both are attached to the University of New Zealand. The staff of Massey College consisted in 1952 of 5 professors, 47 lecturers and assistant lecturers, while that of Canterbury was made up of 2 professors, 29 lecturers and assistant lecturers. The total number of students at Massey College in 1952 was 515 and at Canterbury 565. These numbers include 225 students at Massey and 389 at Canterbury Agricultural Colleges taking short courses.

Encouragement in the development of higher agricultural education is given through Government grants to the colleges, amounting to £150,317 in 1952-53. Various research projects at the colleges have been aided by expert assistance and grants from the Department of Scientific and Industrial Research.

In addition, special bursaries in agriculture (referred to on the previous page) are awarded to qualified candidates to provide them with practical training for positions as teachers or instructors of agriculture. During 1952, 19 bursars were in attendance at Canterbury Agricultural College, 13 at Massey College, and 9 at the four University colleges.

CHILD WELFARE.—The Child Welfare Act of 1925 provided for the creation of a special branch of the Education Department, now known as the Child Welfare Division. The Act was passed to make better provision with respect to the maintenance, care, and control of children who are placed specially under the protection of the State, and to provide generally for the protection and training of indigent, neglected, and delinquent children.

An important section of the Act provided for the establishment of Children's Courts, to be presided over by Stipendiary Magistrates or Justices specially authorized to exercise jurisdiction in these Courts. Provision was also made for the appointment of honorary associates of either sex, whose function it is to consider all the facts concerning children brought before the Courts and to advise the presiding Magistrate or Justice as to what action should be taken. The appointment of Child Welfare Officers for the investigation of all cases coming before the Courts was also provided for. These investigations are carried out mainly by the regular officers employed by the Department, but in outlying districts the services of honorary child welfare officers are utilized for this important work. At 31 March 1953 there were 191 men and women serving as honorary child welfare officers.

The principle of dealing with children in the privacy of the Magistrate's room had been followed for many years throughout New Zealand, and the Child Welfare Act was designed to give legality to such a practice. Very wide discretionary powers are given to these special Courts in dealing with children. The ordinary procedure of requiring the child to plead, of taking evidence on oath, and, indeed, of hearing the particular charge may be dispensed with altogether. Whenever practicable the Children's Court is held in premises apart from the ordinary Police Court, and no newspaper is permitted to publish either the names of children appearing before these Courts or any particulars that are likely to identify a child.

A child was originally defined for purposes of the Act as one under sixteen years of age. This age was raised to seventeen in 1927.

Children's Courts deal with cases of children brought either (a) on a complaint under the Child Welfare Act that a child is neglected, indigent, delinquent, not under proper control, or living in a detrimental environment or (b) charged with an offence. After hearing the complaint or the charge and in the light of the Child Welfare Officer's report, the Court may, according to the needs of the case, commit the child to the care of the Superintendent of Child Welfare, or place him under supervision of a Child Welfare Officer for a period (usually one year or two years) or discharge him with an admonishment and, on occasion, an order for restitution or a fine.

The numbers of children appearing before the Children's Courts in the last three years (ended 31 March) were as follows.

	1951	1952	1953
On "complaints" (under the Child Welfare Act)	484	468	440
For offences (including offences against Acts, regulations, or by-laws)	1,469	1,791	1,820
Totals	1,953	2,259	2,260

On the basis of the total juvenile population of New Zealand at the time, the incidence of appearances for offences is shown as follows.

	1951	1952	1953
Total Court appearances for offences	1,469	1,791	1,820
Rate*	45	53	52
Court appearances for all more serious offences (excluding offences against special Acts, regulations, or by-laws)	1,102	1,286	1,274
Rate*	33	38	36

* Number of cases per 10,000 of the population aged seven to seventeen years.

The decisions made in the Children's Court during the year ended 31 March 1953 are shown in the summary below.

Decision	Year Ended 31 March 1953
Committed to the care of the Child Welfare Superintendent	395
Placed under supervision of Child Welfare Officers	824
Admonished and discharged with or without costs, restitution, or fine	826
All other decisions	215
Total	2,260

Most of the children who are committed to the care of the Superintendent of Child Welfare and who are thereby under his guardianship are placed by him and his officers either in foster-homes and at school, or in employment at private board. Only those who require special care and training which cannot be provided in the ordinary life of the community are placed in institutions administered by the Superintendent. Some few reside in private institutions—e.g., in post-primary school hostels.

Of the total of 6,177 children under the control and supervision of the Child Welfare Superintendent and his officers at 31 March 1953, 3,009 were under the guardianship of the Superintendent and a further 41 were in effect his wards for the time being. These 3,050 children were at that date placed as shown in the following summary.

	Number	Percentage of Total
Residing in individual private homes (foster-homes, employers' or relatives' homes)	2,466	80.9
In institutions administered by the Child Welfare Division (including those temporarily admitted)	300	9.8
In mental hospitals	120	3.9
In residential schools and colleges (including schools for handicapped children)	118	3.9
In hospitals, convalescent homes, etc.	17	0.6
In children's homes (including orphanages, etc.)	29	0.9

For the children requiring institutional care and training the Child Welfare Division administers several different types of institutions. The Girls' Training Centre at Burwood, Christchurch, and the Boys' Training Centre at Levin each provide for the more difficult or disturbed girls or boys. The centres are open institutions providing full educational facilities with qualified and trained teachers and also a wide range of vocational training. Another small institution at Featherstone provides specially for Maori girls who, while not seriously difficult, require some training before placement in the community. Two small hostels for girls at Wellington and at Christchurch and one for boys at Auckland provide for those who, while in ordinary employment, require for the time being the conditions of supervision and care obtainable in a hostel. Receiving homes and boys' homes in several of the main centres provide for temporary care and observation.

Children placed by the Courts under supervision of Child Welfare Officers are supervised in their own homes, except that in a few cases, with the approval of the parents or guardians, the Child Welfare Officer arranges placement elsewhere—e.g., in employment. For most children placed under supervision the methods available thereby prove sufficient for the needs; where it is not sufficient the child usually appears before the Court again and is committed to the care of the Superintendent. There were 963 children under supervision at 31 March 1953.

Preventive cases, numbering 799 at 31 March 1953, consist of children who, without any Court appearance, are being supervised and assisted by Child Welfare Officers under arrangements made voluntarily with the parents or guardians.

As provided for in the Child Welfare Act 1925, Child Welfare Officers, on receiving notification from the Registrars of ex-nuptial births, make confidential inquiries and assist the mother as necessary in making provision for her child.

Child Welfare Officers administer the provisions of the Infants Act 1908 by which young children living apart from their parents or guardians are required to be in licensed foster-homes. At 31 March 1953, 970 such children were being supervised.

Also under the provisions of the Infants Act 1908, on request by a Magistrate to whom an application for the adoption of a child has been made, a Child Welfare Officer investigates the proposal and reports to the Court accordingly.

The Child Welfare Superintendent, under the provisions of the Child Welfare Amendment Act 1948, assumes guardianship of unaccompanied immigrant children from Britain on their arrival in New Zealand, and similarly of refugee children from other countries. He also has administrative responsibility for the Polish refugee children who came to New Zealand during the war.

COUNCIL FOR EDUCATIONAL RESEARCH.—In 1933 the Carnegie Corporation of New York set up a committee to report on the proposal to found in New Zealand a Council for Educational Research. This committee called a conference of representative educationists to consider the proposal, and approached educational authorities for their co-operation. In view of the unanimous support given to the proposal, the committee recommended the foundation of the Council, and in November 1933 the Carnegie Corporation appropriated a substantial grant for the purpose, payable in five yearly instalments, beginning in 1933–34. In 1938 the Corporation extended the grant to cover a second five-year period, from 1940 to 1944.

When the Corporation grants ceased in 1944 the Government passed legislation giving statutory existence to the Council, and since 1945 has made an annual grant of £3000 to it. In 1953 the Government grant was raised to £4,000. The Corporation has continued to show an interest in the work of the Council, and from time to time has made smaller grants for specific purposes.

The Council has concentrated on New Zealand problems, and many of its publications (34 research reports and 14 shorter studies in education) consist of critical surveys on various aspects of New Zealand education and of accounts of outstanding experiments in school practice. The work done under the auspices of the Council has been carried out not only by its own permanent staff but also by part-time investigators.

In addition to its activities as a research organization, the Council acts as a clearing house for information on educational matters.

The Council's activities are under the control of a permanent officer (the Director), who is assisted by a staff of three. There are local Institutes for Educational Research in Auckland, Wellington, Christchurch, and Dunedin.

ADULT EDUCATION; National Council of Adult Education.—In 1938 an Education Amendment Act provided for the establishment of a Council of Adult Education to co-ordinate activities of adult education, to make recommendations to the Minister of Education concerning the amount and distribution of the annual grant, and to receive reports from the bodies to whom grants were made.

The Adult Education Act 1947, which followed largely the recommendations of a Consultative Committee reporting in the same year, abolished the Council and set up a National Council of Adult Education with much wider powers. The functions of the National Council are—

- To promote and foster adult education and the cultivation of the arts; and
- To make recommendations to the Minister of Education as to the amount of the annual grant to be made to the National Council of Adult Education out of moneys appropriated by Parliament for the purpose, and to receive, administer, and control the expenditure of such moneys granted.

The National Council has power to appoint staff and to impose conditions on grants made by it. The full-time executive officer of the Council, the National Secretary of Adult Education, is located in Wellington. The National Council comprises the Director of Education, the Director of Broadcasting, the Director of the National Library Service, or their representatives; one member appointed by the Senate of the University of New Zealand; two members appointed by each of the four University Colleges; one member appointed by the Dominion Council of the Workers' Educational Association; one member appointed by the Minister of Education to represent the Maori race; and up to two members appointed by the Council itself.

Regional Councils of Adult Education.—Staff for field work in adult education is employed by the Councils of the four constituent colleges of the University of New Zealand. Each College Council has the advice of a Regional Council of Adult Education, to which certain of the powers of the College Council are delegated. The four Regional Councils are differently constituted, but the 1947 Act requires that at least one-half of the members shall be persons appointed on the nomination of voluntary associations or organizations engaged or interested in adult education in the district. In each region the teaching staff consists of a director, "general purpose" tutors, and specialist tutors. The work supervised by the Regional Councils covers a wide range of interests—lecture courses, discussion courses, and various forms of assistance to specially organized groups or groups formed originally for other purposes, in both town and country. An important recent development has been the establishment of the Community Arts Service, which arranges for visits of exhibitions, musicians, and drama and ballet groups to country centres. The Regional Councils also organize short term summer and winter schools in town and country.

Voluntary Agencies.—The tutors, working under the direction of the Regional Councils of Adult Education, offer assistance to a large number of voluntary agencies such as Parent-Teacher Associations, Home and School Societies, Play Centre Associations, and groups concerned with drama, music, and art.

The Country Women's Co-ordinating Committee, representing both the Women's Division of Federated Farmers and the Women's Institutes, organizes classes in rural areas and is supplied with tutors by the Regional Councils.

The Workers' Educational Association operates in conjunction with the University Colleges and organizes classes, mostly one-year classes, in the main cities and in a few of the larger towns. Tutors for these classes are provided by the Regional Councils of Adult Education. The Regional Councils also now conduct much of the country work formerly organized by the Workers' Educational Association. The Workers' Educational Association is financed by grants from the National Council of Adult Education and donations from local authorities, trade unions, and private individuals.

Education of New Settlers.—The large number of new settlers who have come to New Zealand from European countries in recent years has led to the establishment of evening classes for teaching English and what may broadly be called civics. During 1953 some 83 such classes, with an enrolment of over 1,600, were established in fifty-one centres. Special textbooks and other material are being prepared for use by teachers and students.

Community Centres.—In 1938 an experimental Community Centre was established at Feilding under the supervision of two experienced educationists specially appointed to the staff of the Feilding Agricultural High School. Classes have been conducted in drama, child care, literature, art appreciation, and physical welfare, both at the centre and in outlying areas. In 1944 a community centre was opened in a suburb of Christchurch. More recently experimental centres have been opened in Westport, Wakari, Mangakino, and in the coal-mining districts of the Buller. All these receive some assistance, directly or indirectly, from public funds. There are, however, many other community centre schemes supported by voluntary effort.

The Adult Education Act 1947 gave the Minister of Education power to establish or recognize community centres and to make grants to them.

NATIONAL LIBRARY SERVICE.—The establishment of a National Library Service by the Minister of Education in 1945 followed a recommendation by the New Zealand Library Association. The National Library Service has four divisions—the Country Library Service, the School Library Service, the National Library Centre, and the Library School.

Country Library Service.—The Country Library Service, founded in 1938 under the control of the Minister of Education, has been extended through district offices for closer contact with participating libraries. It assists library authorities in country districts and towns with a population of less than 15,000 to give better service. Libraries in towns with a greater population, excluding the four main centres, receive assistance under certain conditions. Free loans of books are made to libraries controlled by local authorities which operate a free service locally and maintain it at a reasonable standard of efficiency. Subscription libraries in country districts—i.e., outside the area of boroughs and town districts—may hire books at the rate of £3 for 50. Seven specially equipped vans, each carrying 1,600–2,000 books covering a wide range, travel over the whole territory so that both free and subscription libraries can make their own exchanges every four months. In between visits books go by post from the headquarter and district offices to libraries requesting them. Hampers of books are sent to isolated groups of readers.

Free public libraries which extend their service to general hospitals in their area receive special collections of books for the use of patients. A library service is given to lighthouses, and a service to Ministry of Works, State Hydro-electric, and New Zealand Forest Service camps has been given since 1949. Tuberculosis patients in sanatoria and in tuberculosis wards of general hospitals are served from a special collection of books built up to meet their particular needs. Mental hospitals receive collections of books which are exchanged regularly. Prisons and borstal institutions receive books and change them on the four-monthly visits of the travelling book vans.

The number of libraries obtaining books from the Country Library Service on 31 March 1953 was as follows: free libraries, 95; subscription libraries, 737; groups, 49; Ministry of Works, State Hydro-electric, and New Zealand Forest Service camps, 51; tuberculosis sanatoria, 19; mental hospitals, 12; hospitals, 12; prisons and borstal institutions, 13. Lighthouse staff receiving a library service numbered 98.

School Library Service.—The launching of the School Library Service, operating on a circulating basis, has been a most important development. This service, which is financed by the Education Department and administered by the Country Library Service, aims at giving children access to the best literature.

At 31 March 1953 the School Library Service was circulating loans of children's books to 2,114 schools, representing 192,668 children. The schools served are primary, intermediate, and district high schools, public and private, outside the four main cities, and include the Education Department's Correspondence School. The public libraries of the main cities receive bulk loans from the Service for circulation to the schools in their area.

A service is also available through which all schools, including post-primary, receive additional books on request. Approximately 104,369 requests were filled during the year ended 31 March 1953.

National Library Centre.—The National Centre is responsible for various bibliographical projects, such as the maintenance of the Union Catalogue, the Union List of Serials and the Index to New Zealand Periodicals, and the development of a National Bibliography. Bibliographies and indexes on special subjects are furnished when required. The Centre's other main functions, developed in conjunction with the Book Resources Committee of the New Zealand Library Association, are concerned with problems of inter-library loan, and book and periodical coverage. The latter project is designed to guarantee that there will be available in the country at least one copy of all books of any consequence published in the English language and to maintain a continuous survey of holdings of books published in the past.

Library School.—The Library School was established in 1946, and at the end of 1952 one hundred and forty-eight students had taken the course.

The school offers professional training to those holding University degrees or with equivalent education. The course lasts from February to November.

Students receive allowances equal to those paid to students of Teachers' Training Colleges.

Short courses for Librarians of smaller libraries were held in 1947, 1948, and 1950. A short course for Librarians of Government Departments was held in 1949, and in the same year the Library School collaborated in holding a short course for teacher-librarians. Since 1952, Part Two of the New Zealand Library Association's General Training Course has been carried out by a five weeks' course at the school.

Chapter 7. SECTION 7—SOCIAL SECURITY, PENSIONS, SUPERANNUATION, ETC.

Table of Contents

[7 A—SOCIAL SECURITY](#)

[7 B—WAR PENSIONS, ETC.](#)

[7 C—SUPERANNUATION](#)

[7 D—NATIONAL PROVIDENT FUND](#)

[7 E—FRIENDLY SOCIETIES](#)

7 A—SOCIAL SECURITY

DEVELOPMENT.—The Social Security Act 1938, which came into operation on 1 April 1939, may be said to have as its principal aim the provision for payment of superannuation and other benefits designed to safeguard the people of New Zealand from disabilities arising from age, invalidity, widowhood, orphanhood, unemployment, sickness, or other exceptional conditions. Its two main objectives were—

- To substitute for the previous system of non-contributory civil pensions a system of monetary benefits on a contributory basis;

- The inauguration of a system of medical and hospital benefits and of other related benefits.

The various classes of pensions, etc., which were superseded by monetary benefits of similar application were old-age pensions, widows' pensions, Maori War pensions, miners' pensions, invalidity pensions, and family allowances, while the unemployment benefit replaced the system of sustenance payments previously in force. A brief history of the introduction of the principal classes of pensions superseded by the social security scheme, and of the former Pensions Department which administered them, is given on pages 451–452 of the 1947–49 issue of the Year-Book. In addition, four new classes of monetary benefits were inaugurated—the orphan's benefit, the sickness benefit, the emergency benefit (for cases of hardship), and the universal superannuation benefit.

The Social Security Amendment Act 1945 introduced a further important addition to the social legislation of New Zealand. It established the principle of universal family benefits, and from 1 April 1946 each mother receives a benefit in respect of each of her dependent children irrespective of the family income or property.

A further development in 1948 occurred with the passing of legislation providing for reciprocity of social security benefits with Australia, and reciprocity in relation to family benefits with Great Britain and Northern Ireland. The respective Acts were entitled the Social Security (Reciprocity with Australia) Act 1948, the Family Benefits (Reciprocity with Great Britain) Act 1948, and the Family Benefits (Reciprocity with Northern Ireland) Act 1948.

The first mentioned of these three Acts repealed the Age Benefits and Invalids' Benefits (Reciprocity with Australia) Act 1943, and came into force on 1 July 1949. In the 1948 Act the classes of benefits were extended and now cover the following: age-pensions and age benefits, invalid pensions (including wives' and children's allowances) and invalids' benefits, widows' pensions and widows' benefits, child endowment and family benefits, unemployment benefits, and sickness benefits.

ADMINISTRATION.—The Social Security Act 1938 established a Department of State entitled the Social Security Department, under the control of a Commission consisting of not more than three members. The Department administers, under the direction of the Minister of Social Security, Part I of the Act dealing with those monetary benefits to which reference has been made, while Part II of the Act, dealing with medical, hospital, and other related benefits, is administered by the Health Department under the direction of the Minister of Health. Provision was made in the Social Security Amendment Act 1947 for the Social Security Commission, with the written consent of the Minister of Social Security, to delegate to any Registrar or other officer of the Department any of its powers under Part II of the principal Act.

The War Pensions Act 1943 (which consolidated and amended the previously existing legislation on the subject) and the War Pensions and Allowances (Mercantile Marine) Act 1940 are also administered by the Social Security Department, one of whose officers is also designated Secretary for War Pensions. It should be noted, however, that, unlike the benefits under the Social Security Act which are paid from the Social Security Fund (referred to later), war pensions are paid through the Consolidated Fund from general taxation.

FINANCIAL PROVISIONS.—Finance to enable the provisions of the Act to be carried out is provided for by the establishment within the Public Account of the Social Security Fund. The principal revenue of the Fund is derived from a charge (collected by the Inland Revenue Department) on salaries, wages, and other income, including the income of companies, but the Act also makes provision for the payment to the Fund of such other moneys as may be appropriated by Parliament from time to time, and a substantial amount has been received from the Consolidated Fund each year.

The social security charge, which had been at the rate of 1d. for every 1s. 8d. or part thereof of income since the inception of the scheme, was increased in 1946 to 1d. for every 13½d. or part thereof—i.e., 1s. 6d. in the pound. The increase, in the case of salaries and wages, became effective from and including 13 May 1946, while "other" income received during the year ended 31 March 1946 was subject to the increased rate.

A registration fee formerly payable (5s. per annum for females and males between sixteen and twenty years of age, and 5s. per quarter for males over twenty years of age) was abolished as from 1 April 1946.

In the case of salaries and wages the amount of the charge is deducted by the employer or other person by whom the wages or salaries are paid, while the charge on other income is payable by the recipient in equal instalments on 7 June and 7 November in the year following the financial year in which the income was derived.

Receipts.—Receipts of the fund for the financial years 1948–49 to 1952–53 are given in the following table.

	1948–49	1949–50	1950–51	1951–52	1952–53
	£	£	£	£	£
Fees and fines	125	285	201	74	792
Charge on salaries and wages	16,744,529	18,766,780	20,650,975	24,318,138	26,650,922
Charge on company and other income	12,633,856	12,935,790	15,115,261	19,294,730	18,857,016
Grants from Consolidated Fund (Social Security Act)	15,000,000	12,000,000	14,000,000	14,000,000	14,000,000
Maintenance recoveries against defaulting husbands ^a	64,104	65,273	66,900	73,555	78,429
* Includes for some years small amounts which are not chargeable against the amounts paid out under the heading of widows' benefits.					

	1948-49	1949-50	1950-51	1951-52	1952-53
Interest on investments	137	17,698	7,082	4,946	19,909
Reciprocity arrangements - Recoveries from Australian Government			1,860	3,428	3,414
Other receipts	57,714	52,357	40,110	86,795	17,754
Total revenue	44,500,465	43,838,183	49,882,389	57,781,666	59,628,236

* Includes for some years small amounts which are not chargeable against the amounts paid out under the heading of widows' benefits.

Payments.—Particulars of payments during the same five financial years are contained in the next table.

	1948-49	1949-50	1950-51	1951-52	1952-53
Monetary benefits—	£	£	£	£	£
Superannuation	1,850,079	2,179,365	2,336,275	3,144,091	5,564,629
Age	13,790,971	15,133,751	17,150,839	19,235,326	19,901,303
Widows'	1,910,459	2,159,651	2,142,232	2,230,635	2,157,115
Orphans'	27,625	31,176	33,061	33,667	35,404
Family	14,242,203	14,850,959	15,289,346	16,110,297	16,854,261
Invalids'	1,348,616	1,397,713	1,429,276	1,476,281	1,416,561
Miners'	113,659	120,061	125,189	127,619	121,636
Maori War	10	2			
Unemployment	8,947	10,402	5,355	3,914	3,187
Sickness	911,107	1,008,651	1,042,050	1,128,804	1,062,176
Emergency	251,409	280,155	292,069	365,181	340,625
Total, monetary benefits	34,455,083	37,171,886	39,845,692	43,855,815	46,646,897
Medical benefits—					
Medical	2,306,881	2,524,290	2,661,166	2,760,583	3,047,202
Hospital	1,997,375	2,011,649	2,018,963	2,112,494	2,135,218
Maternity	916,120	871,386	885,316	884,781	919,422
Pharmaceutical	1,793,159	2,043,843	2,097,000	2,428,216	3,015,833
Supplementary	861,913	1,009,941	1,060,938	1,181,953	1,310,922
Total, medical benefits	7,875,448	8,461,109	8,723,383	9,368,027	10,428,597
Reciprocity benefits—					
Australia		1,715	3,050	3,730	4,967
Great Britain			33	41	23
Balance of maintenance moneys	580	263	117	33	
Other payments	95	6,641			
Administration expenses	729,259	783,822	848,486	950,405	957,558
Special assistance			2,192	21,287	
Bonus				767,115	
Total payments	43,040,465	46,425,436	49,420,761	54,180,243	58,826,444
Balance of Fund at end of year	8,681,918	6,094,665	6,556,293	10,157,716	10,959,508

MONETARY BENEFITS.—A brief description of the main provisions relating to the various monetary benefits under Part II of the Act is now given. The rates prescribed for several of the benefits under the principal Act were increased by way of bonus to the extent of 5 per cent of the maximum rate payable in each case, as from 1 May 1942. The Social Security Amendment Act 1943, however, superseded these bonuses with permanent increases as from 1 July 1943, and further increases were granted in most benefits as from 1 October 1945. The Social Security Amendment Act 1947 provided for a further increase in the rate of benefits payable, the effective date being as from 1 October 1947. The same amendment gave the Commission power to continue superannuation, family, and miners' benefits without review for a period longer than the twelve months to which it was previously restricted. Other benefits subject to a means test may not be granted, or renewed for a period exceeding twelve months, without further investigation as to changes in circumstances. The Social Security Amendment Act 1949 also provided for an increase in the basic rates of monetary benefits as from 1 June 1949. On 2 June 1950 the Government announced that, in consideration of the effect of the removal of certain subsidies, it had decided to increase social security benefits by a flat cost-of-living bonus representing a 5 per cent increase, or 2s. 6d. per week for single beneficiaries and 5s. per week for married couples, on existing rates. Benefits affected with retrospective payments as from 8 May 1950, were age, invalids', miners', orphans', widows', sickness, unemployment, and emergency benefits. An earlier announcement (22 December 1949) stated that the amount of allowable income that could be earned by a beneficiary without affecting the benefit was to be increased from £1 to £1 10s. per week. This concession applies to age, invalids', and sickness benefits. These increases were later incorporated in the Social Security Amendment Act 1950. This Act also provided that the reduction in the basic rates of benefit on account of accumulated property in those cases where it applied (age benefits and invalids' benefits) was to be £1 for every £15 of value instead of £1 for every £10 as formerly. Further increases ranging from 2s. 6d. to 5s. per week for recipients of social security benefits who are not generally in regular employment were made from 15 February 1951 and validated by the 1951 amendment to the Act, while from 15 September 1951 an increase of 10s. per week was made for all basic social security benefits. The rates quoted hereunder take recent increases into account and are those at present in force (January 1954).

The following payments, authorized by the Finance Act 1951, were made by way of cash bonus to certain social security beneficiaries and others during the year 1951. An amount of £2,045,273 was paid in accordance with the proposal of the Government announced on 16 December 1950 to pay a Christmas bonus of £10 to certain social security beneficiaries and war pensioners. For superannuaries and others of that class whose income during the year ended 31 December 1950 did not exceed £226 for a single person or £374 for married persons, payments of £10 and £20 respectively were also made, with proportionately lesser amounts as the gross income increased until at £236 and £394 the bonus payments ceased. The amount paid out under the latter arrangement totalled £148,669. A family bonus of £5 per child was paid in respect of children for whom the family benefit (or a pension benefit in lieu of family benefit) was payable at 30 June 1951. The amount involved under this heading was £3,078,910.

A special bonus of £5 to unmarried persons and £10 to married couples was paid to certain social security beneficiaries and war pensioners for Christmas 1952. Expenditure on this bonus to 31 March 1953 totalled £859,905, of which £767,115 was paid to social security beneficiaries. A further bonus of £10 for unmarried persons and £20 for married couples was paid at Christmas 1953.

Payments of benefits, other than invalids' or miners' benefits for which separate provision had been made earlier, during temporary absence from New Zealand was made permissible at the Commission's discretion by the Finance Act (No. 2) 1948.

Persons employed outside New Zealand will be deemed to be resident in New Zealand if employed on Government business, and may be so deemed at the Commission's discretion if employed otherwise, for the purposes of Part II of the principal Act, where liable for the payment of social security charge on their earnings. In each case the wife and children are also included. The 1950 amendment provided that persons employed by the Governments of Western Samoa and the Cook Islands are exempted from payment of the social security charge unless they remain ordinarily resident in New Zealand.

A person who is in receipt of a war disablement pension or a basic war widows' pension may be granted any social security benefit.

Superannuation Benefits.—Every person over the age of sixty-five years who satisfies the prescribed residential qualifications is entitled to a superannuation benefit without conditions as to income or property. The universal superannuation benefit is, however, regarded as assessable income for income-tax purposes but is exempt from the social security charge. The residential qualifications are contained in section 12 of the Act, which reads as follows:—

1. (No person shall be entitled to a superannuation benefit under this Part of this Act unless he satisfies the following conditions, namely,—

a. In the case of a person who was resident in New Zealand on the fifteenth day of March, nineteen hundred and thirty-eight (being the date of the passing of the Pensions Amendment Act 1937), that he has resided continuously in New Zealand for not less than ten years immediately preceding the date of his application for a superannuation benefit:

b. In any case to which the last preceding paragraph does not apply, that he has resided continuously in New Zealand for not less than twenty years immediately preceding the date of his application for a superannuation benefit.

2. For the purposes of the last preceding subsection, continuous residence in New Zealand shall not be deemed to have been interrupted by absence therefrom—

a. In any case to which paragraph (a) of the last preceding subsection applies—

i. If the total period of absence from New Zealand does not exceed one year; or

ii. If the total period of absence from New Zealand exceeds one year but does not exceed that period by more than six months for every year of residence in New Zealand in excess of a period of ten years, and the applicant has been actually resident in New Zealand for the twelve months immediately preceding the date of his application;

b. In any case to which paragraph (b) of the last preceding subsection applies—

i. If the total period of absence from New Zealand does not exceed two years; or

ii. If the total period of absence from New Zealand exceeds two years but does not exceed that period by more than six months for every year of residence in New Zealand in excess of a period of twenty years, and the applicant has been actually resident in New Zealand for the twelve months immediately preceding the date of his application.

Provision is also made to cover absence by a seaman serving on board any ship registered or owned in New Zealand and absence in any capacity as a member of any of Her Majesty's Forces.

A superannuation benefit is not payable in addition to any other benefit or war pension. For example, a superannuation benefit and an invalid's benefit cannot be paid to the one person. Similarly, a superannuation benefit and an age benefit are not payable to the one person. If a beneficiary in receipt of a superannuation benefit is later granted an age benefit, the maximum benefit payable is £175 10s., the amount of the superannuation benefit being merged in the amount of the age benefit granted.

At the date of commencement on 1 April 1940, and for the remainder of the year, the rate of benefit was £10 per annum, thereafter being increased by £2 10s. per annum. As from 1 October 1951, however, the amount payable for the balance of the year 1951-52 was raised from £37 10s. to £75 per annum, this amount increasing by £5 per annum on 1 April of each succeeding year until the amount equals the full rate payable under the Act.

The number of superannuation benefits in force at 31 March 1953 was 71,961, an increase of 2,828 above the total for the previous year. Expenditure on these benefits rose from £3,144,091 in 1951-52 to £5,564,629 in 1952-53.

Age Benefits.—Every person who has attained the age of sixty years is entitled to receive an age benefit, subject to satisfying certain qualifications in regard to residence and character. The residential qualifications are the same as those set out under the preceding heading in regard to superannuation benefits. The character qualifications mainly relate to desertion of wife or husband or willful failure in the case of a married man or widower to provide adequate maintenance for wife or for children under sixteen years of age.

The basic rate of the benefit is £175 10s. per annum, subject to certain deductions on account of income or accumulated property, etc. Particulars of additions to and deductions from the basic rate are as follows:—

Unmarried applicants: The basic rate is reduced by £1 for every complete £1 of income in excess of £78 per annum.

Married applicants: Where husband and wife are both entitled to the benefit the basic rate is reduced by 10s. for every complete £1 of their combined incomes in excess of £78 per annum. In cases where only one of them is entitled to the benefit the reduction is at the rate of £1 for every complete £1 of their total income (excluding a family benefit) in excess of £253 10s. per annum. A further provision allows of an extra payment, not exceeding £175 10s. per annum, to a male recipient when his wife is ineligible for any benefit under the Act. This is payable only up to a limit of the total income of the couple plus benefit of £429 per annum.

For the above purposes, income is deemed not to include amounts received by way of war disablement pension or basic war widow's pension.

Age beneficiaries are entitled to surrender their benefits while their earnings are excessive and to apply for reinstatement immediately the employment ceases. The earnings received during the period that both husband and wife were not in receipt of age benefits are not taken into account.

An age beneficiary on attaining the age of sixty-five years is entitled to an increase in his allowable income of £6 10s. per annum for each complete year after attaining the age of sixty years during which he did not receive the benefit but was otherwise eligible so to do. The maximum allowable income under this provision is £110 10s. per annum. Appropriate adjustments are made to apply the same provision to a beneficiary whose benefit is reduced by reason of accumulated property, so as to place him in an equivalent position—i.e., the amount of reduction may be diminished by £6 10s. for each year of deferment.

During 1952-53, 3,376 beneficiaries received additional benefit on account of the deferment concession. The periods of deferment were: one year, 334; two years, 324; three years, 390; four years, 397; and five or more years, 1931.

In computing the allowable income of any woman no account is to be taken of her personal earnings from domestic service in a private home up to £78 per year, provided that such earnings together with other allowable personal income does not exceed £156 per annum.

In addition to the foregoing, a special allowance not exceeding £13 13s. per annum may be paid to any person in receipt of an age benefit who served as a member of a New Zealand contingent in connection with the South African War or in any of Her Majesty's Forces in that war if he had been born in New Zealand or was domiciled therein at the commencement of the war. Provided that an allowance shall not be granted under this section of such an amount that the total amount from all sources (including the value of any benefits in kind) received by the beneficiary in any year shall exceed the sum of £253 10s.

The Commission may also, in its discretion, increase by an amount not exceeding £26 per annum the rate of any benefit under Part II of the Act (including the age benefit) payable to any beneficiary who was one of the parents of a deceased member of any of Her Majesty's Forces established in New Zealand whose death was attributable to service with the Forces. Similar powers exist in respect of a parent of a deceased member of the New Zealand Mercantile Marine within the meaning of the War Pensions and Allowances (Mercantile Marine) Act 1940 whose death was attributable to the Second World War. The provision also covers from 1 April 1949 the case of a deceased member of any Force or of the Mercantile Marine of any part of the British Commonwealth other than New Zealand who was domiciled in New Zealand at the commencement of the Second World War and whose death was directly attributable to that war. At 31 March 1953 there were 2,093 of these allowances in force, a decrease of 34 over the corresponding 1952 total.

In addition to the deductions on account of income set out above, the rate of the benefit is reduced by £1 for every £15 (this amount was raised from £10 by the 1950 amendment to the Act) of net capital value of accumulated property in excess of £500. The net accumulated property of a husband or wife for this purpose is half of the total net accumulated property of both.

In computing the net capital value of property no account is taken of the following, but any income derived therefrom is charged as income:—

1. Any interest in land or house property, or mortgage or other encumbrance over such property;
2. Any interest in any annuity or in any policy of life assurance;
3. Any furniture used in the home of the applicant or any personal effects belonging to the applicant.

Income from a property and the value of the same property are not both charged to reduce the age benefit—e.g., if shares worth £600 produce an income of £30 per annum, either the value of the shares or the income therefrom may be charged, whichever method provides for the greater reduction.

Where an applicant for an age benefit is totally blind the rate of the benefit together with any benefits and allowances payable to or in respect of the wife or husband of the applicant, is not to be less than the total of benefits and allowances that would have been paid if the applicant had been eligible for an invalid's benefit.

The number of age benefits in force at 31 March 1953 was 123,104, a decrease of 2,671 over the figure at the end of March 1952. The 1953 total was inclusive of 6,941 husbands receiving benefits on account of dependent wives who were not eligible for benefits in their own right, and of 376 males receiving the additional allowance of £13 13s. per annum paid to veterans of the South African War. Expenditure on age benefits decreased from £19,235,236 in 1951-52 to £19,091,303 in 1952-53.

The following table shows the estimated age distribution of (a) persons who were granted new age benefits during the calendar year 1952 (including transfers from widows' and invalids' benefits), and (b) total age beneficiaries at 31 December 1952.

Age, in Years	Persons Granted New Age Benefits During 1952			Total Age Beneficiaries at 31 December 1952		
	Males	Females	Total	Males	Females	Total
60 ¹	770	2,470	3,240	432	1,403	1,835
61	390	430	820	1,034	2,763	3,797
62	240	380	620	1,476	3,375	4,851
63	210	220	430	1,666	3,386	5,052
64	220	210	430	1,856	4,249	6,105
Totals, 60-64	1,830	3,710	5,540	6,464	15,176	21,640
65-69	900	640	1,540	14,102	19,984	34,086
70-74	520	300	820	13,731	18,341	32,072
75 and over	230	170	400	15,259	21,166	36,425
Totals	3,480	4,820	8,300	49,556	74,667	124,223

* The majority of persons granted new age benefits at age sixty have attained the age of sixty-one years by the following 31 December, this serving to account for the smaller numbers in the second portion of the table for age sixty.

Widows' Benefits.—Every widow who is the mother of one or more children under sixteen years of age is entitled to a benefit in respect of widowhood. In addition, any widow not being the mother of children under sixteen years of age who satisfies the following conditions is also entitled to the benefit:—

1. A widow who has had one or more children, provided that the duration of her marriage was not less than fifteen years or, in the alternative, that the aggregate of the period of the duration of her marriage and any subsequent period during which she had the care of at least one of her children under sixteen years of age was not less than fifteen years;

2. A widow who, on the expiration of not less than five years after the date of her marriage, became a widow after she attained the age of fifty years;

3. A widow of not less than fifty years of age who became a widow after she had attained the age of forty years, provided that the duration of her marriage was not less than ten years and that not less than fifteen years have expired since the date of her marriage.

It will be noted that no widow under fifty years of age who has not had one or more children can qualify for the benefit.

Provision is also made for other classes of women (not being widows) to receive benefits as if they were widows. Particulars are as follows:—

a. Any married woman who satisfies the Commission that she has been deserted by her husband and that she has taken proceedings against him for a maintenance order under the Destitute Persons Act 1910. Either the beneficiary or the Commission may institute and prosecute proceedings for the enforcement of the order, or for an order cancelling, varying, or suspending the maintenance order. Any moneys paid by a husband, whether by

way of maintenance order or otherwise, are set off against any benefit so granted:

- b. Any married woman in respect of whose husband a reception order is in force under the

Mental Defectives Act 1911 (whether or not he is detained in an institution under the Act), or whose husband is for the time being detained in an institution under that Act, whether as a voluntary boarder or otherwise.

The two paragraphs which follow also apply in such cases, reference to the date of death being deemed to be reference to the date of desertion by the husband or to the making of a reception order

Except in the case of widows with one or more children under sixteen years of age, no widow is entitled to receive a widow's benefit unless she and her husband were both resident in New Zealand for not less than three years immediately preceding the death of the husband or, unless either of them, being ordinarily resident in New Zealand at the date of the husband's death, has resided continuously in New Zealand for not less than five years.

The term "children" does not include any child born out of New Zealand unless at least one of the following conditions is satisfied—namely, that—

- a. The mother of the child was only temporarily out of New Zealand at the time of its birth; or
- b. Both parents were resident in New Zealand for the three years immediately preceding the date of the death of the husband of the applicant; or
- c. One of the parents, being ordinarily resident in New Zealand at the date of the husband's death, has resided continuously in New Zealand for not less than five years.

The term "child" includes a step-child or a child adopted during the lifetime of the husband of the applicant (in cases where the husband is dead) or adopted while the husband and wife were living together (in cases of desertion, etc.). It may also (at the discretion of the Commission) include any child who is being maintained by the applicant or was at any time maintained by the husband of the applicant.

No woman shall be entitled to receive a widow's benefit unless the Commission is satisfied that she is of good moral character and sober habits.

The rates of widows' benefits payable are—

- 1. Widows with a child or children under sixteen years of age, £175 10s. per annum;
- 2. Widows without dependent children, £175 10s. per annum.

In addition to the benefit payable to a widow with dependent children under sixteen years of age, she is entitled to receive a mother's allowance at the rate of £117 per annum.

Any income received, exclusive of war disablement or basic war widow's pension, is taken into account in computing the benefit payable, and where such income exceeds £78 the annual rate of benefit is reduced by £1 for every complete £1 of such excess. The maximum of income plus benefit in the case of a widow with dependent children is £370 10s. per annum, and in the case of a widow without dependent children £253 10s. per annum. A widow with dependent children will, of course, receive in addition the universal family benefit of 10s. per week for each child.

The provision relating to the allowable income of £78 per year gained from domestic service in a private home without affecting the amount of the benefit payable to women age-beneficiaries also applies to widows' benefits.

Where there are no dependent children, the benefit of widows attaining the age of sixty years is also reducible by £1 for every complete £15 of the accumulated property in excess of £500 computed as if she were an applicant for age benefit. Widows' benefits cease on remarriage.

At 31 March 1953 there were 12,026 benefits in force, a decrease of 341 during the year. Expenditure totalled £2,157,115 in 1952-53, compared with £2,230,635 in 1951-52. Offset against these amounts were the sums of £78,429 and £73,522 respectively, being recoveries of maintenance from defaulting husbands.

The following table affords an analysis of widows' benefits in force at 31 March 1953.

—	With Dependent Children	Without Dependent Children	Total
Widows	4,014	6,932	10,946
Deserted wives	628	359	987
Wives of mental hospital patients	57	36	93
Totals	4,699	7,327	12,026

Orphans' Benefits.—A benefit in respect of complete orphanhood is payable in the case of a child under sixteen years of age who was born in New Zealand or whose last surviving parent was resident in New Zealand for a period of not less than three years preceding the date of his or her death. A step-child or an adopted child comes within the definition of the term, and payment may be made to any person for the time being having the care and control of the child. No payment is made on account of any orphan maintained in a State institution, but payment may be made to the governing bodies of homes and orphanages of religious or other organizations.

The amount payable as an orphan's benefit is limited to a maximum of £78 per annum less any income received by or for the benefit of the orphan, but a lesser amount may be granted if it is considered that the circumstances of the case warrant it. In any case where the income of the orphan falls below £26 per annum application may be made for a family benefit of 10s. a week in lieu of orphan's benefit. For the purpose of assisting in the further education of any child, the Commission may continue or grant the benefit until the end of the year in which the child reaches the age of eighteen years.

The number of benefits in force at the end of March 1953 was 314 (in respect of 417 children), a decline of 10 during the year. Expenditure increased from £33,667 in 1951-52 to £35,804 in 1952-53.

Family Benefits.—As from 1 April 1946 the father or mother of any child or children under sixteen years of age may apply for a family benefit, irrespective of the income or property of the parents or children. Prior to 1 April 1946 family benefits were payable subject to a means test.

The rate of the benefit is 10s. per week for each child, and in every case is paid to the mother of the children, unless in special circumstances the Commission considers that it should be paid to the father or to some other person for the benefit of the children.

If a beneficiary in receipt of an age or other monetary benefit is the parent of dependent children, payment in respect of the children is made by way of a separate family benefit.

The term "children" includes step-children and adopted children, but does not include—

- a. Any child who has attained the age of sixteen years unless such child is continuing its education as a full-time day pupil at a school or college, in which case the Commission may grant or continue the benefit until it reaches the age of eighteen years.
- b. Any child who is not in fact maintained as a member of the family of the applicant.
- c. Any child in respect of whom any other benefit is payable under the Act.

The Commission may regard as a member of the applicant's family any child who, although not a child of the applicant, is being maintained as a member of the family. A benefit may also be continued beyond the age of sixteen years in respect of any child who is totally incapacitated from earning a living by reason of some physical or mental defect.

In order to qualify for a family benefit at least one of the following conditions must be satisfied, namely—

- a. The child was born in New Zealand.
- b. The mother of the child was only temporarily absent from New Zealand at the time of its birth.
- c. The Commission is satisfied that the child is likely to remain permanently in New Zealand.
- d. The child has resided continuously in New Zealand for not less than twelve months.

A benefit is not payable in respect of any child committed to the care of the Child Welfare Department nor in respect of any child residing in an institution under the care of the Division of Mental Hygiene of the Health Department. Family benefits are, however, paid to children of a member of any of Her Majesty's Naval, Military, or Air Forces.

A family benefit may be paid in cash, to the credit of the Post Office Savings Bank account of the mother, or to the Commissioner of Inland Revenue to meet the income tax payments of the mother or father. The number of family benefits being paid to Post Office Savings Bank accounts increased from 91,455 at 31 March 1952 to 91,772 at 31 March 1953, and the amount lodged increased from £4,988,472 to £5,140,816. The number of benefits wholly or partly diverted in payment of income tax continued to fall, from 3,507 in 1952 to 3,434 at March 1953, the amount paid in the earlier year being £153,378, as compared with £148,393 during 1952-53.

The total number of benefits in force at 31 March 1953 was 280,747, covering 643,557 children, compared with the corresponding figures of 272,084 and 616,327 at 31 March 1952. Included in the 1952-53 total of children were 10,452 pupils and 86 incapacitated minors over the age of sixteen years. Expenditure increased from £16,110,297 in 1951-52 to £16,854,261 in 1952-53.

The next table gives the number of family benefits in force at the end of March 1952 and 1953, classified according to the number of children receiving the benefit in each case.

Number of Children Receiving Benefit in Each Case	Number of Benefits at 31 March 1952	Number of Benefits at 31 March 1953
1	95,156	95,087
2	86,712	89,461
3	48,803	52,316
4	22,970	24,482

Number of Children Receiving Benefit in Each Case	Number of Benefits at 31 March 1952	Number of Benefits at 31 March 1953
5	9,584	10,196
6	4,457	4,610
7	2,192	2,334
8	1,209	1,188
9	592	619
10 or over	409	454
Totals	272,084	280,747

The average number of children per family in respect of whom benefit was paid was 2.13 in 1946-47, 2.22 in 1949-50, 2.25 in 1950-51, 2.27 in 1951-52, and 2.30 in 1952-53.

Invalids' Benefits.—Subject to certain residential and other qualifications, every person of the age of sixteen years and upwards who is not qualified to receive an age benefit is entitled to an invalid's benefit if he—

- a. Is totally blind; or
- b. Is permanently incapacitated for work as the result of an accident or by reason of illness or of any congenital defect.

The other qualifications referred to are as follows:—

1. That he has resided continuously in New Zealand for a period of not less than ten years immediately preceding the date of his application. Continuity of residence is not deemed to be interrupted where the total period of absence does not exceed twelve months, or does not exceed twelve months by more than one month for every year of residence in New Zealand in excess of ten years, if the applicant has been actually resident in New Zealand for the twelve months immediately preceding the date of his application. In the case of a totally blind person continuous residence is not deemed to be interrupted by absence for the purpose of vocational training or for treatment in respect of the eyes, or in other cases by any period of absence for the purpose of obtaining any special surgical treatment, if the Commission is satisfied that there were good and sufficient reasons for leaving New Zealand to obtain such special treatment.
2. In the case of an applicant in respect of blindness, that he was born in New Zealand or became blind while permanently resident in New Zealand. In the case of every other applicant, that he was born in New Zealand with the condition to which his incapacity for work is attributable, or that he became incapacitated for work by reason of an accident happening in New Zealand or by reason of illness contracted in New Zealand. These restrictions do not apply to any applicant who was actually resident in New Zealand on 4 September 1936 (the date of the passing of the Pensions Amendment Act 1936, which first made provision for invalidity pensions other than for blindness), or to any person becoming resident in New Zealand after that date, who has resided continuously in New Zealand for not less than twenty years immediately preceding the date of his application for a benefit.
3. That incapacity for work was not self-induced or in any way brought about with a view to qualifying for an invalidity benefit.
4. Applicant must be of good moral character and sober habits.

Provision is made for a medical examination, when necessary, to determine the extent of incapacity. In the event of an application being declined on medical grounds, the applicant has the right of appeal, within three months after the decision of the Commission has been communicated to him, to a Board of three medical practitioners nominated by the Department. An invalid's benefit may be paid in respect of a period of absence from New Zealand not exceeding two years in the aggregate, if the Commission is satisfied that such absence was for the purpose of obtaining any special medical or surgical treatment, or in the case of blindness, for the purpose of undertaking vocational training or treatment in respect of the eyes.

The prescribed rates for invalids' benefits, together with the amounts of allowable income, exclusive of war disablement or basic war widows' pensions, are as follows.

Class of Person	Rate of Benefit		Allowable Income	
	Weekly	Yearly	Weekly	Yearly
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Single, under twenty years	2 15 0	143 0 0	1 10 0	78 0 0
Widower with dependent children	3 7 6	175 10 0	1 10 0	78 0 0
Married man	3 7 6	175 10 0	1 0 0	78 0 0
Wife	3 7 6	175 10 0	0 4 17	6 253 10 0
Married woman	3 7 6	175 10 0	0 4 17	6 253 10 0
All other persons	3 7 6	175 10 0	1 0 0	78 0 0

As in the case of other benefits, dependent children are paid for by way of the family benefit at 10s. per week each.

In each case the amount of the benefit is reduced by £1 for every complete £1 of income, exclusive of war disablement or basic war widow's pension, in excess of the amounts stated as allowable. Deductions on account of property are the same as for age benefits, which are described under a previous heading. In computing the income for any blind person no account is taken of personal earnings up to £156 per annum. In addition, personal earnings of such blind persons are subsidized to the extent of 25 per cent so long as the total income, including any benefit received, does not exceed £357 10s. per annum. The maximum invalid benefit payable plus allowable income is £429 per annum.

Where an applicant is a married woman and, by reason of incapacity, necessary nursing or domestic assistance is required to be paid for, the Commission may increase the rate of any benefit which may have been reduced on account of income or property to an amount not in excess of £175 10s. a year, but so that the total income of applicant and husband, inclusive of the benefit, does not exceed £10 5s. per week.

Any person in receipt of an invalid's benefit who, on the attainment of age sixty, becomes entitled to receive an age benefit is required to relinquish his invalid's benefit and is granted an age benefit in lieu thereof, but the aggregate amount payable for a blind beneficiary and his wife (if any) is not altered by this transfer.

Of the 764 new benefits granted in 1952-53, the marital status of the recipients was—single 398, married 251, widowed 33, and divorced, separated, etc., 82. By far the greatest number were aged 50 or over, 370; the numbers for other age groups being as follows: under 20 years, 94; 20 and under 40 years, 140; and 40 years and under 50, 160.

Invalids' benefits in force at 31 March 1953 numbered 8,257, a decrease of 271 on the March 1952 figure, while expenditure fell from £1,476,281 in 1951-52 to £1,416,561 in 1952-53.

Miners' Benefits.—Subject to the qualifications set out hereunder, a miner's benefit is payable to any person who, while engaged as a miner in New Zealand, contracted miner's phthisis and is thereby permanently and seriously incapacitated for work, or to any person who contracted, while engaged as a miner in New Zealand, any other occupational or heart disease and is thereby

permanently and totally incapacitated for work. The term "miner's phthisis" means pneumoconiosis and includes tuberculosis of the lungs or any other disease of the respiratory organs commonly associated with, or a sequel to, pneumoconiosis. The necessary qualifications are—

- a. Employment as a miner in New Zealand for not less than two and a half years;
- b. Continuous residence in New Zealand for not less than five years immediately preceding the date of his application for a benefit. Continuity of residence is not deemed to have been interrupted by occasional absences aggregating not more than six months;
- c. Good moral character and sober habits and must not have deserted or wilfully failed to provide for his wife and children during the period of five years immediately preceding the date of application;
- d. That compensation under the Workers' Compensation Act in respect of the same disability is not being received.

The rates of miners' benefits are £3 7s. 6d. per week or £175 10s. per annum, increased by £3 7s. 6d. per week, or £175 10s. per annum, for a wife. Dependent children under sixteen years are paid for by way of family benefit at the rate of 10s. per week each.

There is no reduction in the benefit on account of the income or property of the applicant and/or his wife.

Provision is made for medical examination where necessary to determine whether the applicant is permanently incapacitated for work, or the extent of his incapacity.

A special provision is made for the payment from the Social Security Fund of a reasonable contribution towards the funeral expenses of any person who dies while in receipt of a miner's benefit. The amount to be paid is at the discretion of the Commission.

If a person in receipt of a miner's benefit dies leaving a widow, such widow is entitled to a benefit of £2 15s. per week, or £143 per annum, during widowhood. This benefit is payable regardless of the circumstances of the widow, her income or property not being considered in the granting of a benefit.

Payment of benefits is not affected by a period of absence from New Zealand not exceeding two years in the aggregate.

Miners' benefits in force at 31 March 1953 numbered 528, 34 fewer than at the corresponding date in 1952. During 1952-53 the expenditure on this class of benefit was £121,636, compared with £127,619 in 1951-52.

Unemployment Benefits.—Subject to the conditions set out below, every person over the age of sixteen years who is not qualified to receive an age benefit is entitled to a benefit in respect of unemployment. An applicant is required to satisfy the Commission in respect of the following:—

- a. That he is unemployed;

b. That he is capable of undertaking and is willing to undertake suitable work:

c. That he has taken reasonable steps to obtain suitable employment:

d. That he has resided continuously in New Zealand for not less than twelve months.

An applicant is not payable in respect of the first seven days of any period of unemployment, except in special circumstances. In addition, the Commission may postpone, for a period not exceeding six weeks, the commencement of the benefit, or it may terminate the benefit in any of the following circumstances:—

a. If the applicant has voluntarily become unemployed without good and sufficient reason:

b. If the applicant has lost his employment by reason of any misconduct as a worker:

c. If the applicant or beneficiary has refused or failed, without a good and sufficient reason, to accept any offer of suitable employment:

d. In the case of a seasonal worker, if his earnings for the season are sufficient for the maintenance of himself and his family notwithstanding a period of temporary unemployment.

Unemployment benefits are payable in accordance with the following scale.

	Weekly Benefit		
	£	s	d.
To applicants sixteen and under twenty years without dependants	2	5	0
To all other applicants	3	7	6
In respect of the applicant's wife	3	7	6

Dependent children are paid for by way of family benefit at the rate of 10s. per week each.

The benefit is payable so long as the beneficiary is unemployed or until he becomes eligible to receive another class of benefit, other than a family benefit—e.g., an age benefit.

A married woman is entitled to receive the benefit only if her husband is unable to maintain her. If a beneficiary is not receiving a benefit in respect of a wife, an allowance may be made in respect of any person who has the care of his home.

The foregoing rates of benefits may be reduced, having regard to the income received or the property owned by the applicant or his wife.

The number of applications for unemployment benefits dealt with during the years ended 31 March 1952 and 1953 were 176 and 199 respectively, 81 persons being granted a benefit in 1951–52, and 125 in 1952–53. At the end of March 1953, 8 benefits were in force, compared with 2 at the end of the previous year. Expenditure for the year 1952–53 amounted to £3,187, as against £3,914 in 1951–52.

Sickness Benefits.—Every person over the age of sixteen years who has resided continuously in New Zealand for not less than twelve months and who satisfies the Commission that he is temporarily incapacitated for work through sickness or accident, and that by reason thereof he has suffered a loss of salary, wages, or other earnings, is entitled to a sickness benefit. The amount of the benefit is limited to the amount by which the weekly earnings of the applicant have been reduced by reason of his incapacity or to a maximum of £6 15s. a week payable to a man and his wife. Where a person is engaged in business on his own account and by reason of sickness or accident is obliged to employ a substitute during the period of incapacity, the remuneration paid to the substitute is regarded as loss of earnings. Every application for a benefit must be supported by a medical certificate, and no benefit is payable for the first seven days of incapacity except under special circumstances.

A married woman shall be entitled to receive a benefit under this section only if the Commission is satisfied that her husband is unable to maintain her.

Subject to the foregoing remarks concerning amount of benefit, the rates of sickness benefits shall be computed as follows:—

a. In the case of an applicant under twenty years of age without dependants, the benefit shall be at the rate of £2 5s. a week.

b. In every other case the benefit shall be at the rate of £3 7s. 6d. a week, increased (in the case of an applicant with a wife) by £3 7s. 6d. a week in respect of his wife.

Any applicant who is maintaining a home and who is not drawing a benefit in respect of a wife, may receive a benefit at a rate not exceeding that for a wife, in respect of any person who has the care of his home.

Dependent children are paid for by way of family benefit.

The rate of benefit computed as aforesaid is reduced by 1s. for every complete shilling of the total income, exclusive of war disablement or basic war widows' pensions, of the applicant and of his wife or her husband, as the case may be, in excess of £1 10s. a week or, in any case where the applicant or his wife or her husband, as the case may be, is in receipt of a sick benefit from a friendly society or a like benefit from any other source, in excess of £2 10s. a week.

The number of applications for sickness benefits dealt with during the years ended 31 March 1952 and 1953 were 29,293 and 29,350 respectively. The number of persons granted sickness benefits were 26,820 in 1951–52 and 26,741 in 1952–53. Benefits in force at 31 March 1953 totalled 4,376, compared with 4,569 at the end of March 1952. Total expenditure for 1952–53 amounted to £1,062,176, a decrease of £66,628 on the 1951–52 figure.

In the following table sickness benefits which ceased during the year ended 31 March 1953 are shown according to the duration of the sickness benefit.

Duration of Sickness Benefit (Weeks)	Number of Benefits		
	Males	Females	Total
1–4	10,529	2,272	12,801
5–12	6,431	1,759	8,190
13–25	2,310	874	3,184
26–52	1,174	443	1,617
53 and over	667	302	969
Totals	21,111	5,650	26,761

The following table gives a classification of sickness benefits according to the disease suffered by the beneficiary. The data are estimates based on 92 per cent of the benefits which ceased during the calendar year 1952.

Disease or Injury	Males	Females
Infective and Parasitic Diseases—		
Tuberculosis of the respiratory system	600	267
Tuberculosis, other forms	102	45
Mumps	904	132
Infectious hepatitis	208	37
Other	556	163
Neoplasms—		
Malignant neoplasms	106	29
Neoplasms of lymphatic and haematopoietic tissues	34	5
Benign neoplasms	143	110
Neoplasms of unspecified nature	117	35
Allergic, Endocrine System, Metabolic, and Nutritional Diseases—		
Asthma	213	65
Other allergic disorders	19	7
Diseases of the thyroid gland	47	69
Diabetes mellitus	72	17
Diseases of other endocrine glands	3	8
Avitaminoses and other metabolic diseases	53	8
Diseases of the Blood and Blood-forming Organs—		
Anaemia	50	76
Other diseases of the blood and blood-forming organs	14	3
Mental, Psychoneurotic, and Personality Disorders—		
Psychoses	71	51

Disease or Injury	Males	Females
Psychoneurotic disorders	623	493
Disorders of character, behaviour, and intelligence	26	9
Diseases of the Nervous System and Sense Organs—		
Vascular lesions affecting, and inflammatory and other diseases of, the central nervous system	273	69
Diseases of nerves and peripheral ganglia, excluding sciatica	137	29
Sciatica	201	20
Diseases of the eye	208	35
Diseases of ear and mastoid process	125	40
Diseases of the Circulatory System—		
Rheumatic fever	96	44
Chronic rheumatic, arteriosclerotic, degenerative, and other diseases of the heart	703	69
Hypertensive disease	147	62
Varicose veins and haemorrhoids	522	60
Other diseases of the circulatory system	163	41
Diseases of the Respiratory System—		
Acute upper respiratory infections	262	89
Influenza	1,158	229
Pneumonia	786	92
Bronchitis	637	128
Other diseases of the respiratory system	704	163
Diseases of the Digestive System—		
Diseases of buccal cavity and oesophagus	77	16
Diseases of stomach and duodenum	859	74
Appendicitis	866	394
Hernia of abdominal cavity	735	17
Other diseases of intestines and peritoneum	332	98
Diseases of liver, gallbladder, and pancreas	196	99
Diseases of the Genito-urinary System—		
Nephritis and nephrosis	142	28
Other diseases of urinary system	212	90
Diseases of the genital organs	299	231
Deliveries and Complications of Pregnancy—		
Childbirth and puerperium		454
Diseases of the Skin and Cellular Tissue—		
Infections of skin and subcutaneous tissue	374	71
Other diseases of the skin and subcutaneous tissue	539	135
Diseases of Bones and Organs of Movement—		
Arthritis and rheumatism, except rheumatic fever	959	213
Osteomyelitis and other diseases of bones and joints	555	77
Other diseases of musculoskeletal system	229	116
Congenital Malformations—		
Congenital malformations	70	19
Symptoms, Senility, and Ill-defined Conditions—		
Symptoms referable to systems and organs	525	97
Senility and ill-defined diseases	229	168
Accidents, Poisonings, and Violence (Nature of Injury)—		
Fractures	1,746	190
Dislocation without fracture	221	27
Sprains and strains	370	71
Burns	107	20
Poisonings	3	
Other unspecified injuries and reactions	1,383	146
Totals	21,111	5,650

Emergency Benefits.—An emergency benefit may be granted by the Commission on the grounds of hardship to any person who by reason of age, physical or mental disability, domestic circumstances, or any other reason is unable to earn a sufficient livelihood for himself and those dependent on him and is ineligible for any other monetary benefit.

The amount of the emergency benefit is at the discretion of the Commission, which fixes as nearly as possible an amount equal to that payable for the type of benefit for which the applicant most closely qualifies.

Emergency benefits in force at 31 March 1953 numbered 2,248, compared with last year's figure of 2,306. Expenditure in the 1952–53 year amounted to £340,625 and in 1951–52 to £365,181.

Special Assistance.—In November 1951 the Social Security Special Assistance Fund was established to provide special financial assistance to social security beneficiaries and others in need. Assistance is granted where applicants have special commitments which cannot be met out of current income, have insufficient other means available to them, and where there is no possibility of their helping themselves. Welfare and other organizations have been encouraged to assist in bringing these funds to the knowledge of persons who might qualify, and departmental literature has included information on the purpose of the Fund.

In the 1952–53 year, 1,708 applications for assistance were granted, expenditure totalling £21,287. There were 1,127 grants in force at 31 March 1953.

Domestic Concession.—From 1 October 1950, female social security beneficiaries or the wives of social security beneficiaries have been allowed, in addition to the ordinary income exemption of £78 per annum an income from domestic employment in a private home without reduction in their benefits of up to £78 per annum. During the year 1952–53, 357 applications were received, of which 349 were granted, while at 31 March 1953 there were 527 benefits in force, compared with 339 at the end of March 1952.

Reciprocal Benefits.—The Social Security (Reciprocity with Australia) Act 1948, which repealed the Age Benefits and Invalids' Benefits (Reciprocity with Australia) Act 1943, is designed to provide for reciprocity in relation to a wide range of benefits between New Zealand and the Commonwealth of Australia. The Act came into force on 1 July 1949. A similar Act was passed in Australia and came into force on the same date.

Part II of the Act covers the case of former residents of Australia and applies to any person who, having at any time resided in Australia, is permanently resident in New Zealand inasmuch as he either satisfies the Commission that he is or permanently resident or has been in continuous residence in New Zealand for not less than six months (unless in this case the appropriate authorities in both countries agree that the residence is not to be regarded as permanent).

For the purpose of any application for a benefit in respect of a person covered by this Act, residence in Australia or birth in Australia will be regarded as residence or birth in this country.

Applicants for age, invalids', or widows' benefits must be qualified on residential grounds to receive the corresponding pensions under the Social Services Consolidation Act (Australia) as if their residence in New Zealand had been residence in Australia. No male person is entitled to receive an age benefit unless he has attained the age of sixty-five years. The Act also provides that the Commission shall treat blindness or permanent incapacity for work occurring in Australia as if it had occurred in New Zealand.

Part III of the Act deals with persons who, although ordinarily resident in New Zealand, are temporarily resident in Australia. Such residence is not a disqualification for a benefit. Benefits may be applied for and paid in Australia, although the Commission may, in its discretion, postpone payment of the whole or any part of the benefit until the return of the beneficiary to New Zealand.

The appropriate reciprocal provisions made in respect of Australia are contained in the Schedule to the Act.

Reciprocity exists in respect of the following classes of pensions, allowances, endowments, and benefits under the respective Acts governing social security provisions:—

- a. Age pensions and age benefits.
- b. Invalid pensions (including wives' and children's allowances) and invalids' benefits.
- c. Widows' pensions and widows' benefits.
- d. Child endowment and family benefits.
- e. Unemployment and sickness benefits.

The total reciprocal benefits in force in New Zealand as at 31 March 1953 numbered 414, as compared with 418 at 31 March 1952.

As mentioned earlier, reciprocity in respect of family benefits between New Zealand and Great Britain and Northern Ireland was provided for by legislation during 1948, reciprocal family benefits in force at 31 March 1953 numbering 13, compared with the 1952 figure of 787. The Social Security Amendment Act 1951 contained a provision that a family benefit may be paid in respect of a child immediately on arrival in New Zealand if the Commission is satisfied that the child is likely to remain permanently in New Zealand. The fall in reciprocal family benefits is therefore accounted for by the substitution in most cases of ordinary family benefits.

MEDICAL, HOSPITAL, AND OTHER RELATED BENEFITS.—The part of the Act dealing with medical and like benefits is of general application to all persons ordinarily resident in New Zealand, and makes provision for medical, pharmaceutical, hospital, maternity, and other related benefits. The Act provided that the various benefits should be available on and after 1 April 1939 or, if for any reason arrangements for the effective administration of benefits of any of the prescribed classes could not be completed before that date, such benefits should be available on or after such later date as might be determined by the Minister (being the earliest possible date on which arrangements for their effective administration could be brought into operation).

The Act also gives authority for the inauguration of supplementary benefits as and when the occasion for providing such benefits arises. Among the supplementary benefits contemplated were specialist and consultant services, radiological services, dental services, home nursing services, and domestic assistance. All of these benefits have been introduced and are referred to under their respective headings.

Medical Benefits.—Under the provisions contained in the Act every person is entitled to such medical treatment as is ordinarily given by medical practitioners in the course of a general practice. Certain services are excluded, the principal of these being as follows:—

- a. The administration of anaesthetics;
- b. Medical services afforded in relation to maternity cases. (These services are covered by maternity benefits and are described under a later heading);
- c. Medical services involved in any medical examination of which the sole or primary purpose is the obtaining of a medical certificate;
- d. Medical services involved in the treatment of any venereal disease in a communicable form. (Treatment in this connection is provided for under the Health Act 1920);
- e. Medical services involved in or incidental to the extraction of teeth by a medical practitioner;
- f. Medical services in respect of which fees are payable under the Social Security (X-ray Diagnostic Services) Regulations 1941, Social Security (Physiotherapy Benefits) Regulations 1951, and Social Security (Laboratory Diagnostic Services) Regulations 1946—see later headings;
- g. Medical services afforded by means of advice given by telephone, telegram, or letter except under circumstances specifically approved by the Director-General of Health, and medical services not afforded by a medical practitioner in person.

The principal Act provided that a registered medical practitioner who wished to come within the scope of the scheme was required to enter into a contract with the Minister, and regulations issued on 19 February 1941 prescribed the procedure in connection with the initiation of the scheme, the classes of benefits that were to be provided, the obligations of practitioners who undertook to operate the scheme, and the rates of remuneration payable to them. A person entitled to receive medical benefits was required to make application on the prescribed form, which he then presented to the medical practitioner of his choice. If the practitioner was willing to provide the necessary services for the person named in the form, he completed an agreement as between the applicant and himself by attaching his signature thereto. These completed agreements formed the basis of the practitioner's list of patients, for each of whom he was entitled to receive from the Social Security Fund a capitation fee at the rate of 15s. per annum, plus mileage fees in certain circumstances. This scheme came into operation on 1 March 1941.

An important change in principle was made by the Social Security Amendment Act 1941, which provided an alternative to the capitation scheme. This amendment, which came into force on 1 November 1941, and which was subsequently modified by the 1949 amendment to the principal Act, provides that every medical practitioner who renders any of the prescribed services shall be entitled to receive from the Social Security Fund a reasonable fee not exceeding 7s. 6d. for every occasion on which any such service is provided. Mileage fees are also provided for in certain cases. Regulations which came into force from 1 September 1950, and revoked the Social Security (General Medical Services) Regulations 1941, stipulate that where the practitioner is called upon to provide, in response to an urgent request, services on a Sunday or holiday, or between the hours of 8 p.m. and 8 a.m., the appropriate fee shall be a reasonable one not exceeding 12s. 6d. The Act also provides that the practitioner, instead of claiming from the Fund the amount to which he is entitled under the Act, may receive payment from the patient. This refund system, by virtue of the 1949 amendment, is not to apply unless authority is given by the Council of the New Zealand Branch of the British Medical Association after consultation with the Minister or where the amount is recovered from a registered friendly society. In such cases the patient is entitled to recover from the Fund (such recovery being limited to the prescribed fee), and the practitioner is required to provide the necessary receipt to enable this to be done.

The 1949 amendment to the Social Security Act prohibited practice under the capitation system and fee for service system at the same time. This amendment also laid down conditions in respect of the right to recover fees from patients and for reference of accounts to the Divisional Disciplinary Committee appointed under the Medical Practitioners Amendment Act 1949. These provisions came into force as from 1 April 1950.

Pharmaceutical Benefits.—Persons claiming medical benefits are entitled to receive, without cost to themselves, all such medicines, drugs, approved appliances, and materials as are prescribed for their use by a practitioner in the course of providing any medical services under the Act. This class of benefits was introduced on 5 May 1941, regulations providing for them having been issued on 22 April 1941. Under these regulations the proprietor of any pharmacy within the meaning of the Pharmacy Act 1939, or any other person entitled to sell any drugs or pharmaceutical requirements, may be permitted to become a contractor under the scheme. The regulations stipulate that the Minister shall prepare a drug tariff, which shall contain particulars of maximum quantities, standards of quality, and prices of medicines, drugs, appliances, etc., that may be supplied and charged against the Fund. Hospital Boards are entitled to receive payment for pharmaceutical requirements supplied to outpatients, but not in respect of inpatients.

Hospital Benefits.—The Act provides for the payment to Hospital Boards and to the proprietors of licensed hospitals and other approved institutions (who have entered into contracts under the Act) of prescribed amounts in respect of hospital treatment afforded by them. The amount paid to a Hospital Board is in full satisfaction of its claim for the treatment of patients; in the case of licensed hospitals and other institutions the amount paid is in partial satisfaction of claims against the patients or other persons liable for the hospital charges.

These benefits came into force on 1 July 1939, and the present rates (as from 1 April 1943) are as follows:—

- a. Where treatment has been afforded on not more than two days, the sum of 18s.;
- b. In every other case, the sum of 9s. for every day on which any treatment is afforded:

Provided that the day of admission to hospital and day of discharge therefrom shall together be counted as one day.

Prior to 1 April 1943 the rates were 12s. and 6s. for (a) and (b) respectively.

The Act also provides that in lieu of payment being made in respect of individual hospital patients the Minister may from time to time authorize the payment of a grant in respect of hospital treatment afforded in any private hospital or other approved institution.

In addition to the public hospitals and licensed private hospitals, there is another limited class of semi-public hospitals which, in accordance with the Act, has been approved for the purposes of hospital benefits. This class includes the Karitane Baby Hospitals (six), conducted by the Royal New Zealand Society for the Protection of Women and Children, more commonly known as the Plunket Society, and in addition a home for incurables operated under a charitable trust. Special rates were determined for these classes of hospital, and such payments must be accepted in full satisfaction of the claim of the institution authorities.

Hospital benefits are also available in respect of maintenance and treatment afforded to any inpatient of Queen Mary Neurological Hospital, Hamner Springs, or of the Rotoman Sanatorium. The fees chargeable to patients of these institutions are reduced by 9s. per day, and corresponding payment is made from the Social Security Fund to the credit of the Departments controlling the institutions.

Regulations issued on 19 March 1941 (since replaced by the Social Security (Hospital Benefits for Outpatients) Regulations 1947) made provision for free treatment of outpatients at public hospitals. "Hospital treatment" in relation to an outpatient of any public hospital covers the supply of artificial aids, including contact lenses (introduced 1 June 1947), hearing aids (1 November 1947), and artificial limbs (1 April 1948), and all medical, surgical, or other treatment afforded by the staff of the hospital; but does not include dental treatment or services in respect of which fees are payable under specific Social Security Regulations (X-ray diagnostic services, laboratory diagnostic services) referred to under later headings. The amounts to be paid to Hospital Boards from the Social Security Fund for providing outpatient treatment are determined by the Minister and may not be less than one-half of the expenditure or liability incurred in providing the services.

Mental Hospitals.—The principal Act made provision for the treatment of patients in public mental hospitals without charge as from 1 April 1939. By section 10 of the Social Security Amendment Act 1939 a licensed (private) mental hospital may be recognized and approved by the Minister as a hospital for the purposes of the Act, and hospital benefits in respect of treatment therein are payable accordingly.

All expenditure since 1 April 1945 in connection with public mental hospitals has been borne by the Consolidated Fund.

Maternity Benefits.—Maternity benefits include ante-natal and post-natal advice and treatment by medical practitioners, and the services of doctors and nurses at confinements in maternity hospitals or elsewhere.

These benefits came into force on 15 May 1939, but the maternity medical practitioner service was not in full operation until 1 October of that year. The principal Act required that medical practitioners, licensees of private hospitals, etc., and midwives and maternity nurses who wished to come within the scope of the scheme should enter into a contract with the Minister. While this provision remains in force in regard to hospitals and midwives and maternity nurses, the Social Security Amendment Act 1939 provides that any medical practitioner who renders medical services to a woman entitled to a maternity benefit is thereby entitled to receive certain prescribed fees from the Social Security Fund. The scale of fees, which may be varied by agreement between the Minister and the New Zealand Branch of the British Medical Association, or in default of such agreement by a special tribunal, is intended to cover the usual services performed in maternity cases. The amount calculated in accordance with the scale of fees for the time being in force shall be accepted by the medical practitioner in full satisfaction of his claims in respect of the services for which payment is made, except in the case of a practitioner who is recognized as an obstetric specialist in accordance with the terms of the Act. Such a practitioner, in addition to the fees payable from the Social Security Fund, may recover additional fees from the patient.

The main provisions in regard to maternity benefits apart from the medical practitioner service are as follows:—

1. State maternity (St. Helens) hospitals: No charge is made for any services in the St. Helens Hospitals.
2. Public maternity hospitals or maternity wards under the control of Hospital Boards: Payment from Social Security Fund to Hospital Board—
 - a. £1 in respect of the day of birth of the child and for each of the succeeding fourteen days;
 - b. A fee of £2 where any patient is actually attended during labour and at delivery by a medical officer employed by the Board.
 These amounts are to be regarded as in full settlement of all claims in respect of the maternity benefits afforded by the Board.

3. Licensed (private) maternity hospitals: Licensees of licensed maternity hospitals who have entered into contracts under the Act are entitled to receive fees from the Social Security Fund at the same rates as stated in (2) (a) and (b) in regard to Hospital Boards. In some cases the licensee's contract requires him to accept such payment in full satisfaction of his claim in respect of the prescribed period, and in other cases he is permitted under his particular contract to make a specified additional charge on the patient.

4. Midwives and maternity nurses: Approved midwives and maternity nurses who are in attendance in cases where confinement takes place other than in a maternity hospital are entitled to receive from the Fund fees at the rate of £1 for the day or days of labour (£2 in the case of midwives) and 13s. per day for each of the fourteen days succeeding the birth of the child or 5s. per day if a visiting obstetric nurse only. These amounts are to be regarded as in full satisfaction of a nurse's claims in respect of the nursing services.

X-ray Diagnostic Services.—The first of the supplementary benefits was introduced by the Social Security (X-ray Diagnostic Services) Regulations 1941, which came into operation on 11 August 1941. The benefits provided for by these regulations comprise the following:—

- a. The making of X-ray examinations with the aid of a fluorescent screen;
- b. The taking of X-ray photographs;
- c. The supply and administration of any drugs or other substances for the purposes of any such examination or photograph;
- d. The provision of medical services incidental to any such examination or photograph, except medical services of a kind not ordinarily performed by radiologists as such;
- e. The provision of any other incidental services for the purposes of any such examinations or photographs.

X-ray photographs or X-ray examinations made or taken for dental purposes or for the purposes of life assurance are not included in the services that may be provided.

In order to be recognized as a radiologist for the purpose of the regulations a medical practitioner is required to make application to the Minister specifying his academic qualifications and professional experience, and also the nature of the apparatus or equipment in his possession or available for his use in the performance of radiological work. The Minister may give absolute or limited recognition or may refuse recognition. Absolute recognition covers all classes of X-ray diagnostic services, whereas limited recognition may exclude any specified class or classes of service, or may be restricted to certain specified classes of service. An amended scale of fees payable from the fund in respect of services rendered by recognized radiologists is prescribed in a schedule to the Social Security (X-ray Diagnostic Services) Regulations 1941, Amendment No. 1, issued on 28 January 1942. Where the service is rendered by a medical practitioner employed or engaged by a Hospital Board the prescribed fees are to be accepted by the Board in full settlement, but in other cases the amount of such fees is deducted from the amount charged to the patient, who is responsible for the balance, if any.

Physiotherapy Benefits.—The second supplementary benefit introduced concerns physiotherapy treatment by private physiotherapists, and commenced on 1 September 1942, the current regulations being the Social Security (Physiotherapy Benefits) Regulations 1951. The general arrangement for these benefits consists of contracts with registered physiotherapists under which they are paid from the Social Security Fund a fee of 3s. 6d. for each treatment and undertake not to charge the patient any additional fees in excess of 6s. 6d. for treatment afforded in their rooms or 11s. 6d. for treatment afforded elsewhere.

No physiotherapy treatment is recognized for the purpose of the benefits unless it is given on the recommendation of a medical practitioner, and not more than six weeks' treatment may be given on a single recommendation.

Specialist Services.—The Finance Act (No. 2) 1942 brought specialist services within the scope of the medical benefits. Specialist services are defined as "medical services that involve the application of special skill and experience of a degree or kind that general practitioners as a class cannot reasonably be expected to possess". An amount not exceeding 7s. 6d. is payable from the Fund (by way of refund to the patient) in respect of every occasion on which any such services have been provided. The Social Security Amendment Act 1949 authorizes the making of regulations providing for benefits in respect of any class or classes of specialist medical services and for conditions governing the determination of a scale of fees.

Home-nursing Services.—Home-nursing services free of cost to the recipients were introduced by the Social Security (District Nursing Services) Regulations 1944, which stipulate that no charge may be made for district nursing services provided by any Department of State, Hospital Board, or subsidized association elsewhere than in a hospital or other institution. Provision is made for payment from the Social Security Fund to the Department of State, Hospital Board, or association providing district nursing services, of such amounts as the Minister of Health may determine, having regard to the costs incurred in providing such services. The commencement date was 1 September 1944.

Domestic Assistance.—The provision of monetary assistance to approved incorporated associations formed for the purpose of providing domestic assistance in homes, or whose objects include the provision of such assistance, is made by the Social Security (Domestic Assistance) Regulations 1944. Assistance in this connection (commenced 20 December 1944) is restricted by the regulations to the following classes:—

- a. Cases where there are one or more children under twelve years of age permanently residing in a home and the mother or other woman in charge of the home is wholly or partially incapacitated from undertaking her ordinary domestic duties by reason of pregnancy or maternity, or by reason of accident, sickness, etc.;
- b. Cases where there are three or more children under twelve years of age permanently residing in the home, and any member of the household requires special care and attention by reason of sickness or infirmity;
- c. Cases where all members of the household of an age or condition to help in the home are wholly or partially incapacitated from work by sickness or otherwise;
- d. Cases where lack of domestic assistance in the home is a cause of undue hardship.

The terms on which the services of a domestic assistant are provided are to be determined by agreement between the association and the householder, and the association is deemed to be the employer.

In fixing the amounts to be paid from the Social Security Fund to any association the Minister shall have regard to the expenses incurred in providing the services of domestic assistants, including expenditure incurred in the organization of any scheme of registration or enrolment or in the training of the assistants, and to the amounts recovered from the householders to whom assistance has been rendered.

Laboratory Diagnostic Services.—The benefits concerning laboratory diagnostic services came into operation on 1 April 1946, and comprise the supply of all materials or substances required for the purpose of providing laboratory diagnostic services, and the provision of medical services incidental to any laboratory diagnostic service, except medical services of a kind that are not ordinarily performed by pathologists as such, and the provision of any other incidental services for the purposes of laboratory diagnostic services.

The following services are not included:—

- a. Examination of specimens for public health.
- b. Post-mortem examinations.
- c. Laboratory services for dental purposes or for the purposes of life insurance.
- d. The preparation of sera and vaccines.

The schedule of fees payable from the Fund provides for two scales, one covering fees payable to Hospital Boards and the other covering fees payable to recognized pathologists. In each case the prescribed fee shall be accepted in full satisfaction in respect of the services provided.

Dental Services.—The Social Security (Dental Benefits) Regulations 1946 made provision for the introduction of free dental treatment as from a date to be appointed by the Minister. The regulations restricted the application of dental benefits to persons under nineteen years of age, and provided that they were to be introduced according to such age groups as the Minister may determine. These benefits commenced on 1 February 1947, and at present are confined to persons who, for the time being, are under sixteen years of age or were, in the last term of the immediately preceding calendar year, enrolled in a primary or intermediate school or department.

The regulations provide that the services may be provided:—

- a. By a registered dentist or a State dental nurse in a State dental clinic; or
- b. By a contracting dentist pursuant to a contract under the regulations; or
- c. By a contracting authority in a dental department of a public hospital or in a dental school pursuant to a contract under the regulations.

A schedule to the regulations prescribes the nature of the benefits that may be provided and a scale of fees payable to contracting dentists and authorities in respect thereof.

Artificial Aids.—As stated earlier (page 191), the Social Security (Hospital Benefits for Outpatients) Regulations 1947 made provision for the supply of artificial aids, which term includes artificial limbs, hearing aids, contact lenses, and other appliances for the physical aid or relief of persons as the Minister may from time to time prescribe, either wholly or partly at the cost of the Social Security Fund. Artificial aids at present prescribed for the purposes of the regulations, are—

1. *Contact Lenses.*—These may be supplied in respect of the following optical disabilities: (a) conical cornea, (b) gas keratitis, (c) certain forms of irregular astigmatism and any other conditions which cannot be corrected by ordinary spectacle lenses and which show marked improvement with contact lenses. In each case the supply of such lenses must be recommended by an ophthalmologist employed or engaged by a Hospital Board and approved by the Director-General of Health, acting upon the advice of a medical referee appointed for this purpose.
2. *Hearing Aids.*—Individual valve type hearing aids may be supplied subject to the following conditions:—

- a. The patient possesses a hearing loss of at least 35 decibels in the better ear over the significant frequencies of speech or such other loss of a lesser degree as, in the opinion of an otologist employed or engaged by a Hospital Board, renders the use of an aid necessary.
- b. The patient's hearing loss is such that in the opinion of the otologist it is capable of correction or marked improvement by the use of the type of hearing aid supplied or approved for the purpose of the benefit.

It is provided that in respect of patients who satisfy all of the above conditions but who do not wish to avail themselves of the hearing aid issued free of charge by Hospital Boards there may be paid a sum not exceeding £13 towards the purchase of any aid approved for the purposes of these benefits. If a patient has received a benefit for a hearing aid within the preceding five years, the Hospital Board may pay half (or up to a maximum of £6 10s.) of the cost of replacement, provided that the replacement aid will assist hearing more than the existing aid and that the patient is otherwise eligible.

3. Artificial Limbs.—The supply of artificial limbs is subject to the following conditions:—

- a. The patient has not obtained or is not entitled to obtain a limb as an ex-serviceman under the provisions of the War Pensions Regulations 1945 or under the provisions of section 46 of the Workers' Compensation Amendment Act 1947.
- b. The supply of the limb is recommended by an orthopaedic surgeon employed or engaged by a Hospital Board.
- c. The limb is of an approved type and can, in the opinion of the supplier's orthopaedic adviser, be satisfactorily fitted.
- d. Not more than 80 per cent of the cost of the limb shall be borne by the Social Security Fund.

For the purposes of the regulations "artificial limb" includes artificial arms, artificial hands, artificial legs, and artificial feet, and includes an initial supply of not more than six pairs of limb socks for such limbs.

Benefits and Pensions in Force.—A summary showing particulars of the various social security benefits and the various pensions in force in each of the last three financial years is as follows.

Class of Benefit or Pension	Number in Force at 31 March			Annual Value at 31 March 1953			
	1951	1952	1953	Payments During			
				1950-51	1951-52	1952-53	
Social security benefits—							
Monetary—				£	£	£	£
Superannuation	70,304	69,133	71,961	5,756,880	2,336,275	3,144,091	5,564,629
Age	122,187	125,775	123,104	18,918,377	17,150,839	19,235,326	19,091,303
Widows *	12,909	12,367	12,026	2,093,231	2,142,322	2,230,635	2,157,115
Orphans*	334	324	314	31,532	33,061	33,667	35,404
Family	263,493	272,084	280,747	16,387,651	15,289,346	16,110,297	16,854,261
Invalids*	8,992	8,528	8,257	1,383,886	1,429,276	1,476,281	1,416,561
Miners*	592	562	528	115,157	125,189	127,619	121,636
Unemployment	10	2	15		5,355	3,914	3,187
Sickness	4,504	4,569	4,376		1,042,050	1,128,804	1,062,176
Emergency	2,260	2,306	2,248		292,609	365,181	340,625
Special assistance		57	1,127	44,384		2,192	21,287
Totals	485,585	495,707	504,703	39,845,692	43,858,007	46,668,184	
Medical, etc.—							
Medical				2,661,166	2,760,583	3,047,202	
Hospital				2,018,963	2,112,494	2,135,218	
Maternity				885,316	884,781	919,422	
Pharmaceutical				2,097,000	2,428,216	3,015,833	
Supplementary				1,060,938	1,181,953	1,310,923	
Totals				8,723,283	9,368,027	10,428,597	
War pensions, etc.—							
First World War (1914-18)	18,573	18,135	17,786	2,668,370	2,311,606	2,711,710	2,747,298
Second World War (1939-45)	25,901	25,356	25,141	2,007,519	1,970,236	2,071,829	2,072,429
Kat Force		13	85		6,712	671	4,478
South African War		37	34		4,457	3,726	4,429
War Veterans' Allowances		4,776	5,468		1,569,161	964,882	1,282,094
Mercantile Marine		26	24		2,327	2,359	2,872
Emergency Reserve Corps		11	10		1,577	1,628	1,973
War Pensions Emergency Fund							1,764
Totals	49,324	49,040	49,082	6,260,123	5,254,437	6,075,578	6,305,727
Other: Sundry pensions and annuities	205	236	295	46,984	35,641	42,550	46,913
Grand totals	535,114	544,983	554,080	53,859,153	59,344,162	63,449,421	

* The expenditure figures given under this heading are gross—i.e., not reduced by the amounts recovered under maintenance orders, widows' benefits.

The total number of persons in respect of whom social security benefits (including dependent wives and children) were payable at 31 March 1953 was 877,323, or 4,306 per 10,000 of population. For the previous year the corresponding figures were 851,421 and 4,290 respectively.

During the year ended 31 March 1953, £22,540,525, or 48 per cent of the total expenditure (£46,668,183) on monetary benefits including special assistance but excluding bonuses, was paid without a means test, the remaining amount being subject to a means test.

The following table gives details of expenditure on the various classes of medical benefits during the last five financial years.

—	1948-49		1949-50		1950-51		1951-52		1952-53	
	£	£	£	£	£	£	£	£	£	£
Maternity benefits—										
Public hospital fees	389,416	400,334	414,175	417,058	443,094					
Private hospital fees	221,061	188,739	178,739	168,085	157,782					
Medical practitioners' fees	291,246	268,166	279,191	281,351	298,227					
Mileage fees	7,715	7,986	7,851	8,397	9,585					
Obstetric nurses' fees	6,682	6,161	5,127	4,066	4,123					
Other			233	5,824	6,616					
Totals	916,120	871,386	885,316	884,781	919,422					
Medical benefits—										
Capitation fees	16,818	12,002	6,622	4,519	5,170					
Mileage fees	123,768	131,995	145,396	155,626	171,716					
General medical services	2,112,304	2,328,154	2,453,516	2,529,906	2,784,051					
Special arrangements	45,286	47,406	42,499	57,223	65,818					
Purchase of sites and erection of residences for medical officers	8,660	4,733	13,133	13,309	20,447					
Other	45									
Totals	2,306,881	2,524,290	2,661,166	2,760,583	3,047,202					
Hospital benefits—										
Public hospitals—										
Inpatients	1,560,483	1,566,824	1,557,830	1,562,716	1,566,320					

* Mainly on account of hospital benefits.

—	1948-49	1949-50	1950-51	1951-52	1952-53
Outpatients	141,530	147,505	164,508	152,930	163,719
Private hospitals	245,000	249,085	246,199	269,142	261,878
Approved institutions	50,362	48,235	43,477	49,264	50,340
Other		6,949	78,442	93,601	
Totals	1,997,375	2,011,649	2,018,963	2,112,494	2,135,218
Pharmaceutical benefits—					
Chemists	1,727,556	1,991,350	2,036,990	2,371,769	2,952,773
Medical practitioners	8,262	11,266	6,803	8,287	9,143
Institutions	57,341	41,227	53,207	48,160	53,917
Totals	1,793,159	2,043,843	2,097,000	2,428,216	3,015,833
Supplementary benefits—					
Radiological services	249,461	276,999	294,883	310,189	350,120
Laboratory services	117,173	118,447	128,546	149,917	178,892
Physiotherapy services	57,088	63,840	67,388	62,572	62,249
Specialist services (neuro-surgery)	4,072	6,553	4,089	3,019	4,654
District nursing services	111,289	116,007	113,571	124,250	114,931
Dental services	223,186	324,933	385,612	469,989	545,002
Domestic assistance	3,258	3,082	3,520	4,699	5,943
Artificial-aids benefits	96,062	99,777	62,534	55,322	46,981
Other	324	303	795	1,996	2,150
Totals	861,913	1,009,941	1,060,938	1,181,953	1,310,932
Grand totals	7,875,448	8,461,109	8,723,383	9,368,027	10,428,597
Recoveries*	31,814	35,411	31,190	4,250	4,033
Net totals	7,843,634	8,425,698	8,692,193	9,363,777	10,424,564

* Mainly on account of hospital benefits.

A summary of social security and war and other pension payments during each of the last eleven years, together with the amount per head of mean population, is now given.

Year Ended 31 March	Payments During Year			
	Total	Per Head of Mean Population	s.	d.
	£	£	s.	d.
Social Security and Pensions				
1943	17,736,066	10	16	3
1944	20,261,879	12	7	6
1945	22,489,250	13	10	3
1946	26,198,248	15	6	3
1947	40,660,622	22	19	4
1948	44,331,510	24	10	6
1949	46,939,365	25	9	2
1950	50,696,783	26	18	11
1951	53,859,153	28	1	8
1952	59,344,162	30	5	11
1953	63,449,421	31	11	6

MISCELLANEOUS PENSIONS, ETC.—In addition to the various classes of benefits enumerated in the foregoing part of this section there were 295 pensions at 31 March 1953 classed as "sundry pensions and annuities". This class covers ex-officers of the Legislative Department, ex-members of the Police, Defence, and Naval Forces, certain ex-members of the Legislature, and others, by way of compassionate allowance, etc.

7B—WAR PENSIONS, ETC.

LEGISLATIVE AUTHORITY.—All pensions payable to or on account of members of the Forces are now governed by the War Pensions Act 1943 and subsequent amendments, with the exception of pensions under the War Pensions and Allowances (Mercantile Marine) Act 1940. The principal features of earlier legislation which was consolidated and amended by the 1943 Act are given in the following summary. The War Pensions Act 1915 provided for the payment of pensions on certain conditions to disabled members of the New Zealand Forces of the First World War 1914-18 (as defined by the Act) and to dependants of disabled, deceased, or missing members of such Forces. The object of the War Veterans' Allowances Act 1935, which was deemed part of the War Pensions Act 1915, was to make provision for returned servicemen who, apart from any wounds or other disability not directly attributable to war service, were ageing prematurely or otherwise becoming unemployable by reason of mental or physical disability. The War Pensions Extension Act 1940 extended the provisions of the 1915 Act to cover overseas service in the Second World War, overseas service in any other war in which Her Majesty was or is engaged, and service within New Zealand. This brought Territorials and members of the Permanent Forces within the scope of the war pensions legislation. Pensions to veterans of the South African War were granted prior to 1940 under the authority of the Defence Act 1909, but the Finance Act 1940 transferred this authority to the War Pensions Extension Act 1940.

ADMINISTRATION.—The Secretary for War Pensions, who under the Act must be an officer of the Social Security Department, is charged with the administration of war pensions under the general direction and control of the Minister of Defence. The Act also provides for the appointment of a War Pensions Board, which has the responsibility of granting or declining claims for pensions and allowances. This Board consists of not less than three and not more than four members, one of whom must be a registered medical practitioner and one a representative of returned servicemen. Claimants have the right of appeal to the War Pensions Appeal Board, also appointed under the Act. The Appeal Board consists of three members, two of whom must be registered medical practitioners and the third a representative of returned servicemen. The War Pensions Emergency Regulations 1944 made provision for the appointment of such number of additional War Pensions Boards and War Pensions Appeal Boards as the Minister deems advisable. For some years two War Pensions Boards were operating but, with the diminution of the work in the later part of the 1952-53 year, the second War Pensions Board became no longer necessary, and it ceased operations after 31 March 1953.

From 1 January 1953 the administration of war burials under the War Burials Regulations 1941 was taken over from the Education Department. These are available to children of war veterans, seriously and permanently disabled ex-servicemen, and of deceased ex-servicemen in respect of whose death a war pension is paid. The burials are £25 a year for the year for full-time post-primary pupils, £30 a year for full-time university students, and £1 10s. a year for part-time students at technical classes. Up to 31 March 1953, 308 war burials had been granted.

GROUNDS FOR PAYMENT OF WAR PENSIONS.—Pensions in respect of the death or disablement of any member of the New Zealand Forces are payable to the dependants of the member (in the case of death) and to the member and his dependants (in the case of disablement) in any of the following cases:—

1. Where death or disablement occurred while on overseas service as a member of the Forces in connection with any war in which Her Majesty was engaged, or is attributable to such service;
2. Where death or disablement is attributable to service in New Zealand, or is attributable to service overseas otherwise than in connection with any war;
3. In any case where the condition which resulted in the death or disablement was aggravated by any service to which either of the last two preceding paragraphs relates.

Special provision is also made for pensions and allowances to members of the Emergency Reserve Corps and their dependants in respect of death or disablement attributable to their duties as members.

The provisions in regard to attributability were considerably liberalized by the later Act, which lays down that the onus of proving that death or disablement was attributable to service, or that the condition which resulted in death or disablement was aggravated by such service, shall not be on the claimant and that the War Pensions Board and the War Pensions Appeal Board shall give claimants the full benefit of all presumptions in their favour. A member who was graded fit for service when he entered the Forces is deemed to have been absolutely fit at that time unless any defects were noted then or within the first two months of service. This presumption does not operate if the member failed to disclose any material fact to the medical examiner. The Act also states that the Boards are not to be bound by technicalities or legal forms or rules of evidence, but shall determine all claims in accordance with their merits.

RATES OF WAR PENSIONS.—The 1943 Act provided for the general rates of disablement pensions being increased by 50 per cent, and for increases in dependants' and economic pensions. Amendments passed in 1946, 1947, 1949, 1950, and 1951 further increased the rates of pensions for various categories. The Prime Minister announced in December 1953 that war pensioners and war veterans would receive increases from 15 September 1953 of 10s. per week.

War Pensions in Respect of Death of Member.—The following table sets out the maximum weekly rates of pension at present payable (January 1954) in respect of the death of a male member of the Forces.

Rank or Rating	To Widow	To Widow With Dependent Child or Children	Mother's Allowance	To Each Child

Rank or Rating	To Widow	To Widow With Dependent Child or Children: Mother's Allowance	To Each Child
	£ s.	£	s.
Ranks and ratings below commissioned rank	3	0	5
Lieutenant (Army); Sub-Lieutenant (Navy); Pilot Officer (Air Force)	3	0	5
Captain (Army); Lieutenant (Navy); Flying Officer, Flight Lieutenant (Air Force)	3	0	5
Major (Army); Lieut.-Commander (Navy); Squadron Leader (Air Force)	3	7	5
Lieut.-Colonel (Army); Commander (Navy); Wing Commander (Air Force)	3	16	5
Colonel (Army); Captain (Navy); Group Captain (Air Force)	3	18	5
Brigadier and upwards (Army); Commodore and upwards (Navy); Air Commodore and upwards (Air Force)	4	0	10

War Pensions in Respect of Disablement of Member.—In the case of total disablement of a male member of the Forces the maximum weekly rate is £4 to the member, plus £3 7s. 6d. to a wife, together with 10s. for each dependent child.

The weekly rate for total disablement of a female member is £4, while 10s. per week is payable in respect of each dependent child in the case of death or disablement.

The 10s. per week in respect of each dependent child may be paid either by way of family benefit or, alternatively, by way of war pension.

These rates may be increased by an amount not exceeding £2 10s. per week if the member is suffering from total blindness, or where the member has suffered two or more serious disabilities, or suffers from one extremely severe disability causing him to be bed-ridden or preventing normal social and recreational activities.

A schedule to the Act prescribes the rates of pensions payable in respect of partial disablement resulting from certain major disabilities. In other cases of partial disablement the rates are decided by the War Pensions Board or the Appeal Board, regard being had in every case to the nature and probable duration of the disablement.

If a member, while in receipt of a permanent pension of an amount of not less than 70 per cent of the maximum pension that would be payable in respect of total disablement, dies from any cause not attributable to service as a member of the Forces, a pension may be granted to his widow or dependent children as if death was attributable to service.

Other grants and concessions which may be made to disabled servicemen include the following:—

1. An allowance not exceeding £7 5s. per week where a pensioner is so disabled as to require the services of a paid attendant;
2. Additional pensions by way of clothing allowances of from £22 to £24 per annum to amputees and up to £16 to others who are obliged to use any mechanical or other appliance;
3. A free pass on the New Zealand railways to members in receipt of full permanent pensions;
4. A permit to travel first class at second-class rates on the New Zealand railways to amputees and others suffering locomotive disabilities to a degree of over 50 per cent for which they receive permanent pensions;
5. Free medical and surgical treatment in respect of pensionable disabilities. Surgical appliances such as artificial limbs, etc., are also supplied free and kept in good order and repair;
6. Payment of an annual travelling allowance of up to £26 to totally disabled pensioners who are unfit to travel alone;
7. Payment of up to £100 towards the cost of structural alterations to provide special accommodation for a pensioner suffering from pulmonary tuberculosis;
8. Payment may be made to a service patient of £1 10s. per week while he is maintained in a hospital or other institution;
9. An accommodation allowance of £1 10s. per day is payable to war pensioners reporting for medical examination or treatment, while compensation in respect of loss of earnings is 15s. per half-day.

During the 1952-53 year the administration of interest-free loans granted to war pensioners in receipt of permanent war pensions for locomotive disabilities (£200 to those with 85 per cent or more pension for locomotive disability and £500 to those with a minimum of 100 per cent pension with certain locomotive disabilities) was transferred to the Secretary for War Pensions from the Director of Rehabilitation. In the 1952-53 year, 24 interest-free loans to purchase motor cars were granted, with a total value of £7,537.

Pensions to Dependents (other than Wives or Children).—In addition to pensions for wives and children, a pension may be granted to any member of a deceased or disabled serviceman's family who was in fact wholly or partially supported by him at any time within the period of twelve months immediately preceding the date on which the serviceman became a member of the Forces. "A member of the family" includes a parent, grandparent, step-parent, grandchild, step-child, brother, sister, half-brother, half-sister, and mother-in-law. "Child," in relation to any member of the Forces, means a child under the age of sixteen years, and includes an adopted child (subject to certain conditions as regards date of adoption) and an ex-nuptial child (also subject to certain conditions).

The amount of pension payable to a dependent other than a wife or child is governed by the value of the benefits received from the member of the Forces on whose case the claim is based during the period of twelve months immediately preceding the date upon which he became a member of the Forces. The rate, however, is limited to the maximum prescribed for the wife of a member or, in the case of the death of a member, to that prescribed for a widow without children.

The pension payable to a widowed mother, if wholly dependent on the member, is not to be less than the rate granted if the dependant were the wife of the member, or, if partially dependent, the rate is £1 10s. a week.

South African Veterans' War Pensions.—The original authority for the payment of pensions in respect of service in the South African War was the Defence Act 1909, but the Finance Act (No. 4) 1940 provided that pensions might be granted under Part III of the War Pensions Extension Act 1940 in respect of death or disablement suffered by members of any New Zealand Contingent who served in South Africa in connection with the South African War. The War Pensions Extension Act 1940 was repealed by the War Pensions Act 1943, and pensions to veterans of the South African War are now payable under the general authority of the latter with its amendments. The provisions of the Act have been extended to include a member who served in any of Her Majesty's Forces in the South African War if he had been born in New Zealand or was domiciled therein at the commencement of the war.

In addition to war pensions, a South African veteran who is in receipt of an age-benefit under the Social Security Act may receive an additional benefit of £13 13s. per annum, provided that his total income, including pension, does not exceed £253 10s. per annum. Such payments are included with social security benefits and not with war pensions.

Economic Pensions.—An "economic pension" is defined as a supplementary pension granted on economic grounds and is in addition to any pension payable as of right in respect of death or disablement. In considering a claim for an economic pension the Pensions Board is required to take into consideration the ability of the claimant to obtain and retain suitable employment, the personal income and ownership of any property, the cost of living, and other relevant matters.

The maximum weekly rates of economic pensions are £3 7s. 6d. to a member £3 7s. 6d. to a widow with a dependent child or children (the mother's allowance of £2 5s. a week is also payable of course, in addition to the basic war widow's pension), and £3 7s. 6d. to any other war widow (the basic war widow's pension is also payable). A partially dependent widowed mother of a deceased member may be granted an economic pension of an amount not exceeding £2 7s. 6d. a week in addition to her ordinary pension. In the case of total dependency on one son or partial dependency on two or more deceased sons, the maximum economic pension is increased to £3 7s. 6d. a week. An allowable income of £1 10s. a week is permitted without reduction of the amount of economic pension to which entitled. The provisions fixing the maximum allowable income of the widowed mother of a deceased member of the Forces were repealed by the 1950 amendment.

Servicemen pensioned for minor disabilities do not receive economic pensions.

WAR VETERANS' ALLOWANCES.—The object of the War Veterans' Allowances Act 1935 which is now incorporated in the War Pensions Act 1943, was to make provision for members of the Forces who, apart from any wounds or other injuries received during war service were ageing prematurely or otherwise becoming unemployable by reason of mental or physical incapacity. The term "veteran" includes—

- a. Any male member of the New Zealand Forces who has served as such in actual engagement with the enemy or, by reason of his period of overseas service and the arduous and dangerous nature of it, is considered a proper person for the grant of such;
- b. Any female member who has served overseas as a member of the New Zealand Forces;
- c. Any other person who, being domiciled in New Zealand at the commencement of any war in which members of the New Zealand Forces have served as such, has served in that war as a member of any of Her Majesty's Forces, other than the New Zealand Forces with a unit in actual engagement with the enemy.

A condition precedent to the granting of a war veteran's allowance is a minimum of five years' continuous residence in New Zealand immediately preceding the date of the claim. Continuous residence is not deemed to be interrupted by occasional absences not exceeding six months in the aggregate increased by one month for each year in excess of five that the veteran has resided in New Zealand; any absences as a member of the Commonwealth Forces are also disregarded.

Whether or not a claimant for an allowance is unfit for permanent employment by reason of mental or physical infirmity is a question of fact to be determined by the War Pensions Board. Claimants have the right of appeal to the War Pensions Appeal Board.

The War Pensions Amendment Acts 1945, 1947, 1949, 1950, and 1951 provided for increases in war veterans' allowances, and the rates at present payable (January 1954) inclusive of the 15 September 1953 increase, are as follows:—

1. Male veteran without a wife: £175 10s. per annum, diminished by £1 for every complete £1 of his annual income (exclusive of this allowance) in excess of £78;
2. Male veteran with a wife: £175 10s. per annum in respect of the veteran's personal claim £175 10s. in respect of his wife, diminished by £1 for every complete £1 of their combined annual income (exclusive of this allowance) in excess of £78;
3. Female veteran without a husband: £175 10s. per annum, diminished as in (1) above;

4. Other female veteran: £175 10s. in respect of her personal claim, diminished by £1 for every complete £1 of the combined annual income (exclusive of this allowance) of the veteran and her husband, in excess of £130.

No account is taken of the amount of war disablement pensions in the determination of the war veterans' allowances. A supplementary allowance of up to £78 per annum may be granted where both veteran and wife are aged sixty-five, or £39 where only one has attained that age.

The 1950 amendment authorizes the War Pensions Board in computing any war veteran's allowance to take no account of the personal earnings of any woman from domestic service in a private home up to £78 per year.

Where a veteran in receipt of an allowance dies leaving a widow in respect of whom an allowance is also being paid, a gratuity not exceeding twice the total annual allowance in force (in respect of the veteran and his wife) at date of death may, at the discretion of the Board, be granted.

In conformity with the policy of granting family benefits under the Social Security Act, the War Pensions Amendment Act 1945 abolished war veterans' allowances in respect of dependent children, and from 1 October 1945 these allowances have been paid by way of family benefit.

EMERGENCY RESERVE CORPS PENSIONS.—The War Pensions Act 1943 incorporates that part of the Finance Act 1940 which made provision for pensions to members of the Emergency Reserve Corps, established under the Emergency Reserve Corps Regulations 1940. These pensions are payable where death or disablement was suffered in the course of service, including training, as a member or was directly attributable to such service.

The rates of pension in respect of the death of a male member are the same as those prescribed for a private in the Army—viz., £3 per week to the widow, plus a mother's allowance of £2 5s. per week to a widow with a dependent child or children, together with 20s. per week in respect of each dependent child. In respect of total disablement, the maximum weekly rates are £2 5s. for an unmarried member under twenty-one years of age and £4 per week for other members, £3 7s. 6d. a week to a wife with or without dependent children, plus 10s. per week in respect of each dependent child. Pensions in respect of partial disablement are determined in each case by the War Pensions Board. An economic pension may also be granted.

As in the case of war pensions, the amount payable to a dependant other than a wife or child is limited to the average weekly value of the benefits received from the member during the period of twelve months immediately preceding the date of death or disablement, as the case may be. The 10s. per child may be paid either as a family benefit or, if so desired, as a pension.

MERCANTILE MARINE PENSIONS.—The War Pensions and Allowances (Mercantile Marine) Act 1940 made provision for the payment of pensions and allowances to members of the New Zealand mercantile marine and their dependants in respect of death, disablement, or detention suffered as a result of the Second World War, this being a new departure as far as New Zealand's war-pension legislation is concerned. An amendment passed in 1943 extended the scope of the Act to permit of pensions being paid to members of any mercantile marine who are in receipt of similar pensions or allowances from any other Government within the British Commonwealth, provided that such members were, immediately prior to the commencement of the war, *bona fide* residents of New Zealand. A claimant under this new provision must be actually resident in New Zealand, and the amount of pension or allowance that may be granted is limited to a sum which, together with the amount granted out of New Zealand, will not exceed the pension or allowance that would have been payable had the claimant been a member of the New Zealand mercantile marine.

The maximum rates at present in force in respect of the death of a member range from £3 to £3 7s. per week (according to the member's rank or rating and the tonnage of the vessel in which he was serving) for a widow without dependent children, and in the case of a widow with a dependent child or children there are additional payments of £2 5s. per week by way of mother's allowance and 10s. per week in respect of each dependent child under sixteen years of age. In the case of total disablement, the maximum weekly rates are £4 to the member, £3 7s. 6d. to a wife, plus 10s. per week in respect of each dependent child under sixteen years of age. The amounts payable in respect of partial disablement are determined by the War Pensions Board in each case. There are no distinctions as regards rank or rating or the tonnage of the vessel in which the member was serving in the case of disablement pensions and allowances.

Where a member suffered detention as a result of his capture or the capture of his ship, the rates of allowances payable corresponded to the pensions payable in respect of total disablement.

In all cases pensions and allowances to dependants other than to a wife or a child are limited to the value of the benefits actually received by the claimant from the member during the twelve months immediately preceding his death, disablement, or detention, as the case may be. As stated elsewhere in regard to war pensions, allowances for dependent children may be paid either by way of family benefits or by way of war pension.

WAR PENSIONS EMERGENCY FUND.—This Fund was established in November 1951 to provide for similar cases to those set out under the Social Security Special Assistance Fund (see page 188). Experience over the 1952-53 year would seem to indicate that few have found it necessary to make claims, 73 of which were granted during 1952-53.

WAR PENSIONS APPEAL BOARD.—A claimant may appeal to the War Pensions Appeal Board from a decision of the War Pensions Board within six months of the date on which the decision of the latter was communicated to him. Such an appeal can only be made in so far as it consists of—

- a. The rejection of any claim for a pension in respect of the death or disablement of a member of the Forces on the ground that the death or disablement was not attributable to his service as a member of the Forces or that the condition that resulted in his death or disablement was not aggravated by such service;
- b. The assessment of a pension granted to any member of the Forces in so far as the assessment is based on medical grounds.

The Appeal Board may confirm the decision of the War Pensions Board or may grant a pension, or, within the limits prescribed by the Act, may increase or reduce the amount of any pension. The number of appeals lodged each year has fallen steadily from the peak of 2,661 in 1944-45 to 295 in 1952-53. Of the 313 appeals dated with during the year ended 31 March 1953, 153 or 49 per cent were upheld, 134 dismissed, and 26 struck out or withdrawn.

STATISTICAL REVIEW OF WAR PENSIONS, ALLOWANCES, ETC.—During the year ended 31 March 1953 the Department received 3,210 applications for war pensions. Of these, 665 applications were lodged by ex-servicemen in respect of their own disabilities, the balance being made up of claims by dependants, applications for economic pensions, and war veterans' allowances. The total for the previous year was 4,551, 11 of these £14 being in respect of the applicants' own disability. In addition there were 45 claims received during the year in respect of disablement arising from Compulsory Military Training, 36 of which were granted.

Summary of Disabilities for which Pensions Granted, 1939-53.—The following is a summary of the disabilities attributed to war service from 1939 onwards and for which ex-service personnel had been granted pensions up to 31 March 1953.

Class of Disability or Disease	Type of Service		Total	Percentage of Total
	Overseas, 1939-45 War	Kayforce/ New Zealand		
Infections and infestations	1,747	16	1,161	1,879
Nervous system	9,190	21	1,661	10,872
Eye, ear, and nose	6,535	18	1,337	7,890
Circulatory and blood system	1,992	2	1,001	2,995
Metabolic and endocrine system	394	1	172	567
Lungs	3,370	3	1,118	4,491
Diseases of bones, joints, muscles, tendons, and ligaments	5,116	12	1,836	6,964
Digestive system	3,980	10	1,147	5,137
Generative system	334	—	124	458
Gunshot wounds and accidental injuries to bones, joints, and soft tissues	7,194	19	1,204	8,417
Skin	2,443	6	543	2,992
Tumours and neoplastic growths	154	1	53	208
Malformations	300	—	131	431
Amputations	477	2	67	546
Urinary tract	559	1	140	700
Debility	443	—	109	552
Totals	44,228	112	10,759	55,099

The following table shows for all classes of war pensions the number in force at the end of March in each year and the expenditure during the year for the eleven years 1943-53.

Year Ended 31 March	First World War (1914-18)	Second World War (1939-45)	Kayforce	War Veterans	South African War	Mercantile Marine	Emergency Reserve Corps	Total
	<i>Number in Force</i>							
1943	22,161	7,666	1,807	42	6	19	31,701	
1944	21,038	13,037	1,791	44	12	10	35,932	
1945	20,849	20,584	1,892	45	18	12	43,400	
1946	20,460	26,926	2,029	46	26	11	49,498	
1947	20,081	30,028	2,277	42	27	10	52,465	
1948	19,715	28,249	2,617	42	24	11	50,658	
1949	19,320	27,187	3,367	41	23	10	49,948	
1950	18,976	26,537	3,997	39	24	11	49,584	
1951	18,573	25,901	4,776	37	26	11	49,324	
1952	18,135	25,356	5,468	34	24	10	49,040	
1953	17,786	25,141	5,964	32	24	9	49,041	
	<i>Expenditure</i>							

Year Ended 31 March	First World War (1914-18)	Second World War (1939-45)	Kayforce	War Veterans	South African War	Mercantile Marine	Emergency Reserve Corps	Total
1943	£ 1,574,062	£ 479,477	£	£ 224,942	£ 1,504	£ 350	£ 1,985	£ 2,282,320
1944	1,973,069	917,855		224,705	2,550	719	1,404	3,120,302
1945	2,046,005	1,407,460		242,501	3,243	1,652	1,228	3,702,089
1946	1,997,390	1,662,227		275,029	3,547	1,879	1,351	3,941,423
1947	2,036,825	2,080,952		346,694	3,502	2,985	1,336	4,472,294
1948	2,049,391	2,031,194		422,275	3,689	2,727	1,368	4,510,644
1949	2,104,627	1,906,232		562,634	3,892	2,700	1,447	4,581,532
1950	2,271,371	2,010,852		743,999	3,826	2,403	1,588	5,034,039
1951	2,311,606	1,970,236		964,882	3,726	2,359	1,628	5,254,437
1952	2,711,710	2,071,829	671	1,282,094	4,429	2,872	1,973	6,075,578
1953	2,747,298	2,072,429	4,478	1,471,405	4,315	2,957	1,764	6,304,646

The foregoing figures do not include the following: (a) costs of certain medical treatment not available under social security amounting to £70,750 in 1952-53; (b) railway and bus concessions to pensioners for total and permanent disablement and for locomotive disabilities for which a permanent pension of over 50 per cent disablement had been granted, costing £13,852 in 1952-53 and £11,380 in the previous year; and (c) loading on life assurance policies where the loading is due to war disabilities, expenditure under this heading being £1,570 in 1952-53 and £1,453 in 1951-52.

Administrative costs for 1952-53 in respect of war pensions and allowances amounted to £15,719, as against £12,212 in 1951-52.

Particulars of First and Second World War and Kayforce pensions in force as at 31 March of each of the last five years are given below.

At 31 March	Disablement Pensions		Dependants of Disabled Ex-members (No.)	On Account of Death		Total (No.)
	Permanent (No.)	Temporary (No.)		Widows (No.)	Parents and Other Dependents (No.)	
<i>First World War, 1914-18</i>						
1949	13,812	277		2,546	2,347	338
1950	13,585	230		2,509	2,377	275
1951	13,385	126		2,385	2,443	234
1952	12,758	360		2,378	2,457	182
1953	12,517	308		2,298	2,492	171
<i>Second World War, 1939-45</i>						
1949	8,310	15,317		987	1,629	944
1950	10,065	13,011		923	1,582	956
1951	11,344	11,211		896	1,466	984
1952	11,799	10,559		808	1,422	968
1953	12,342	9,625		778	1,423	973
<i>Kayforce</i>						
1952	3	10				13
1953	4	80		1		85

Mothers' allowances were paid to 773 widows of deceased ex-servicemen during the year ended 31 March 1953. The number of children for whom payments were made during 1952-53 but who were not included in the preceding table totalled 2,851, being 685 in respect of First World War pensions and 2,166 for Second World War pensions.

The next table shows the number of pensions in force at 31 March 1953, classified according to percentage of disability.

Percentage of Disability	First World War		Second World War		Kayforce		Totals
	Permanent	Temporary	Permanent	Temporary	Permanent	Temporary	
100	1,950	84	727	858	2	11	3,632
90-99	141	0	78	15			240
80-89	376	17	247	98			739
70-79	779	31	318	211			1,340
60-69	714	29	326	225			1,295
50-59	1,763	43	726	537			3,070
40-49	850	20	733	546	1	3	2,153
Under 10 to 39	5,944	78	9,187	7,135	1	62	22,407
Totals	12,517	308	12,342	9,625	4	80	34,876

Details of economic pensions payable at 31 March 1953 are now given, together with the totals as at 31 March 1952. The figures contained therein are included in the tables shown under the preceding subheading.

Class of Pension	First World War, 1914-18		Second World War, 1939-45		Kayforce	
	Number	Annual Value	Number	Annual Value	Number	Annual Value
		£		£		£
Ex-members with permanent pensions	3,167	466,587	481	69,408	1	150
Ex-members with temporary pensions	76	10,795	527	76,614	8	1,196
Widows	1,698	247,353	798	109,886		
Widowed mothers	13	1,427	63	6,687		
Totals, as at 31 March 1953	4,954	726,162	1,869	262,595	9	1,346
Totals, as at 31 March 1952	5,018	737,695	1,899	266,960	7	149

7 C—SUPERANNUATION

General.—Superannuation for Government employees is provided for under the authority of the Superannuation Act 1947, which replaced the earlier separate provisions. Members of the Armed Forces, Police, Post and Telegraph, Public Service, Railways, and teachers, are now contributing to the one Fund, slightly differing terms and conditions being made to meet the requirements of the various Services.

Local government employees and the permanent employees of all statutory bodies are provided for under the National Provident Fund Act 1950. There are now no schemes operative under the authority of the Local Authorities Superannuation Act 1908. For the operations of the National Provident Fund, see Section 7D.

There are also a number of private superannuation funds in existence. Information respecting these is given at the end of this subsection.

The Government Superannuation Fund.—The Government Superannuation Fund, which came into being on 1 April 1948, replaced (and absorbed the monies belonging to) the former Public Service Superannuation Fund, the Teachers' Superannuation Fund, and the Government Railways Superannuation Fund. Its revenues comprise contributions, subsidies from the Consolidated and other Funds, interest accrued from the investment of moneys in the Fund, fines, all moneys that would have been paid into the three Funds mentioned if the 1947 Act had not been passed, and all other moneys that may be payable into the Fund.

The Fund is administered by a Board consisting of the Minister of Finance as chairman, the Secretary to the Treasury, the chairman of the Public Service Commission, the General Manager of Railways, the Director of Education, the Director-General of the Post and Telegraph Department, the Commissioner of Police, and six staff members appointed on the nomination of the various service organizations.

Superannuation benefits are available for a greater number of persons in receipt of State emoluments than was the case under the 1927 Act. Members of the Government Service, including in this term the Education Service, Police, the Cook Islands Public Service, the Samoan Public Service, and the State Advances Corporation, in addition to the departments of State under the control of the Public Service Commission, the Railways Department, and the Post and Telegraph Department, may all become contributors to the Fund. Separate parts of the Act relate to the provision of superannuation for members of Parliament, permanent members of the regular Armed Forces, and for Magistrates and Maori Land Court Judges. Members of the Judiciary—i.e., Judges of the Supreme and Arbitration Courts—are provided for elsewhere.

Contributions in the case of the Government Service range from 5 per cent of annual salary if under thirty years of age at commencement of contributory service to 10 per cent where the age exceeds fifty years, the increase being at the rate of 1 per cent per year for each five-year increase in age category at commencement date. Retiring allowances are computed at the rate of a one hundredth and twentieth part of the annual salary for each year of

contributory service, this amount being increased by a sum equal thereto, but in no case is the added amount to exceed £300, or be less than £3 15s. per year of contributory service. The annual salary for the purpose of this computation is deemed to be the average of that paid in each of the five years immediately preceding retirement. The 1953 amendment to the Act also enabled retiring allowances under £300 a year to be computed on the average salary for the last three years instead of the last five years where this procedure will result in increasing the allowance, the effective date being made retrospective to 1 April 1948. When a married contributor dies, whether before or after becoming entitled to a retiring allowance, his widow may elect to receive a refund of the amount of his contributions less any sums received by him during his lifetime, or to receive an annuity at one-half of the rate of his retiring allowance at the date of his retirement, or if he died before that, to which he would have been entitled if he had retired on the date of his death on the ground of being medically unfit for further duty, disregarding any election to take a variable allowance or to surrender part of the allowance to an approved dependant. The amount of the widow's annuity is not to be less than £104 or greater than £300 per annum. In addition, £26 per annum is payable in respect of each child under sixteen years of age left by a deceased contributor. The above are general provisions only and for a complete survey need to be supplemented by reference to other provisions in respect of age, length of service, sex, sickness, withdrawal, refunds, subsidiary benefits, etc., contained in the Act. Contributory membership and retiring allowances as outlined apply generally to permanent members of the Regular Armed Forces. Magistrates and Judges of the Maori Land Court are also entitled to retiring allowances, subject to age and length of service qualifications, one-fortieth of the annual salary at the date of retirement being allowed for each year of service, but in no case is the retiring allowance to exceed two-thirds of that salary. Members of Parliament contribute at the rate of £50 a year, but if at the date of commencement of the retiring allowance contributions are less than £250 the deficiency must be paid into the Consolidated Fund within such time and in such manner as the Minister of Finance may allow. Retiring allowances subject to nine years of service and attainment of the age of fifty years are at the rate of £250 a year for the first nine-year period of service, and for each additional year of service an increase of £25, with a maximum rate of allowance of not more than £400 a year.

The following statistics present a review of the operations of the Fund during its five years in operation.

At 31 March 1953 there were 59,351 contributors, paying £2,040,519 per annum into the Fund. The pensioners at the same date numbered 16,567, and were entitled to £3,673,089 per annum, made up as follows.

—	Number			Pensions
	Males	Females	Total	
				£
Retired for age or length of service	6,778	2,505	9,283	2,800,388
Retired for ill health	1,550	285	1,835	304,568
Police injured on duty	25		25	5,173
Widows		4,372	4,372	535,504
Children	517	535	1,052	27,456
Totals	8,870	7,697	16,567	3,673,089

Accumulated funds at 31 March 1953 amounted to £13,924,218. Total assets, which amounted to £14,024,983, included: Investments, £12,104,294; interest, due and accrued, £1,099,929; contributions in course of transmission, etc., £119,493; and cash in hand and at bank, £1,626,902.

Subsidies paid to the Fund from 1 April 1948 to 31 March 1953 amounted to £13,065,390.

The average effective interest earnings (per cent) of the Fund for the five years ended 31 March 1953 was £3 0s. 5d.

The total revenue of the Fund for the year ended 31 March 1953 was £6,127,799, including members' contributions £2,040,519, interest on investments and on contributions £374,684, and subsidy £3,702,781. The total amount expended during the year was £4,012,101, including retiring and other allowances £3,597,606, refunds of his contributions £394,361, transfers to National Provident Fund £18,734, and other expenditure £1,400.

A table is now given showing the progress of the Fund for the last five years.

Year Ended 31 March	Number of Contributors	Annual Contributions	Interest Receivable From Investments		Contributions From Government		Annual Value of Allowances		Accumulated Fund	
			£	£	£	£	£	£		
1949		53,622	1,294,013	175,560	2,530,000	2,850,494	6,305,507			
1950	"	51,509	1,509,357	160,720	2,590,000	"	"			
1951	"	51,628	1,628,124	259,185	2,850,000	"	"			
1952	"	58,931	2,002,877	377,265	2,915,000	3,409,538	11,808,520			
1953	"	59,351	2,040,519	352,816	2,998,000	3,673,089	13,924,218			

* The accounts for the 1950, 1951, and 1952 years were consolidated and individual figures for these items are not available.

Private Superannuation Funds.—Most large and many small employers have established their own staff superannuation funds. Certain taxation concessions are available to an employer and his employees in respect of their contributions to a superannuation fund provided the fund is approved by the Commissioner of Inland Revenue, and it is probable that there are no funds being administered which have not been approved.

NUMBER OF APPROVED FUNDS

As at 31 March	Number to Date	As at 31 March	Number to Date
1950	1,450	1952	2,123
1951	1,726	1953	2,587

A few funds, particularly those of banks, oil companies, insurance companies, and large companies engaged in international trade, provide pensions on retirement, but approximately 95 per cent of all approved funds provide lump-sum payments on retirement.

Of every 95 lump-sum funds approximately 2 are invested in shares, debentures, and trustee securities, and the remaining 93 are invested in life-insurance policies taken out on the lives of the various employees.

The life-insurance companies regard superannuation funds as an important part of their business, and they have been responsible for a great increase in the number of approved funds in recent years.

7 D—NATIONAL PROVIDENT FUND

THE National Provident Fund established by Act in 1910 came, into operation on 1 March 1911. The Fund is administered by a Board comprising the Minister of Finance as Chairman, the Secretary to the Treasury, the Director-General of Health, the Valuer-General, the Superintendent of the Fund, and two other members appointed by and holding tenure of office during the pleasure of the Governor-General. The present legislative authority is contained in the National Provident Fund Act 1950, which consolidated and amended previous legislation on this subject.

In addition to guaranteeing the benefits payable under the Act, the State provides a subsidy to the extent of one-fourth of the contributions paid into the Fund, and also meets all the administrative expenses.

The Fund provides two distinct services:—

1. *Public Fund Branch.*—Pensions and subsidiary benefits for members of the general public, with extensions for members of approved friendly societies and employees of firms, trade unions, etc.
2. *Superannuation Branch.*—Superannuation for employees of all local authorities and other statutory bodies.

Membership of the public portion of the Fund is open to any resident of New Zealand under the age of sixteen. Parents, guardians, or relatives of children may make advance deposits to secure the entry of the child to full membership when he attains the age of sixteen. No medical examination is required on entry. The method of joining is extremely simple: the applicant fills in a form at any money order post office, or local office of the Fund, and pays a first contribution. Subsequent contributions may be met by deduction from salary, wages, or a savings-bank account. A liberal discount is allowed where contributions are paid 157 weeks or more in advance.

Contributions for each 10s. step of weekly pension range from 9d. per week for persons joining the Fund at age sixteen to 9s. 4d. per week for persons joining at age forty-nine; full subsidiary benefits attach to the first step pension. Any contributor may elect to increase the rate of contribution in accordance with attained age at date of election, so as to increase the rate of his prospective pension.

The following benefits are payable:—

(1) *On Incapacity of Contributor.*—After five years' membership, for the fourth and subsequent months of total incapacity for work, an allowance of 10s. per week for each child under sixteen years of age. Contributions in respect of the first 40s. weekly pension are remitted during the receipt of this allowance, which abates in respect of other income in excess of £6 per week.

(2) *On Death of a Contributor.*—After five years' membership, an allowance of 10s. per week for each child under sixteen years of age, and 10s. for the widow so long as any child is under sixteen years of age.

On reaching age sixty (or sixty-five, subject to reduced contributions or increased pension rates), pensions ranging from 10s. to 120s. per week according to the scale of contributions; options as to joint and survivorship pensions and for refund of contributions in lieu of pensions are provided.

On withdrawal, lapse, or death leaving no children under age sixteen, a refund to contributor or to personal representative of all contributions paid, less any benefits theretofore received.

The scope of the Fund was extended in 1914, the Board being empowered to entertain applications by local authorities for superannuation on behalf of their employees. In 1926 Hospital Boards became contributors on behalf of their nursing and clerical employees. With the consent of the Minister of Finance, State Departments contribute for nurses and other specialist officers, thus facilitating their transfer anywhere within the Government services without loss of pension rights.

To achieve uniformity in benefits and to make improved conditions of superannuation available to permanent employees of all local authorities, the Board was empowered in 1946 to vary the conditions and benefits in the original schemes and to issue a notice to all local authorities containing conditions and benefits under which any permanent employee might elect to become a contributing employee. Funds earlier established under the Local Authorities

Superannuation Act 1908 have been merged with the National Provident Fund, and there is now operating one uniform superannuation scheme to which all local authorities in New Zealand contribute; employees may move freely from employment in one local authority to another without sacrifice of accrued superannuation benefits.

The principle of voluntary membership introduced into State schemes extends to the National Provident Fund schemes and provision is made for the recognition, by agreement with the employing local authority, of General or Local Government service within the British Commonwealth or within New Zealand.

The Fund is the approved superannuation vehicle for statutory corporations and also provides facilities whereby registered educational institutions may provide superannuation for teachers, thus removing another artificial barrier to the free interchange of teachers in the educational services.

The benefits and contributions are similar to those operating in the Government Superannuation Fund, and there is provision whereby employees may transfer from local authority to State employment, and *vice versa*, without loss of accrued rights.

On retirement there are several options as to joint and survivorship or variable pensions which enable the income payable after retirement to be arranged to meet individual needs.

Since the inauguration of the Fund in 1911, 143,380 persons (99,536 males, 43,844 females) have joined the Fund, and of these 120,490 (80,994 males and 39,496 females) have discontinued for one reason or another, leaving 22,890 (18,542 males and 4,348 females) contributors at 31 December 1952. Of the 2,813 discontinuances in 1952, 1,837 were on account of withdrawal, 481 on account of lapse or cancellation, 73 on account of death, 301 on account of attainment of pension age, and 121 on account of transfer.

* If the child remains at school, these allowances may be continued up to attainment of age eighteen years.

The numbers of contributors for the various pension rates as at 31 December 1952 were as follows.

Pensions	Males	Females	Total
10s. per week	9,297	431	9,728
20s. per week	2,284	277	2,561
30s. per week	288	56	344
40s. per week	672	110	782
Superannuation	6,001	3,474	9,475
Totals	18,542	4,348	22,890

Summarized figures set out below for the years ended 31 December 1942, 1947, and 1952 form a useful basis for comparative analysis. Increased contributions and total income figures are attributable mainly to expansion in the superannuation branch.

	Year Ended 31 December		
	1942	1947	1952
New contributors	2,687	2,614	3,012
Total of contributors	28,508	25,722	22,890
Pensioners	1,229	1,983	2,860
Income—	£	£	£
Contributions	342,234	622,859	864,198
Interest (including fines)	248,416	306,023	419,425
Total income (including State subsidy)	695,648	1,099,777	1,500,948
Outgo—			
Pension payments	104,379	168,376	289,619
Other benefits	158,043	295,488	203,476
Total payments	266,149	467,425	494,737
Funds at end of year	6,862,358	9,586,611	13,644,892
Rate of interest per cent earned on invested funds	£3 15s. 9d.	£3 7s. 0d.	£3 4s. 7d.

The amount of the subsidy paid by the State on contributions paid to the Fund during 1952 was £196,011.

The next table presents an alternative comparison, the period covered on this occasion being the five years ended 31 December 1952.

Year	Number of Contributors	Annual Rate of Contributions Payable	Total Amount of Fund	Pensions and Allowances Paid During Year		
				Incapacity	Retiring	Widows' and Children's
			£	£	£	£
1948	24,456	468,565	10,181,854	13,806	203,004	45,348
1949	23,815	528,520	10,877,619	13,285	226,173	50,616
1950	22,796	577,967	11,713,561	13,158	246,032	50,927
1951	22,570	602,925	12,638,681	13,514	267,302	52,224
1952	22,890	705,303	13,644,892	12,677	289,619	53,975

Of the accumulated fund of £13,644,892 at 31 December 1952, £13,344,588 was invested, the principal classes of investment being Government securities, £5,659,186; local authority securities, £7,089,709; and mortgages, £584,201.

The following table sets forth the extent to which the facilities of the Fund are being utilized by local authority employees at 31 December 1952.

Class of Contributing Authority	Number in Each Class	Number Contributing in Each Class	Employees			Annual Contributions	
			Males	Females	Totals		
						£	
Cities and boroughs	138	92	1,870	204	2,074	149,605	
Counties	125	95	314	36	350	28,513	
Electric power Boards	43	38	641	40	681	54,555	
Fire Boards	24	19	170	2	172	18,768	
Harbour Boards	24	13	753	6	759	64,039	
Hospital Boards	43	43	658	2,873	3,531	184,696	
Sundry local authorities	316	40	373	9	382	27,588	
Schools		27	86	56	142	10,495	
Others		79	821	217	1,038	84,862	
Totals			446	5,686	3,443	9,129	623,121

7 E—FRIENDLY SOCIETIES

THE legislation dealing with friendly societies is contained in the Friendly Societies Act 1909 and its amendments. Provision is made for the registration of all societies and branches with the Registrar of Friendly Societies, and also for the general superintendence by the Government of the administration of the funds of the societies.

LODGES AND MEMBERS.—The table following gives the number of registrations (i.e., of friendly societies proper, or lodges, together with benevolent societies, working-men's clubs, etc., registered under the Act) and of lodge members as at 31 December of the years shown.

Name of Order	Registrations			Lodge Members		
	1950	1951	1952	1950	1951	1952
Manchester Unity Independent Order of Oddfellows	252	251	250	28,207	28,166	28,183
* Membership figures relate to "actuarial" societies only.						

Name of Order	Registrations			Lodge Members		
	1950	1951	1952	1950	1951	1952
Independent Order of Oddfellows	193	192	191	8,695	8,693	8,418
National Independent Order of Oddfellows	1	1	1	94	91	83
Ancient Order of Foresters	143	142	138	12,421	12,201	11,919
United Ancient Order of Druids	143	143	142	16,324	16,070	15,825
Independent Order of Rechabites	57	54	54	3,462	3,350	3,228
Order of Sons of Temperance	8	8	8	430	428	425
Sons and Daughters of Temperance	1	1	1	93	93	92
Hibernian-Australasian Catholic Benefit Society	80	80	80	3,791	3,823	3,775
Protestant Alliance Friendly Society of Australasia	12	12	12	580	565	537
Grand United Order of Oddfellows	10	10	10	259	248	251
Isolated friendly societies	70	69	68	635*	635*	643*
Working-men's clubs	23	24	24			
International Order of Good Templars	11	11	11			
Specialty authorized societies	19	18	17			
Totals	1,023	1,016	1,007	74,991	74,363	73,379
* Membership figures relate to "actuarial" societies only.						

Annual returns of receipts, expenditure, etc., of lodges are required by law. For the year 1952 the Registrar of Friendly Societies received returns from 845 lodges, with an aggregate membership of 73,379 at the end of the year, as compared with 852 lodges and 74,363 members for 1951. During the year 2,40 members were admitted by initiation, etc., and 483 by clearance; 1,243 died, 522 left by clearance, and 1,942 by arrears, etc.

The aggregate membership of lodges increased year by year, reaching a peak in 1930, when the total was 107,167. The economic depression probably accounted for the decrease in each of the following three years, the number at the end of 1933 being 100,237. A series of increases then commenced, the 1930 level being passed in 1936, and by 31 December 1938 a total of 113,709 had been reached. Each of the succeeding years, however, has witnessed a fall in membership, although the decrease in 1952 was comparatively slight. The number at the end of that year (73,379) was, however, 40,330, or 35 per cent less than in 1938. The various benefits under the social security scheme, particularly medical and hospital benefits (see Section 7A), have no doubt had a considerable effect on the membership of friendly societies. Circumstances arising from the late war may also have been a contributing factor.

The statistics given subsequently relate to the lodges (845 in 1952) for which returns were received and tabulated.

MORTALITY AND SICKNESS.—In the following statement of the mortality experience for the last five years no account has been taken of age incidence.

Year	Deaths or Members	Per 1,000 Members at Risk	Deaths of Members' Wives	Per 1,000 Members at Risk
1948	1,192	15.20	320	4.08
1949	1,147	14.87	356	4.61
1950	1,159	15.23	313	4.11
1951	1,202	15.97	357	4.74
1952	1,243	16.69	358	4.80

The number of members sick during 1952 was 13,616, equal to 18.9 per 100 members at risk. The sickness experienced during 1952 was 308,024 weeks, equal to 22 weeks 4 days per sick member and 4 weeks 2 days for each member at risk.

FUNDS OF FRIENDLY SOCIETIES.—The total funds of the societies and branches as at 31 December 1952 amounted to £7,331,341, made up as follows.

Funds	Amount	Assets	Amount
	£		£
Sick and Funeral Funds	5,653,716	Investments at interest	6,833,138
Surplus Appropriation Funds, etc.	920,058	Value of land and buildings	302,691
Management Funds, goods, etc.	349,121	Cash not bearing interest	154,653
Distress, Benevolent Funds, etc.	408,446	Value of goods	21,504
		Other assets	15,609
		Owing by Management Funds	4,346
Total	£7,331,341	Total	£7,331,341

The net income from investments credited to the Sick and Funeral Funds for 1952 amounted to £242,155, the average rate being £4 8s. 9d. per cent, as against £4 7s. 11d. in 1951.

There has been over many years a continuous increase in the amount of accumulated funds standing to the credit of friendly societies, the increase in the last ten years amounting to £1,540,820, or 27 per cent. The average capital per member has also appreciably increased, the gain in the last ten years amounting to £36 12s. 10d. (58 per cent). The substantial fall in membership over the last ten years has resulted in outstanding increases being shown for the average capital per member.

Year	Total Funds	Average Capital Per Member
	£	£ s. d.
1942	5,790,521	63 5 5
1943	5,897,959	67 0 4
1944	6,018,831	70 14 8
1945	6,135,413	73 18 0
1946	6,278,409	78 0 11
1947	6,419,523	81 15 5
1948	6,568,039	85 3 0
1949	6,706,713	88 4 5
1950	6,858,062	91 9 0
1951	7,126,449	95 16 8
1952	7,331,341	99 18 3

The contributions and entrance fees paid to Sick and Funeral Funds in 1952 amounted to £170,413. Divided by the mean number of members, the average for 1952 was £2 6s. 2d., as against £2 4s. 2d. for 1951.

The interest and rent received by the lodges and central bodies amounted to £242,155 in 1952, equal to £3 5s. 7d. per member, as against £3 2s. 8d. for 1951.

The amount of sickness benefit paid was £161,342 in 1952, equal to £11 17s. 0d. per member sick and £2 3s. 8d. per member, as against £11 16s. 11d. and £2 2s. 8d. respectively for 1951. Viewing the amount paid in relation to the weeks of sickness, the average benefit per week is found to be 10s. 6d. in 1952, as against 10s. 4d. for 1951.

The funeral benefit paid amounted to £74,843 in 1952, equal to £1 0s. 3d. per member, as compared with 18s. 9d. for 1951.

The total worth of the Sick and Funeral Funds at the beginning of 1952 was £5,505,949, and at the end of the year, £5,653,716.

Chapter 8. SECTION 8—JUSTICE

Table of Contents

LAW OF NEW ZEALAND.—The law applied in the Courts of New Zealand has three principal sources—the common law of England, certain statutes of the United Kingdom Parliament enacted prior to 1947, and statutes of the New Zealand Parliament.

The initial law of New Zealand when it became a British colony was the law of England as it existed on 14 January 1840—that is, the common law—together with those statutes of the United Kingdom Parliament which were applicable to the circumstances of the colony at that date. Subsequent law consists of those enactments of the United Kingdom Parliament between 1840 and 1947 which extended expressly or by necessary implication to New Zealand, and the enactments of the New Zealand Legislature.

In interpreting the common law the Courts have been concerned to preserve uniformity with the common law as it has developed in England. This unity is ensured not only by the existence of the Privy Council as the final Court of appeal for New Zealand, but by the practice of the Judges of following English decisions even though they are in theory not bound by them.

The New Zealand Parliament is now the sole authority with inherent power to legislate for the country, and there are no constitutional restrictions on the law which it can pass. Before the adoption by New Zealand of the Statute of Westminster in 1947 the powers of Parliament were limited to two respects. First, there was a somewhat uncertain and ill-defined incapacity to make laws having extra-territorial application, and, secondly, there was an incapacity to make laws conflicting with a statute of the United Kingdom Parliament extending to New Zealand. Since 1947, however, both these limitations have disappeared, although the United Kingdom Parliament still has the power to make laws extending to New Zealand at the request and with the consent of the New Zealand Legislature.

COURTS.—The hierarchy of Courts in New Zealand comprises the Court of Appeal, the Supreme Court, and the Magistrates' Court.

The Court of Appeal, unlike other Courts, exercises an appellate jurisdiction only. As constituted by the Judicature Amendment Act 1913 it comprises two divisions, a First and Second Division. Each division consists of five Judges of the Supreme Court appointed by the Governor-General in Council on the recommendation of the Chief Justice and two other Judges, there being no separate Judges of Appeal in New Zealand. The jurisdiction of the Court is exercised by each division at alternate sittings, but in important cases of special difficulty a joint sitting of both divisions may be authorized. The Judicature Act provides that the Court of Appeal shall sit at times and places appointed by the Governor-General in Council. In practice it almost invariably sits at Wellington. The decision of the Court is that of the majority of the Judges present, but if these are equally divided in opinion the decision appealed from is deemed to be affirmed.

An amendment of 1933 allows the Court of Appeal to hold special sittings at times and places appointed by Order in Council. This authority may be exercised only on a certificate of at least three Judges (including the Chief Justice) that it is not expedient to delay the hearing of the appeal. At a special sitting three or more Judges may exercise the jurisdiction of the Court whether or not they are members of the same division.

In addition to ordinary appeals from the Supreme Court certain other proceedings in inferior Courts may on an order of the Supreme Court be removed into the Court of Appeal for argument. It may be noted that the Court of Appeal also determines criminal appeals under the Criminal Appeal Act 1945, which is discussed later in the section.

All decisions of the Court of Appeal are final unless leave is granted to appeal to the Privy Council. This leave may be granted either by the Court of Appeal or by the Privy Council itself. The Privy Council thus remains the final Court of appeal in all civil cases and also occasionally hears appeals in special criminal cases.

The Supreme Court, which has existed since New Zealand became a British colony in 1840, is now constituted under the Judicature Act 1908. The Members of the Court are a Chief Justice and ten other Judges, the number being fixed by statute. The 1953 amendment provides, however, that an additional Judge or Judges may be appointed whenever the Governor-General deems it necessary by reason of absence or anticipated absence of any of the Judges on leave prior to retirement, each appointment being a permanent one from the time when it is made. This, together with the provision that the salary of a Judge shall not be diminished during his term of office, is an important safeguard for the principle of judicial independence. Judges, who retire at seventy-two, are appointed to hold office during good behaviour and may be removed only by the Queen upon an Address by the House of Representatives. The Governor-General may suspend a Judge upon a like Address.

Magistrates' Courts are now set up under the Magistrates' Courts Act 1947 and possess an extensive jurisdiction in both civil and criminal cases. The jurisdiction of the Court is exercised by Stipendiary Magistrates, whose number is limited by statute to thirty-five, there being twenty-nine at present holding office. Justices of the Peace, however, still sit as Magistrates' Court to hear a limited number of minor criminal charges.

Stipendiary Magistrates must have been qualified as barristers and solicitors of the Supreme Court for at least seven years. They are appointed by the Governor-General, and under the Magistrates' Courts Act 1947 may be removed by the Governor-General for inability or misbehaviour only. They retire at sixty-eight years of age.

Apart from these Courts of general jurisdiction there are in New Zealand several Courts with specialist functions. These include the Court of Arbitration, which makes awards governing pay and working conditions in industry, and also makes general wage orders; the Compensation Court, which determines claims under the Workers' Compensation Act; and the Land Valuation Court, which determines disputes over the valuation of land and hears claims for compensation when land is taken for public purposes.

JURIES.—The institution of the jury is regulated in New Zealand by the Juries Act 1908. Subject to certain exceptions, every male British subject (other than a Maori) between twenty-one and sixty-five years resident within a certain distance of a Supreme Court centre is liable to serve on a jury. A new list of exempted persons was enacted by the Juries Amendment Act 1951, the principal change being the removal of most Government servants from the class of exempted persons.

The following is a summary of the persons now exempted from jury service:

Members of the Executive Council and of the House of Representatives; Judges of the Supreme Court and of the Compensation Court; Judges and Members of the Court of Arbitration and of the Land Valuation Court; Judges and Commissioners of the Maori Land Court; Magistrates; Visiting Prison Inspectors; Coroners; the Chairman of the Local Government Commission; the Chairman and Members of the Licensing Control Commission; Officers of Parliament; clergy men; persons wholly engaged in teaching and school inspectors; barristers and solicitors; medical practitioners and dentists; registered chemists; members of the Armed Forces; members of the Police Force and Traffic Officers; pilots, masters, and crews of vessels; and certain officers of the Justice Department, including those engaged in Court or prison work.

Provision was made by the Women Jurors Act 1942 for women to serve on juries. Women between the ages of twenty-five and sixty who would be liable for jury service if they were men may have their names placed on the jury list, but there is no obligation for them to do so. In fact, very few women have volunteered for jury service.

Special juries are provided for in section 71 of the Juries Act. That section provides that in a civil action in the Supreme Court triable by jury either party may, by leave of the Court or a Judge thereof, procure trial by a special jury instead of a common jury. Except with the consent of all the parties, however, no action may be tried with a special jury unless in the opinion of the Court or a Judge difficult questions in relation to scientific, technical, business, or professional matters are likely to arise.

New Zealand still retains the Grand Jury as part of its legal system, although it has been abolished in most other countries outside the United States of America, where it performs a different function.

CIVIL JURISDICTION: Magistrates' Courts.—From the beginning of settlement in New Zealand there has existed a speedy and inexpensive forum for determining every-day disputes between citizens. From 1846 to 1925 there were two types of Lower Court, as well as the Supreme Court. Resident Magistrates' Courts (from 1893 called Magistrates' Courts) dealt with the smallest claims while larger minor claims were determined first by Courts of Requests, and from 1858 by District Courts.

The most important feature of this period was the gradual replacement of the three-tier structure by a two-tier structure as the jurisdiction of Magistrates' Courts became more extensive and the District Courts fell gradually into disuse. The jurisdiction of the Magistrates' Courts was considerably extended in 1893, but the main reason for the increasing importance of these Courts was the requirement first introduced in 1913, that every Magistrate should be a qualified barrister and solicitor. In 1925, District Courts were formally abolished, leaving the Magistrates' Courts and the Supreme Court as the sole Courts with general jurisdiction.

Before 1947 the jurisdiction of Magistrates' Courts was limited (a) as to amount, the maximum sum which could be claimed being £500, and (b) as to remedies, which virtually limited jurisdiction to claims for debt or damages.

The Magistrates' Courts Act 1947 revised the whole framework of Magistrates' Courts procedure which had been substantially unchanged for eighty years and brought it into line with present day jurisdiction and requirements. The jurisdiction of the Court was also widened. It may now hear all claims up to £500, but if the parties agree in writing that the Court shall hear their case it has jurisdiction whatever the amount claimed. In the exercise of this jurisdiction it may now grant the same remedies, legal and equitable, as the Supreme Court.

The following table shows the number of plaintiffs entered, cases disposed of, amounts sued for, and amounts for which judgment was recorded in the Magistrates' Courts during the last eleven years.

Year	Plaints Entered		Cases Disposed of		253,296
	Number	Total Amount Sued for	Number	Total Amount Claimed/Total Amount for Which Judgment Entered	
		£		£	
1942	32,484	495,038	21,582	306,926	
1943	22,337	353,736	15,027	215,764	175,315
1944	20,800	395,946	14,016	228,428	181,262
1945	20,184	412,327	12,890	277,579	193,785
1946	24,407	544,084	14,507	311,505	241,523
1947	28,332	694,873	16,724	422,046	345,472
1948	34,927	911,321	20,218	546,026	437,240
1949	34,403	994,291	17,694	550,362	463,995
1950	35,747	1,209,988	18,090	553,021	460,910
1951	38,966	1,331,375	20,111	733,562	588,300
1952	46,836	1,701,963	24,753	880,840	743,680

The average amount claimed in each plaintiff has risen from £15 in 1942 to over £36 in 1952.

Supreme Court.—The jurisdiction of the Supreme Court is twofold, original and appellate. It has by statute a general jurisdiction to administer the laws of New Zealand. One important aspect of this original jurisdiction is an inherent power to control inferior Courts and judicial tribunals through the writs of certiorari and prohibition. This is essentially a power to determine the limits of jurisdiction of other Courts and is to be distinguished from its appellate function by which the Supreme Court reviews a case which was properly heard and determined by a Lower Court. An appeal to the Supreme Court lies only where it is provided for by statute. With certain exceptions, all cases determined by the Magistrates' Court are subject to appeal to the Supreme Court.

The next table shows the number of actions commenced, cases tried, and judgments entered, together with the amounts for which judgments were recorded in the civil jurisdiction of the Supreme Court from 1942 onwards.

--	--

Year	Number of Actions Commenced	Cases Tried		Judgments Recorded	
		With Jury	Without Jury	Number	Amount
					£
1942	598	65	176	192	77,634
1943	555	51	182	158	48,400
1944	713	77	199	166	65,067
1945	779	86	209	159	116,739
1946	889	70	255	231	109,252
1947	1,055	84	225	197	110,595
1948	1,342	104	301	299	136,857
1949	1,208	108	295	241	158,202
1950	1,059	90	268	202	108,132
1951	1,135	91	224	218	169,440
1952	1,451	125	302	242	182,036

Court of Appeal.—During the five years 1948 to 1952 there were 118 civil appeals, of which 50 were allowed, and also 20 cases removed to the Appeal Court, resulting in 11 judgments for the plaintiffs and 9 for the defendants.

CRIMINAL JURISDICTION: Magistrates' Courts.—The criminal jurisdiction of Magistrates' Courts has gradually grown out of the general jurisdiction enjoyed in respect of minor offences by Justices of the Peace. The Court previously had power to deal with all summary cases—that is, cases where a statute provides that an offence shall be dealt with summarily. Magistrates have, however, now acquired by the Summary Jurisdiction Act 1952 (which came into force on 1 January 1953) jurisdiction to deal with the majority of indictable offences. This Act gives a Magistrate jurisdiction over all crimes against property and all but the most grave of other crimes, such as treason, homicide, and rape. If the Magistrate deals summarily with an indictable offence, he may impose a sentence of imprisonment of up to three years or a fine of up to £200. A Magistrate may however, decline to deal with an offence summarily, in which case the accused is committed for trial in the Supreme Court in the ordinary way. The accused person has, moreover, the right to claim jury trial if he is charged with any indictable offence punishable by imprisonment for more than three months.

Justices of the Peace now hear only a small number of summary charges and charges of theft up to £20. The tendency is to have all criminal cases dealt with by Stipendiary Magistrates, except in country districts.

The following table shows the number of criminal charges dealt with in Magistrates' Courts from 1942. These figures and all the figures relating to Magistrates' Courts, Supreme Court, and prisons include Maoris, but Children's Court cases are excluded and will be found under the section relating to juvenile offences.

Year	Number		Per 1,000 of Mean Population		
	Against Males	Against Females	Against Males	Against Females	
	Totals	Totals	Totals	Totals	
1942	35,353	2,714	38,067	44.10	3.24
1943	34,247	2,921	37,168	43.41	3.45
1944	36,880	3,168	40,048	46.16	3.70
1945	39,552	2,922	42,474	47.83	3.37
1946	44,863	2,699	47,562	51.06	3.06
1947	46,337	2,425	48,762	51.50	2.70
1948	50,006	2,756	52,762	54.43	3.01
1949	54,768	2,883	57,651	58.35	3.09
1950	55,536	2,915	58,451	58.18	3.05
1951	60,106	3,002	63,108	61.46	3.09
1952	78,536	3,666	82,202	78.26	3.69

As may be expected the great majority of these charges are for comparatively minor offences, particularly against the traffic laws, which alone account for three-fifths of the convictions in the Magistrates' Courts. Of the 73,960 convictions in the Magistrates' Courts in 1952, 45,060 were for minor traffic offences, 3,346 for offences against the liquor laws, and 5,740 for drunkenness.

The following table classifies the convictions in Magistrates' Courts into more common offences or groups of offences for the years 1948 to 1952. The figures refer to total charges, with the corresponding number of distinct cases following the totals in each year. Until the Summary Jurisdiction Act 1952 became effective the more serious cases, such as those of a sexual nature or those involving grave bodily injury, were not tried summarily, but were sent forward to the Supreme Court for trial or sentence, and consequently do not appear in this table.

Type of Offence	1948	1949	1950	1951	1952
Common assault	558	617	653	700	635
Other offences against the person	52	76	62	83	83
Theft	2,664	2,540	2,404	2,230	2,487
Wilful damage	404	426	405	392	365
Other offences against property (including forgery)	1,061	1,102	1,238	1,125	1,235
Drunkenness (including drunk in charge, etc.)	3,314	3,828	4,112	4,716	5,740
Application for prohibition order	771	814	749	783	835
Offensive conduct or language, obstruction, etc., of police, and vagrancy	2,707	2,764	2,538	2,810	2,998
Minor traffic offences	20,582	26,316	28,951	32,015	45,060
Other offences against good order	1,200	1,312	1,441	1,463	1,495
Breach of probation	160	133	167	126	138
Unlawfully on licensed premises and other breaches of Licensing Act	2,912	2,415	2,281	2,768	3,346
Failing to furnish return and making false return of land and income	293	319	283	1,063	2,241
Failing to pay maintenance	1,483	1,371	1,212	1,092	1,221
Deserting merchant ships	618	568	677	438	399
Breaches of price control orders	649	740	596	443	693
Other offences	4,691	4,659	3,828	3,881	4,989
Totals	44,119	50,000	51,607	56,128	73,960
Distinct cases*	36,858	42,092	43,909	47,460	62,434
* Counting only the principal offence in cases where a person is charged simultaneously with two or more offences.					

The total convictions (73,960) for 1952 represent a rate of 37.0 per thousand of mean population. The rise of 17,832 in the number of convictions for 1952 is made up mainly of the following increases:

Minor traffic offences	13,045
Failure to furnish income-tax returns	1,178
Drunkenness	1,024
Unlawfully on licensed premises, etc.	578
Theft	257
Breaches of price control orders	250

On the other hand, the convictions for common assault, wilful damage, and ship desertion showed decreases.

The next table classifies the result of hearing and punishment inflicted on summary conviction for all cases during 1952.

Result of Hearing	Offences Against the Person	Offences Against Property	Offences Against Good Order	Other Offences	Totals
Dismissed or withdrawn	201	529	2,278	3,403	6,411
Admonished and discharged	2	4	3	1	10
Committed for trial	220	376	31	18	645

Result of Hearing	Offences Against the Person	Offences Against Property	Offences Against Good Order	Other Offences	Totals
Committed for sentence	210	949	5	12	1,176
Released under Offenders Probation Act	70	1,051	128	201	1,450
Convicted and discharged	43	651	1,457	315	2,466
Convicted and ordered to come up for sentence	41	137	94	40	312
Committed to Borstal Institution, etc.	2	143	35	87	267
Fined	408	1,066	51,805	9,662	62,941
Imprisonment in lieu of fine	3	5	49	6	63
Peremptory imprisonment	142	959	695	369	2,165
Bound over	1	1	8	2	12
Order made		3	854	1,020	1,877
Convicted and ordered to pay costs	8	71	1,002	343	1,424
Suspended imprisonment			1	982	983
Totals	1,251	5,945	58,445	16,461	82,202
Distinct cases	1,091	3,233	51,067	12,307	67,698

Traffic Offences.—Traffic offences form so large a proportion of summary convictions that a further analysis is of interest. The most frequent traffic offences are excessive speeding and breaches of parking regulations. This is a feature common to many countries and is associated with the temptation provided by modern high-powered vehicles and with the congested streets of the main cities and towns.

The following table analyses convictions in Magistrates' Courts for traffic offences for the years 1948–52 inclusive.

Offence	1948	1949	1950	1951	1952
Negligent driving causing injury	2	3	1	14	18
Failing to stop motor vehicle after accident involving bodily injury	5	4		1	3
Unlawfully converting vehicle to own use	315	336	459	419	496
Drunk in charge of motor vehicle	394	416	464	603	704
Drunk in charge of other vehicle	7	12	6	8	7
Excessive speed in motor vehicle	3,087	5,312	6,398	6,165	9,945
Negligent or dangerous driving of motor vehicle	3,273	3,593	4,085	4,915	6,963
Negligent or dangerous driving of other vehicle	395	339	186	236	188
Breaches of regulations for the lighting of vehicles	2,315	3,040	2,314	2,395	3,154
Offences relating to the registration, etc., of motor vehicles	1,503	2,238	2,636	3,252	4,683
Offences relating to driver's licence	1,310	1,669	1,837	2,192	3,213
Breaches of parking regulations	4,664	5,719	7,139	8,716	11,339
Other traffic offences	4,035	4,400	4,354	4,144	5,575
Totals	21,305	27,081	29,879	33,060	46,288
Convictions per 1,000 of mean population	11.61	14.47	15.65	16.97	23.19

This table does not include the more serious cases involving death or injury which are sent forward to the Supreme Court for trial or sentence. In 1952, 21 such cases were sent forward and there were 20 sentences, comprising 8 for negligent or drunken driving causing death, 4 for negligent or drunken driving causing injury, and 8 for failing to stop after an accident involving injury.

Drunkennes.—The following table shows the number of convictions for drunkenness, together with the rate per 1,000 of mean population for each of the years 1948 to 1952.

Year	Convictions for Drunkenness/Per 1,000 of Mean Population					
	Males	Females	Totals	Males	Females	Totals
1948	3,174	140	3,314	3.45	0.15	1.81
1949	3,701	127	3,828	3.94	0.14	2.05
1950	3,944	168	4,112	4.12	0.18	2.15
1951	4,527	189	4,716	4.63	0.19	2.42
1952	5,553	187	5,740	5.53	0.19	2.87

Repeated charges against the same person are included in the totals shown in the preceding table, but the figures do not include technical convictions in cases of application for the issue of prohibition orders, of which there were 835 in 1952. After dropping to a record low rate of 1.54 convictions per 1,000 mean population in 1947, the convictions for drunkenness have been rising over the last few years, but are still lower than the figures for most years before 1940. In 1895 the proportion was 6.52.

Supreme Court.—Criminal cases in the Supreme Court are of two classes—those in which the accused person has pleaded guilty in the Lower Court and has been committed to the Supreme Court for sentence, and those actually tried in the Supreme Court.

The following table gives a summary of criminal cases dealt with in the Supreme Court during each of the last five years. Frequently a series of charges is preferred against the one offender and this serves to explain the distinction between total cases and distinct persons.

Year	Tried in Supreme Court				Sentences in Case of Committal for Sentence				Total Sentences
	Indictments and Informations		Convictions		M		F		
	M	F	M	F	M	F	M	F	Totals
<i>(a) Total Cases</i>									
1948	1,346	30	706	14	1,549	54	2,255	68	2,323
1949	983	35	476	20	1,201	21	1,677	41	1,718
1950	759	49	371	8	1,178	26	1,549	34	1,583
1951	746	33	291	10	1,235	38	1,526	48	1,574
1952	804	57	382	36	1,252	36	1,634	72	1,706
<i>(b) Distinct Persons</i>									
1948	344	15	225	7	461	24	686	31	717
1949	324	16	217	11	437	11	654	22	676
1950	315	16	195	7	425	15	620	22	642
1951	313	15	175	7	447	15	622	22	644
1952	311	19	207	16	455	26	662	42	704

Of the 330 distinct persons indicted during 1952, 223 were convicted and 96 acquitted, and no bill was returned or the prosecution was not otherwise proceeded with in the remaining 11 cases.

The next table summarizes the offences of persons convicted and sentenced in the Supreme Court during each of the last five years.

Year	Total Convictions and Sentences					Distinct Persons Convicted and Sentenced					
	Offences Against the Person	Offences Against Property	Forgery and Offences Against the Currency	Other Offences	Totals	Offences Against the Person	Offences Against Property	Forgery and Offences Against the Currency	Other Offences	Totals	
1948	319	1,692		239	73	2,323	200	475	16	26	717
1949	355	1,242		88	33	1,718	232	397	25	22	676
1950	409	1,083		75	16	1,583	279	328	25	10	642
1951	376	1,110		60	28	1,574	253	356	20	15	644
1952	409	1,202		53	42	1,706	270	395	20	19	704

The table which follows shows the number of distinct persons sentenced in the Supreme Court during each of the years 1942 to 1952, classified according to the principal types of offences.

Type of Offence	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
Murder	2	2	4	3	3	6	6	11	7	2	
Attempted murder	1	3	3	2	1	1					
Manslaughter	3	2	3	5	2	3	1	2	4	5	2
Traffic offences involving death or injury	6	7	9	17	24	37	22	49	30	19	20
Assaults and wounding	37	19	21	21	29	30	29	24	25	31	26
Sexual offences	126	106	113	122	134	149	119	155	186	177	198
Other offences against the person	24	24	23	25	22	27	23	16	23	13	22
Robbery, burglary, and breaking and entering	137	153	200	231	263	229	234	196	183	194	186
Theft, receiving, and fraud	64	130	125	140	135	214	232	177	129	147	191
Other offences against property	5	8	13	18	9	9	9	24	16	15	18
Forgery and uttering	22	25	16	17	25	14	16	25	25	20	20
Other offences	30	18	34	19	17	24	26	22	10	15	19
Totals	457	494	560	619	655	740	717	676	642	644	704
Per 10,000 mean population	2.79	3.02	3.38	3.65	3.72	4.12	3.91	3.61	3.36	3.30	3.52

From 1943 to 1947 there was a considerable increase in serious crime, an experience not by any means confined to New Zealand. Most other countries reported a similar trend, which might be regarded at least partly as a result of war conditions. With the exception of offences such as murder and sexual offences, the general tendency has been for the number of serious offences to fall since 1947.

Sentences imposed in the Supreme Court during 1952 were as follows:

Released under Offenders Probation Act	205
Convicted and discharged	2
Ordered to come up for sentence	8
Fined	47
Imprisoned	251
Sentenced to reformative detention	136
Ordered to be detained in Borstal institution	52
Death (one commuted to life imprisonment)	2

Seven of those sentenced to imprisonment received in addition a term of reformative detention and 16 were declared habitual criminals.

In 1941 the death sentence for murder was abolished. Life imprisonment was substantially changed by the Criminal Appeal Act 1945. Previously an appeal lay only on a point of law and was available both to the prosecution and to the accused. These provisions have been retained, but the Act for the first time gave a convicted person a general right of appeal to the Court of Appeal against conviction or sentence. The Act provides that any person convicted on indictment or committed for sentence may appeal to the Court—

a. Against his conviction on any ground involving a question of law;

b. With the leave of the Court or on the certificate of the Judge who tried the case, on any ground involving a question of fact or on any other ground deemed sufficient by the Court;

c. With the leave of the Court against the sentence passed unless it is one fixed by law.

The Act may quash the conviction, vary the sentence, or order the case to be retried in the Supreme Court.

The Act does not affect the Crown's prerogative of mercy, but contains a provision enabling the Governor-General to refer to the Court of Appeal any application for the exercise of the prerogative.

OFFENCES BY WOMEN.—Of the 82,202 criminal charges dealt with in the Magistrates' Court in 1952, 3,666, or 4.5 per cent, were against females. This figure showed a substantial increase on the 1951 total of 3,002. The comparable figure for 1947 was 2,425, which was the lowest recorded since 1933.

Most of the offences for which summary convictions are entered against women are of a trivial nature, such as minor breaches of traffic regulations.

Of the convictions for more serious offences during 1952, the most common were—

Attempted suicide	5
Common assault	19
Drunkenness	173
Theft	342
Fraud and false pretences	22
Offensive conduct or language	28
Vagrancy	58

Supreme Court statistics also showed that women in general are of a law-abiding disposition, only 42 females (5.97 per cent of the total) being sentenced in 1952 for criminal offences.

During 1952, 81 women were received into prison under sentence. The principal offences concerned were vagrancy, 22; theft, 31; receiving stolen property, 4; cruelty to children, 3; and breach of probation, 3. Corresponding figures for 1951 were 71, the principal offences being vagrancy, 18; theft, 24; and breach of probation, 6.

OFFENCES BY MAORIS.—As previously mentioned, Maoris are included in the statistical tables presented elsewhere in this section, the data given here being for purposes of comparison. According to the population estimate of 31 December 1952, 4.63 per cent of the total population of New Zealand aged fifteen and over were Maoris.

In recent years it has become increasingly difficult to classify, with any degree of accuracy, Maoris and non-Maoris in Magistrates' Court summons cases, and this classification has now been discontinued. However, an accurate classification can be arrived at in the case of arrests, and the following summary shows total charges for arrest cases in 1952. Figures for Europeans are quoted for comparative purposes.

—	Class of Offence				Total Charges for Arrest Cases			
	Against the Person	Against Property	Against Good Order	Other Offences	Males	Females	Totals	
Maoris	130	729	570	277	66	1,639	133	1,772
Non-Maoris	722	3,762	5,201	1,569	1,021	11,719	556	12,275
Totals	852	4,491	5,771	1,846	1,087	13,358	689	14,047

Of the total number of arrests and convictions 12.6 per cent and 13.1 per cent respectively were Maoris.

The total number of Maoris convicted and sentenced in the Supreme Court during the five years 1948 to 1952 was 588, or 17.4 per cent, of the total of 3,383. Of the 136 Maoris (including 5 females) sentenced during 1952, 106 were committed from Magistrates' Courts and 30 were tried and convicted in the Supreme Court. The following table shows the number of Maoris sentenced in the Supreme Court during each of the last eleven years, together with the percentage of Maori offenders to total persons sentenced in each case.

Year	Offences Against the Person		Other	Offences Against Property [†]		Total Offences [†]		
	Sexual Offences							
	Maoris Sentenced/Percentage of Total Sentences		Maoris Sentenced/Percentage of Total Sentences		Maoris Sentenced/Percentage of Total Sentences		Maoris Sentenced/Percentage of Total Sentences	

[†] Includes other offences.

Year	Offences Against the Person				Offences Against Property ^a				Total Offences ¹			
	Sexual Offences		Other		Sexual Offences		Other		Sexual Offences		Other	
	Maoris Sentenced	Percentage of Total Sentences	Maoris Sentenced	Percentage of Total Sentences	Maoris Sentenced	Percentage of Total Sentences	Maoris Sentenced	Percentage of Total Sentences	Maoris Sentenced	Percentage of Total Sentences	Maoris Sentenced	Percentage of Total Sentences
1942	22	17.5	17	23.3	30	13.2	70	15.3				
1943	26	24.5	9	16.7	41	13.4	78	15.8				
1944	25	22.1	7	11.9	45	12.7	78	13.9				
1945	39	32.0	13	18.1	89	21.9	143	23.1				
1946	34	27.4	15	18.3	69	16.0	124	18.9				
1947	32	21.5	19	18.8	87	18.7	140	18.9				
1948	24	20.2	14	17.3	84	17.1	127	17.7				
1949	32	20.6	15	19.5	57	13.5	104	15.4				
1950	41	22.0	11	11.8	56	15.9	108	16.8				
1951	43	24.3	12	15.8	57	15.2	113	17.5				
1952	53	26.8	14	19.4	67	16.1	136	19.3				

^a Including forgery and uttering.
¹ Includes other offences.

During 1952, 431 Maoris (including 33 females) were received into prison under sentence, this being 19.0 per cent of the total commitments. Of the 1,113 persons held in custody on 31 December 1952, 260, or 23.3 per cent, were Maoris. Corresponding figures for 1951 were 354 received under sentence (including 20 females), 17.9 per cent of the total commitments, and 1,076 held in custody on 31 December 1951, of which 228, or 21.2 per cent, were Maoris.

JUVENILE OFFENDERS.—Children's Courts were established in New Zealand under Part IV of the Child Welfare Act 1925, and are expressly designed to separate youthful offenders and children in need of protection from the atmosphere and associations of the regular Courts. All offences, except murder or manslaughter, committed by children under seventeen years are dealt with in Children's Courts, the procedure and rules of which differ widely from those of the ordinary Courts. In addition, when an offender between seventeen and eighteen years comes before a regular Court the Court may order his case to be heard in the Children's Court.

To fulfil the object for which Children's Courts were set up, the legislation prescribes that as far as possible persons attending a Children's Court shall not be brought into contact with persons attending any other Court. Unless an other suitable room is available, sittings of the Children's Court are not held in a courtroom, and where a Children's Court is in the same building as any other Court it does not sit when that other Court is in session. Proceedings in Children's Courts are not open to the public, and no report of them may be published except with the consent of the presiding Magistrate.

When a child was brought before a Children's Court and charged with any offence the Court was formerly not required to hear the charge against him. The law was changed in 1948, and all charges must now be heard and determined. It is not necessary, however, to record a conviction even if the charge is proved, and in practice convictions are not entered. The Court has power without recording a conviction to impose any penalty or make any order as if a conviction had been recorded.

The following table shows the number of cases dealt with in the Children's Court during each of the years 1942 to 1952 and (except for the years 1942 to 1946) the number of distinct cases—that is, excluding multiple charges against the same person.

Year	Total Cases			Distinct Cases		
	Males	Females	Totals	Males	Females	Totals
1942	4,357	617	4,974	*	*	*
1943	4,262	578	4,840	*	*	*
1944	3,850	526	4,376	*	*	*
1945	3,732	495	4,227	*	*	*
1946	3,175	458	3,633	*	*	*
1947	2,941	365	3,306	1,620	285	1,905
1948	2,948	424	3,372	1,650	343	1,993
1949	2,675	393	3,068	1,537	321	1,858
1950	3,185	477	3,662	1,772	364	2,136
1951	3,315	508	3,823	1,816	405	2,221
1952	3,910	453	4,363	2,118	345	2,463

* Not available.

Detailed statistics for Children's Court cases during each of the years 1947 to 1952 are as follows. The figures shown refer to total cases.

Type of Offence	1947	1948	1949	1950	1951	1952
Sexual offences	70	77	43	61	55	85
Assaults	31	38	40	36	28	33
Other offences against the person	7	4	4	6	9	6
Robbery, burglary, and breaking and entering	374	223	331	288	394	650
Theft, receiving, and fraud	1,425	1,566	1,361	1,703	1,564	1,715
Unlawful conversion of vehicles	283	222	167	227	299	360
Wilful damage	232	305	258	329	339	255
Other offences against property ^a	51	31	10	1	21	10
Offences against good order	266	233	251	297	351	505
Indigent or delinquent child	490	506	519	606	652	593
Other offences	77	127	84	108	111	151
Totals	3,306	3,372	3,068	3,662	3,823	4,363

^a Includes forgery and uttering.

The 4,363 cases heard during 1952 resulted as follows:—

Dismissed or withdrawn	153
Admonished and discharged	1,217
Committed to care of Child Welfare Branch of the Education Department	770
Placed under supervision	1,791
Committed to an institution	79
Fined	250
Otherwise dealt with	103

PROBATION.—By passing the First Offenders' Probation Act in 1886 New Zealand introduced the second Probation Act in the world. Originally it was intended that probation should only be used for first offenders guilty of trivial offences, but its scope was gradually widened. The present legislation, the Offenders' Probation Act 1920, applies to any offender guilty of an offence punishable by imprisonment either on indictment or summarily.

An offender may be released on probation for a period not exceeding five years, and during this time he must observe certain statutory conditions governing his behaviour and must accept the supervision of a Probation Officer. The statutory conditions of probation relate to such matters as reporting to a Probation Officer, employment and residence, associates, and general behaviour. In addition, the Court may impose particular conditions designed to assist his rehabilitation and to prevent further crime. At the end of his period of probation he is deemed to be a free man, but if at any time during the period he breaks any of the conditions on which probation has been granted to him he may be brought back to Court and becomes liable to a term of imprisonment or to a fine. In addition, he may be sentenced for the original offence for which he was placed on probation.

The probation method has come to be accepted as an integral part of the penal system and is widely used in New Zealand. The following figures show the number of persons released on probation during each of the past eleven years.

Year	Number Admitted to Probation	Year	Number Admitted to Probation
1942	637	1948	1,036

Year	Number Admitted to Probation	Year	Number Admitted to Probation
1943	896	1949	1,104
1944	920	1950	1,098
1945	886	1951	1,071
1946	919	1952	1,176
1947	972		

The next table gives the ages of offenders placed on probation during 1952, together with the period of their probation.

Age, in years	6 Months or Under	1 Year	18 Months	2 Years	3 Years	4 Years	5 Years	Totals
Under 20	14	114	15	185	43			371
20 and under 25	13	114	14	175	23			339
25 and under 30	7	62	9	94	16			188
30 and under 40	4	68	11	78	15		1	177
40 and under 50	1	21		24	7			53
50 and under 60	1	12	4	11	4			32
60 and under 70		3		7	2			12
70 and over		2		2				4
Totals	40	396	53	576	110		1	1,176

Probation is not punishment. It is intended to be and is a conditional suspension of punishment and provides the opportunity whereby the offender may, with the assistance and supervision of a Probation Officer, rehabilitate himself. The real purpose of probation is to prevent further offences, and it is more freely used in the case of first offenders and young offenders.

INQUESTS.—The law relating to inquests, which had previously been partly common law and partly contained in the Coroners Act 1908, was consolidated into a single code by the Coroners Act 1951. This Act provides for the appointment by the Governor-General of Coroners for New Zealand and defines their powers and duties.

An inquest may be held for the purpose of establishing—

- The fact that a person has died;
- The identity of the deceased person;
- When, where, and how the death occurred.

All inquests are held in public, but the Coroners Act 1951 repeated a common-law power to exclude persons from an inquest and to prohibit the publication of any part of the evidence. The power to prohibit publication has now been made subject to review by a Magistrate, unless the Coroner is himself a Magistrate.

The following is a table of inquests held during each of the eleven years from 1942 to 1952.

Year	Males	Females	Totals	Maoris (Included in Totals)
1942	1,183	516	1,699	126
1943	1,046	386	1,432	121
1944	1,010	379	1,389	131
1945	975	416	1,391	138
1946	1,071	401	1,472	154
1947	1,115	367	1,482	136
1948	1,085	427	1,512	112
1949	1,086	429	1,515	146
1950	1,150	382	1,532	173
1951	1,316	446	1,762	160
1952	1,031	357	1,388	106

The next table classifies inquests for the same period according to the verdict rendered.

Year	Disease and Natural Causes				Accident		Homicide		Suicide		Violent Deaths, Nature Unknown	
	M	F	M	F	M	F	M	F	M	F	M	F
1942	464	331	561	121	19	6	112	57			27	1
1943	350	176	566	165	9	6	93	36			28	3
1944	396	184	458	133	7	9	108	42			41	11
1945	390	233	414	103	16	10	112	51			43	19
1946	436	220	482	115	7	5	97	44			49	17
1947	486	183	498	132	5	6	103	29			23	17
1948	424	197	495	165	3	4	125	44			40	17
1949	407	216	524	141	2	9	112	56			41	7
1950	490	214	509	123	11	3	106	32			34	10
1951	529	249	612	131	8	8	131	50			36	8
1952	283	148	576	147	2	8	139	35			31	19

It will be noticed that in the case of disease and natural causes there are over twice as many inquests on males as on females. An even more arresting fact is that the incidence of suicide among men is from two to three times greater than among women, although in 1952 the number of male suicides was four times greater than among women. The small proportion of women among those whose death is due to accident is perhaps more to be expected.

Fire Inquests.—Coroners formerly had power to hold an inquiry into the cause of any fire destroying any building, ship, or merchandise, or any stack of grain, pulse, hay, or any growing crop. They have not possessed this power since the passing of the Coroners Act 1951, and fire inquiries may now be held under the Forest and Rural Fires Act 1947 or the Fire Services Act 1950.

PRISONS: Historical Development.—As is to be expected, New Zealand penological thought and practice in their origins reflected closely the ideas held and the system gradually evolved in Great Britain.

Early records are meagre. The first recorded prison was the result of difficulties which arose prior to the British assumption of sovereignty over this country. The white population at that time included many of the lowest types of man, and lawlessness and crime flourished. In 1838 an association of citizens was formed at Koororakea (now Russell) to provide for the administration of justice, and it is recorded that an old sea-chest ventilated by means of gimlet holes served as the first place of confinement for offenders.

In 1841 an ordinance provided for the institution of Courts of Justice and, as the colony developed, local gaols were established, though prisoners found guilty of the more serious offences were transported to Tasmania.

The first statutory provision dealing with prisons was passed in 1846. All buildings used at the time as public gaols were declared to be public gaols, and power was given to the Governor to declare other buildings public gaols. The Governor might make regulations prescribing the duties of officers, and the classification, diet, and treatment of prisoners. The appointment of Visiting Justices was also provided for. In 1854 the Secondary Punishment Act abolished the punishment of transportation and substituted penal servitude within the colony. Penal servitude was itself abolished in 1893.

Inconsistencies arose in the conduct of the prisons, and the state of affairs became so unsatisfactory that in 1868 a Royal Commission was set up to inquire into conditions. Although the Commission was extremely critical of what it found, little improvement or alteration was apparently made. In 1878 a special parliamentary committee was set up to inquire into prison conditions. The committee reported that the Government exercised no real control over the gaols or gaol officers in the country, and that the actual punishment varied from one district to another. Little or nothing had been done towards the classification of prisoners.

As the result of the committee's report the Government decided to reorganize the prison system and brought out one Captain Home from England (Dartmoor Prison) to undertake the work. When he retired in 1909 much had been done to improve the prison system and to pave the way for its development on lines at once more reformative and more appropriate to New Zealand conditions.

The first experiment in the direction of a roadmaking camp was made before the end of the century. At about the same time the first tree-planting camp was begun at Waioatapu, and was followed by others a few years later. For a variety of reasons the tree-planting camps later gave way to prison-farm camps. In their annual report for 1912 the then Inspector of Prisons and his deputy stated: "The undoubted advantage from all points of view of employing prison labour 'in the open' has been thoroughly demonstrated by the successful work of tree-planting operations since the initiation of the scheme, and for some time past it has been felt that an extension of the scheme to include

all classes of agricultural work should be attempted. It is considered that in a country like New Zealand the natural outlet is in the country and not in the towns. From a public point of view it has a very important bearing as it tends to prevent the aggregation of prisoners in the towns where, partly for lack of adequate equipment for earning their living, and partly owing to their return to their former environment, they often revert to crime".

There has since been gradual extension of the work in other directions. More prison farms have been opened. In 1914 Rotaira prison camp was established, and a start made with the work of road building, which has continued until the present day. The year 1921 saw the beginnings of land-development camps, the object of which is to utilize prison labour for the development of the land for settlement purposes.

Outdoor occupations are obviously not suitable for every prisoner, and various industries have therefore been commenced at different times, though some which have been tried have had to be abandoned later.

A milestone in the history of prisons in New Zealand was the Crimes Amendment Act 1910, sponsored by Sir John Findlay. This Act provided for sentences of reformatory detention for periods of up to ten years in the case of the Supreme Court and up to three years in the case of the Magistrates' Courts. It also set up a Prisons Board charged with the responsibility of inquiring into the case of every prisoner at least once a year and of making recommendations whether he should be released on probation or discharged. The reason prompting the institution of the sentence of reformatory detention was the lack of opportunity for any reformation or training during the short sentence that might be the maximum for a particular offence.

New Zealand in 1924 followed the example of Great Britain by providing for the establishment of Borstal institutions for the training of young offenders. These institutions, too, reflect the agricultural policy of the Prisons Department.

Present-day Administration.—The Prisons Amendment Act 1919 provides for the appointment of a Controller-General of Prisons who is charged with the administration of the Prisons Act 1908 and consequently has the general management of the prisons established under it. He is also responsible for the administration and general management of the Borstal institutions. In both cases he is subject to the control of the Minister of Justice in matters of policy.

The sentences of detention which the Courts may impose are as follows:

1. Imprisonment for a stated term of years or for life.
2. Reformatory detention for a period up to a maximum of ten years where the sentence is imposed by a Judge, and up to three years where it is imposed by a Magistrate. The sentence may be reviewed at any time after its commencement and a recommendation made for the offender's discharge or for his release on probation.
3. Declaration of habitual criminal or habitual offender. This is in addition to a fixed term of imprisonment. After the end of the fixed term the prisoner so sentenced is detained in prison during the pleasure of the Governor-General. When he is released it is always on probationary licence, and a breach of that licence or a fresh offence while it exists makes him liable to recall to prison to continue serving the sentence.
4. Borstal detention where the offender is not less than fifteen or more than twenty-one, or in some cases twenty three years of age. The minimum and the maximum terms are two years and five years where the order of detention is made by the Supreme Court, and one year and three years where it is made by a Magistrate. At any time after the commencement of detention a Borstal inmate's case may be reviewed and he may be released on licence, which normally remains in force until the end of the term for which he was ordered to be detained.

There are sixteen prisons, reformatories, and Borstal institutions in New Zealand, and twenty-one police gaols. Any person serving a sentence of not more than seven days may be detained at any police station, which is deemed to be a prison for that period.

A summary of receptions and discharges during the year 1952 is given below.

	Males	Females	Totals
In confinement 1 January 1952	1,012	64	1,076
Distinct prisoners received during year	2,187	81	2,268
Transfers between institutions, etc.	2,048	152	2,200
Discharged during the year—			
Transferred to other prisons or to police	1,389	102	1,491
On expiration of sentence	1,784	48	1,832
Released on bail	187	7	194
Released on recommendation of Prisons Board	466	22	488
Released on special remission	249	14	263
Debtors	44		44
Mental defectives	12	2	14
Other	71	31	102
In confinement at 31 December 1952	1,042	71	1,113
Daily average number in confinement during year	1,047	73	1,120

* Further analysis in next table.

The total of 4,468 receptions during 1952 shown in the above table was arrived at by counting each person once every time received, whether by the same prison or not.

The total of receptions is further analysed in the following table.

Debtors and mental defectives	53
Transfers between institutions	1,106
Acquitted, fined, placed on probation, etc.	691
Multiple receptions of same prisoner	356
Distinct prisoners received under sentence	2,268
Totals	4,474
Less difference between number held on remand at beginning and end of year	6
Totals	4,468

Of the different classes of receptions into prison shown above the important figure is that of distinct persons received under sentence—that is, counting each sentenced person once only during the year, irrespective of the number of separate terms served. Of the 2,268 distinct persons received during 1952, 2,187 were males and 81 females. Corresponding figures for 195 were 1,975 distinct persons, 1,904 being males and 71 females.

An analysis is given below of distinct persons received into prison according to the nature of sentence for each of the years 1948–52.

Nature of Sentence	1948	1949	1950	1951	1952
Hard labour or simple imprisonment*	1,826	1,412	1,665	1,601	1,916
Reformatory detention	204	237	251	218	199
Borstal detention	105	109	113	131	128
Hard labour and reformatory detention	37	27	39	14	12
Declared habitual criminal and sentenced to hard labour	7	3	12	10	12
Reformatory detention and declared habitual criminal	1				
Hard labour, reformatory detention, and declared habitual criminal	1				
Death				1 [†]	1
Totals	2,181	1,788	2,080	1,975	2,268

* Includes 4 prisoners sentenced to life imprisonment in 1949 and 7 in 1950; also prisoners declared habitual offenders, 1 in 1951 and 3 in 1952.

† Sentence commuted to imprisonment for life.

The next table shows the number of persons in prison at 31 December in each of the last eleven years.

At 31 December	Persons in Gaol			Proportion Per 10,000 of Population as at 31 December	
	Undergoing Sentence	On Remand and Awaiting Trial, etc.	Total	Undergoing Sentence	Total in Confinement
1942	1,034	30	1,064	6.32	6.50
1943	1,024	53	1,077	6.24	6.56
1944	945	48	993	5.64	5.92
1945	998	42	1,040	5.78	6.02

At 31 December	Persons in Gaol			Proportion Per 10,000 of Population as at 31 December	
	Undergoing Sentence	On Remand and Awaiting Trial, etc.	Total	Undergoing Sentence	Total in Confinement
1946	992	40	1,032	5.57	5.79
1947	1,088	49	1,137	5.99	6.26
1948	986	39	1,025	5.32	5.53
1949	941	50	991	4.97	5.23
1950	1,043	40	1,083	5.41	5.62
1951	1,040	36	1,076	5.28	5.46
1952	1,083	30	1,113	5.35	5.50

The number of distinct persons received into prison under sentence of imprisonment during the last eleven years, with the proportion per 10,000 of mean population, is given in the next table. Debtors received into gaol are excluded.

Year	Number	Per 10,000 of Mean Population	Year	Number	Per 10,000 of Mean Population
1942	3,029	18.47	1948	2,181	11.89
1943	2,482	15.17	1949	1,788	9.55
1944	2,099	12.68	1950	2,080	10.90
1945	2,065	12.19	1951	1,975	10.14
1946	2,213	12.58	1952	2,268	11.36
1947	2,351	13.07			

The large increase in the number of persons sent to prison during 1942 was accounted for by the committal or transfer of over 500 military defaulters to prison, and about 400 persons involved in industrial disputes. None of these latter actually served any sentence, a remission being granted immediately after reception. The changes in the totals of receptions since 1946 are largely due to sentences imposed on ship deserters, the tables for 1949, 1951, and 1952 showing some falling off in the number in this category.

The Aim of the Prisons Administration.—The object of imprisonment is protection of society; this object may be achieved by the processes of deterrence and reformation. Offenders are sent to prison as a punishment, but not to be punished in prison. The principal task of the prisons administration is to attempt reformation in every case offering any hope of success. It is also necessary to balance the demands of reformatory training and security. The interests of the community as well as of the offender demand that so far as possible the time spent in prison should be so used as to bring about the greatest likelihood that the prisoner will lead a law-abiding and socially purposeful life on his discharge.

Classification of Prisoners.—The classification of prisoners in New Zealand has been, and for the most part still is, based mainly on the age of the offender and the extent of his criminal experience, but account is also taken of his character and of the nature of the offence. The aim has been to prevent contamination of young and first offenders by more hardened criminals and undesirables.

However desirable it may be to have a more elaborate system of classification, the practical effect of this would be severely limited so long as there are a number of widely separated prison institutions, each holding a comparatively few prisoners. Government approval in principle has been given to a proposal for the establishment on one site of a group of graded institutions to hold all types of offenders from every part of New Zealand. When this proposal can be brought to fruition there will be an opportunity to provide whatever classification scheme is thought desirable.

In the meantime experimental classification committees have been set up at Auckland, Wellington, and Christchurch Prisons, which are the three main reception centres. The committees consist of the Superintendent of the institution, the Probation Officer for the district, a Vocational Guidance Officer, and a psychologist. It is intended that the prison welfare officer and a psychiatrist shall be added to each of the committees as has been done in Auckland. The function of the committee is to consider individual reports of members on a prisoner and to advise the prisons administration as to location, employment, educational and recreational activities, eventual release plans, and any other matters concerning the individual prisoner.

The following table analyses the ages and offences of distinct persons received into prison under sentence during 1952.

Age, in years	Offences Against the Person			Burglary, Theft, and Fraud	Conversion, Willful Damage, etc.	Vagrancy and Drunkenness	Other Offences	Totals
	Sexual Offences	Assaults	Other					
Under 20	9	7		72	20	11		87
20 and under 25	24	49	4	154	49	78		163
25 and under 30	17	26	9	146	37	69		142
30 and under 40	42	26	6	159	19	110		141
40 and under 50	23	12	3	78	1	117		86
50 and over	18	10	3	60	4	113		64
Totals	133	130	25	669	130	498		683
Maoris (included above)	37	44	4	160	44	74		68

The next table gives particulars of ages and length of sentence of persons received into prison under sentence during 1952.

Age, in years	Length of Sentence							Other	Totals
	Under 1 Month	1 Month and Under 3 Months	3 Months and Under 12 Months	1 Year and Under 3 Years	3 Years and Under 5 Years	Over 5 Years			
Under 21	26		130	14	104	27		301	
21 and under 25	116		172	54	69	15		426	
25 and under 30	126		164	70	67	15	3	446	
30 and under 40	167		128	88	99	19	2	503	
40 and under 50	128		87	53	42	9	1	320	
50 and under 60	79		60	35	17	5	2	198	
60 and over	43		15	8	7	1		74	
Totals	685		756	322	405	91	8	2,268	

* Sentenced to death and executed.

Of the total of distinct persons received into prison in 1952 no less than 57.9 per cent had been convicted for an offence on at least one previous occasion, and 24.3 per cent of these had been convicted more than six times.

Measures Employed in Treatment.—This section may conveniently be dealt with under five heads—education and training; system of earnings; amenities and recreations; punishments; and aftercare.

Education and Training.—Attendance at educational classes is compulsory for all prisoners whose standard of education is considered insufficient. Full-time teachers have been appointed in two institutions and a qualified part-time teacher attends other major institutions. Inmates are grouped according to their educational standards. Where it is not possible for a teacher to visit an institution the work is done through the Correspondence School, and the services of that school are usually availed of if a prisoner wishes to do more advanced scholastic work or to undertake a course of study in a technical subject. In many cases the work done in prison provides an occupational training for an offender, but trade training and instruction in the various aspects of the primary industries and in other callings for which some may be fitted can be developed further. Education for leisure is being increasingly provided. The object of the Department in this aspect of penal work is the development in as many inmates as possible of—

- a. Skills which will enable them to return to civilian life better equipped to make a living;
- b. Interests which will enable them on release to enter more fully into the life of the community; and
- c. A better attitude towards society and a greater appreciation of their place in the community and their responsibility towards it.

Earnings.—All prisoners are credited with industry earnings based on a system of marks assessed according to industry and good conduct. The present system has been in operation for several years, and is proving itself beneficial. Volume and quality of production have increased and a better spirit has been engendered in the prisoners themselves and in the institutions as a whole.

Amenities and Recreations.—A canteen system is now in operation in each institution, and prisoners are allowed to spend a proportion of their earnings on a small range of goods. A certain amount is put into the canteen account for each person and accumulates there if the full sum is not spent every week, though the Superintendent may have some transferred to the prisoner's earnings account if too much is being accumulated.

Visits and letters are allowed regularly, and visiting is mostly unattended.

At present the National Library Service is largely responsible for library books. Each institution has a certain number of books which are replaced every three or four months. In addition, a request service enables prisoners to obtain any particular books they require or books on any particular subject in which they are interested.

Punishments.—(a) PRISONS: The general rule is that prison officers are not permitted to inflict punishment. The Superintendent has power to curtail certain privileges and to place a prisoner in isolation for not more than a day. In cases of urgent necessity he may place a prisoner under mechanical restraint, but not as a punishment.

The power to hear complaints of offences by prisoners is given to the Visiting Justices appointed under the Prisons Act 1908 to visit and inspect the prisons. They have power to inflict certain punishments for minor offences, and to bring the prisoner before a Magistrate in open Court for major offences. Corporal punishment is not permitted.

(b) **BORSTALS.** The Superintendent has power to punish an offender by depriving him for any period not exceeding one month of any privileges or of one or more items of the diet, provided in the latter case that it does not materially reduce the food allowance. If he considers that the offence warrants the infliction of more severe punishment, he may report the offender to the Chairman of the Visiting Committee appointed for the institution. The Chairman may refer the case back to the Superintendent or may himself inflict certain punishments.

Aferece.—Prisoners serving a term of Borstal training, reformative detention, or twelve months or more imprisonment may be released on licence. For a period of time, usually the unexpired portion of their sentence, they will be under the supervision of probation officers and are subject to recall if their behaviour on release is unsatisfactory.

This period of supervision has a dual purpose—it is a protection to the community against further offending, and it is at the same time an aid to the prisoner to re-establish himself. The step from custody to freedom is a difficult one for prisoners, many of whom require assistance, advice, and discipline during this period.

Prisons Board.—Cases of all prisoners undergoing sentence are reviewed from time to time by the Prisons Board, which consists of a Judge of the Supreme Court, and six other members, all being appointed by the Governor-General for three years and eligible for reappointment.

The main duty of the Board is to consider whether there is reasonable ground for thinking that any prisoner under sentence is sufficiently reformed either to be released on probation or discharged. The Board is required to take into consideration at least once a year the case of every habitual criminal, habitual offender, or person under sentence of reformative detention. Other classes of prisoners are not entitled to consideration until they have served at least half the sentence (or five years in the case of those sentenced to terms exceeding ten years), and no case is considered until six months after the prisoner is received into prison.

The cases considered by the Board during each of the years 1948 to 1952 are as follows.

Year	Borstal Detention	Reformative Detention	Hard Labour	Habitual Criminals	Probationers		Totals
					Crimes Amendment Act	Offenders Probation Act	
1948	251	496	248	37	14	10	1,056
1949	231	461	238	36	11	28	1,005
1950	285	502	225	34	11	20	1,077
1951	237	499	237	47	13	14	1,047
1952	282	445	245	42	8	23	1,045

Of the cases considered in 1952, recommendations were made for release on probation in 543 cases. Sixteen probationers under the Offenders Probation Act were ordered to be discharged, and 4 were granted modifications of the conditions of probation. Three under the Crimes Amendment Act were recommended for discharge, and three were granted modified treatment. Eight petitions were declined, while the remaining 468 cases were deferred.

POLICE FORCE.—The Police Force in New Zealand is a national body maintained wholly by the General Government. It was established under the provisions of the Police Force Act 1886, which came into operation on 1 September of that year. Prior to that date police duty in New Zealand had been carried out by members of the Armed Constabulary, which was then disbanded, and was transferred to the newly constituted Police Force and others to the Permanent Militia. The Police Force Act 1886, consolidated in 1908, was revised and brought up to date by the Police Force Act 1913, and minor amendments were enacted in certain subsequent years. In 1947 Act to consolidate and amend the law relating to the establishment and regulation of the Force was passed, and the Police Force Act 1947, as amended in 1951 and 1952, is the statute under which the Force now functions.

Organization and Duties.—The Commissioner of Police, with headquarters at Wellington, has, subject to the directions of the Minister in Charge of the Police Department, the general superintendence and control of the Police Force. The Commissioner is assisted by an Assistant Commissioner, provision for this appointment having been made in the 1951 amending Act. New Zealand is divided into fifteen districts, each under the charge of a Superintendent or Inspector of Police, who is responsible to the Commissioner for the maintenance of good order and the proper execution of police duty therein. Districts are divided into sub-districts under the charge of sergeants or constables, and cities and towns where regular beat duty is performed are divided into beats, patrolled by constables under the supervision of sergeants.

The principal duty of the Police Force as defined by the Police Force Act is "the preservation of peace and order, the prevention of crime, and the apprehension of offenders against the peace". In addition to the enforcement of the criminal law and the provisions of the Police Offences and the Official Secrets Acts, there are several statutes of a regulatory nature which the police are called upon to administer, wholly or partly, such as the Arms Act, Licensing Act, Gaming Act, Dangerous Drugs Act, Transport Act, Pawnbrokers Act, Secondhand Dealers Act, etc. They also undertake inquiries and other duties on behalf of other Departments of the Government Service, principally the Social Security Department, Registrar-General's Office, Internal Affairs Department, and Education Department (Child Welfare Branch).

Police in country districts in many cases hold such additional appointments as Clerks and Bailiffs of Magistrates' Courts, Inspectors of Factories, Probation Officers, Inspectors of Sea-fishing, and Kauri-gum Rangers.

Recruiting.—In general, recruits for the Police Force must be between the ages of twenty-one and thirty-two years, be not less than 5 ft. 9 in. in height, and have a normal chest measurement of not less than 38 in. There is provision, however, to accept suitable recruits from the age of nineteen years, and men with previous police experience up to forty years of age may also be admitted to the Force. Recruits must be the holders of a certificate of school attainment for Form II, or possess educational qualifications of an equal or higher standard. They must be of good moral character, smart, active, intelligent, and free from bodily complaint or infirmity. The selection of recruits is made by the Commissioner after exhaustive inquiries have been made into the character, antecedents, and qualifications of the applicants. Before appointment they undergo a course of training in the Training Depot, in which they are drilled and receive instruction in the duties they will be called upon to perform.

Appointments to vacancies in the higher ranks of the Force are made from those members of the next lower rank who have qualified by examination, efficiency, and seniority for such promotion.

Members who show an aptitude for detective duty are detailed for service in the Criminal Investigation Branch which is attached to each district headquarters and undertakes the investigation and detection of the more serious crimes.

Strength of Force.—In addition to the Commissioner, the strength of the Police Force on 31 March 1953, was 1,601, being an increase of 13 during the year. The total was made up as follows: 1 Assistant Commissioner, 10 Superintendents, 20 Inspectors, 12 Sub-Inspectors, 59 Senior Sergeants, 169 Sergeants, 1,059 Constables, 144 Temporary Constables, 18 Senior Detectives, 52 Detective Sergeants, and 57 Detectives. There were also 47 Police-women, 7 Matrons, 11 Police Surgeons, and 1 District Constable.

The following table shows the strength of the Police Force during the last eleven years.

As at 31 March	All Officers	Non-commissioned Officers (Uniform Branch)	Criminal Investigation Branch (excluding Officers)	Constables	Totals
1943	30	175	112	1,324	1,641
1944	32	173	116	1,314	1,635
1945	38	168	110	1,250	1,566
1946	35	174	103	1,164	1,476
1947	39	208	97	1,154	1,498
1948	37	212	94	1,178	1,521
1949	36	224	103	1,179	1,542
1950	36	220	106	1,177	1,539
1951	41	222	110	1,195	1,568
1952	37	230	119	1,203	1,589
1953	44	228	127	1,203	1,602

* Not including surgeons, police-women, matrons, etc.

The proportion of police to population at 31 March 1953 was 1 to 1,273, and the expenditure during 1952-53 per head of population 14s. 11d.

Women Police.—By the Statutes Amendment Act 1938 provision was made for the appointment of women police, it being enacted that the terms of the Police Force Act shall apply to women appointees. The Police Force Act 1947, which repealed the relevant section of the earlier legislation mentioned above, provided that the term Police Force was to include all members of either sex appointed under the Act. The first 10 appointees completed their training and commenced duty in October 1941. The present strength is 47, all of whom are stationed in Auckland, Wellington, Palmerston North, Christchurch, or Dunedin. Their duties consist mainly of investigating complaints in respect of women and children, and their work is confined largely to their own sex.

Chapter 9. SECTION 9—DEFENCE AND REHABILITATION

Table of Contents

[9 A—DEFENCE](#)

[9 B—REHABILITATION](#)

9 A—DEFENCE

CONTROL AND CO-ORDINATION OF DEFENCE.—In New Zealand control and co-ordination of defence activities are obtained through the Defence Council, the appointment of one Minister of Defence in charge of the three Services, and through a series of inter-Service committees. The comparative simplicity of defence problems in New Zealand has required neither the appointment of a Minister of Defence directing subordinate Ministers in charge of each Service nor the establishment of a Department of Defence superior to the Navy, Army, and Air Departments. Co-ordination is facilitated by the presence in the Prime Minister's Department of a Defence Secretariat serving the main policy-forming committees and performing some of the functions which in other countries are handled by Departments of Defence.

Defence Council.—The Defence Council consists of the Prime Minister, the Minister of Defence, and other Ministers concerned with various aspects of national security. The Chiefs of the Naval, General, and Air Staffs, and the Secretaries of the Treasury and of External Affairs, attend meetings of the Council in a consultative capacity. The purpose of the Council is to keep defence policy and organization constantly under review, including questions of co-operation on defence with other countries of the British Commonwealth and military questions arising as a result of New Zealand membership of the United Nations.

Chiefs of Staff Committee.—The Chiefs of Staff Committee, comprising the Chiefs of the Naval, General, and Air Staffs, is responsible for advising the Government on defence policy and strategic questions. It is served by several inter-Service committees dealing with various subjects such as strategic and operational plans, intelligence, and communications.

Principal Administrative Officers' Committee.—This Committee consists of the Senior Personnel, Supply, and Finance Officers of each of the Services and a representative of the Treasury. For the convenient exercise of its functions the Committee normally divides into separate Supply and Personnel Committees, each of which is assisted by subordinate committees considering particular problems such as medical arrangements, recruiting, and the design and provision of clothing and other stores.

Co-operation With Other Countries.—In order that contact might be maintained with other countries, New Zealand Joint Service Liaison Staffs are stationed in London, Melbourne, and Washington. Similarly, both United Kingdom and Australia have Service Representatives in Wellington attached to the Offices of their respective High Commissioners, and there is a Military Attaché on the staff of the United States Embassy in Wellington.

Industrial War Potential.—Planning in respect of the demands which in war or on the threat of war the Services would make on industry is the task of the Joint War Production Committee. This Committee, which reports to the Government through the Minister of Industries and Commerce, is centred in the Department of Industries and Commerce. It consists of the Secretary of the Department of Industries and Commerce (Chairman), and representatives of the Treasury, the Department of Scientific and Industrial Research, the Prime Minister's Department, and the Senior Supply Officers of the Services.

Defence Science.—Defence science activities in New Zealand are guided by an executive committee, comprising the Chiefs of Staff and the Secretary of the Department of Scientific and Industrial Research, and known as the Defence Science (Policy) Committee. Research projects approved by the Defence Science (Policy) Committee are carried out by the Department of Scientific and Industrial Research, usually within its existing laboratories, but, if necessary, a special organization may be brought into being. To foster basic research in fields having defence implications the University colleges are assisted in a limited number of approved projects by grants from defence science funds. Defence research expenditure is wholly provided on the vote of the Department of Scientific and Industrial Research, with the exception of the Defence Scientific Corps, which is provided on the votes of the respective Services.

The Defence Science (Policy) Committee is served by the Joint Plans Committee (Science), comprising senior Service and Department of Scientific and Industrial Research officers and technical sub-committees of Service and scientific composition. It is aided by a group of advisory members consisting of non-Government scientists and experts. The Policy Committee with its supporting groups is known as the Defence Research Organization.

In order to build up a group of scientific workers with an insight into Service requirements the Defence Scientific Corps of the New Zealand Military Forces was established in 1948. The purpose of the Corps is to aid New Zealand and Commonwealth defence research. These men are recruited (approximately six per annum) at Master of Science level to one of the Services on a short-term commission basis of five or six years. After an initial Service training period of up to six months they undertake post-graduate training at Universities and/or research establishments, either in New Zealand or the United Kingdom, for two to three years. For the remaining period of their commission they are employed in New Zealand, or wherever it is most appropriate within the Commonwealth, on problems related to defence requirements.

The Defence Science programme is co-ordinated with Commonwealth requirements through the Commonwealth Advisory Committee on Defence Science or by direct negotiation with other Commonwealth Governments. A number of scientists have been seconded to work on projects in other Commonwealth countries.

LEGISLATIVE AUTHORITY FOR THE ARMED SERVICES.—The principal statutes now governing the Armed Services are as follows: Army, the New Zealand Army Act 1950, the Military Manoeuvres Act 1915; Navy, the Naval Defence Act 1913, the Naval and Victualling Stores Act 1908; and Air Force, the Royal New Zealand Air Force Act 1950.

Two other Acts of general application, though the first affects the Army to a greater extent, are the Military Training Act 1949 and the Courts-Martial Appeals Act 1953. The latter provides for the establishment of a special Court of Appeal for the Navy, Army, and Air Force, to which persons convicted by a Court-martial may appeal against conviction.

The Court is to consist of an uneven number of Judges (not fewer than three), of whom one is a Judge of the Supreme Court and the others either Judges, barristers, or former Judges of the Supreme Court.

The Courts-Martial Appeal Court is empowered to allow an appeal if it thinks that the finding of the Court-martial is unreasonable, or cannot be supported having regard to the evidence, or involves a wrong decision on a question of law, or that on any other ground there was a miscarriage of justice. The Court may dismiss any appeal if it considers that no substantial miscarriage of justice has actually occurred. When the Court allows an appeal it may direct either an acquittal or a new trial.

The Court may also substitute what it regards as another lawful conviction for the conviction appealed from, and it is empowered to substitute where necessary an appropriate sentence for the sentence of the Court-martial without increasing the sentence.

The decision of the Court on any appeal is to be final unless the Attorney-General grants a certificate that a point of law of exceptional public importance is involved and that another appeal is desirable in the public interest, in which case it may be made to the Court of Appeal.

The Military Training Act 1949.—Under the Military Training Act 1949 every British male subject ordinarily resident in New Zealand is liable to be called upon to serve three terms of service on attaining the age of eighteen years. Provision is made for exemptions, principally in the case of conscientious objectors, and also for deferment in the cases of students and others.

The service is as follows:

- A period of whole-time service of fourteen weeks, which is served in a training camp. This period has been temporarily reduced to 10½ weeks with the aim of building up establishments more quickly.
- A period of part-time service of three years during which a total of sixty days, made up of fourteen days in-camp and six days out-of-camp training each year, must be served.
- A six-year term of service in the Reserve, involving no training liabilities.

The 1951 amendment to the Military Training Act extended its operation to men who were over the age of eighteen years but under the age of twenty years on 1 November 1949. Those over eighteen but under nineteen on that date were made liable for service in the normal way (except that the period of part-time service has now been reduced to one year's duration), and those over nineteen but under twenty years were liable to register and be medically examined and to serve four years in the Reserve. The 1953 amendment extended liability to male British subjects becoming resident in New Zealand after the age of eighteen and under twenty-one years.

THE ROYAL NEW ZEALAND NAVY.—Since 1877 the New Zealand Government has made a financial contribution towards maintaining Royal Navy ships in New Zealand waters. The Naval Defence Act was passed in 1913 to provide for the maintenance of a sea-going Naval Force and a training centre under the immediate control of the New Zealand Government. The First World War intervened, but in 1921 this policy was implemented and the Naval Force was given the designation "The New Zealand Division of the Royal Navy." In 1941 His late Majesty King George VI graciously approved the proposal that the New Zealand Naval Forces should be designated "The Royal New Zealand Navy."

Command and Administration.—The Royal New Zealand Navy is controlled by the New Zealand Naval Board, which consists of—

The Minister of Defence as Chairman.

A Commodore, 2nd Class, as First Naval Member and Chief of the Naval Staff.

A Captain as Second Naval Member and Member for Personnel.

A Captain (S) as Third Naval Member and Member for Supply.

An officer of the New Zealand Public Service as Navy Secretary and Member of the Board for Finance and Secretariat, and as Permanent Head of Navy Department.

The base for the Royal New Zealand Navy is at Devonport, Auckland, where H.M.N.Z. Dockyard is situated. The Dockyard undertakes the repair and maintenance of all ships of the Royal New Zealand Navy. Since 1936 the Dockyard has been considerably enlarged and modernized, and during the Second World War was able to operate as a repair base for ships of the Allied Forces in the South Pacific. The Dockyard has been organized on the same lines as Royal Navy Dockyards, with modifications to suit New Zealand conditions. In addition to its primary commitment of maintaining ships of the Royal New Zealand Navy, the Dockyard undertakes work for other Government Departments and for private firms where this involves the use of specialized equipment not available elsewhere in New Zealand.

Role of the Royal New Zealand Navy.—At present the Royal New Zealand Navy is mainly concerned with the defence of New Zealand, but, in addition, it contributes where possible to the over-all defence of the Commonwealth. In time of war this includes the defence of trade routes to the United Kingdom, Australia, and North America, and the defence of certain Pacific island groups which are under the jurisdiction of the United Kingdom and New Zealand. Peacetime activities of the Royal New Zealand Navy include tours of the island territories for the purposes of "showing the flag," assisting the local administrators, rendering medical assistance, transporting stores and mails, and helping to improve navigational facilities by the blasting of coral reefs and the recording of soundings.

Nearer home the Royal New Zealand Navy carries out fishery protection patrols and assists in servicing lighthouses and meteorological stations. One New Zealand frigate is permanently engaged on survey duties.

Exercises are carried out regularly in home waters, and with units of the Royal Australian Navy and Royal Navy elsewhere in the world. Since 1950 the Royal New Zealand Navy has continuously maintained two frigates in Korean waters as a contribution to the United Nations Naval Forces.

State of the Navy.—Her Majesty's New Zealand ships are at present:

Cruisers	<i>Bellona</i>	
	<i>Black Prince</i>	
Frigates	<i>Rotahi</i>	
	<i>Taupo</i>	
	<i>Hawera</i>	Two being maintained with the United Nations Forces in Korea; the others in reserve.
	<i>Kamere</i>	
	<i>Tutira</i>	
	<i>Pukaki</i>	

	<i>Lachlan</i>	Survey ship.
Ocean minesweepers	<i>Kiama</i>	
	<i>Stowell</i>	In reserve.
	<i>Inverell</i>	
	<i>Echuca</i>	
Anti-submarine mine-sweeping vessels	<i>Kiwi</i>	Training ships.
	<i>Tui</i>	
	<i>Inchkeith</i>	
	<i>Killegravy</i>	In reserve.
	<i>Sunda</i>	
	<i>Scarba</i>	
Motor launches	Twelve	Fishery protection. Training. Harbour duties. Survey work. R.N.Z.N.V.R. Divisions.

Shore Establishments.—The New Zealand Naval Board is the controlling authority of the Royal New Zealand Navy, and is situated in Navy Office, Wellington, together with Naval Staff Officers and administrative departments of the Navy.

The Naval Base, situated at Devonport, includes the Dockyard, the Naval Barracks (H.M.N.Z.S. *Philomet*), and the Royal New Zealand Naval Hospital. The Naval Officer in Charge, Auckland (a Captain R.N.), is responsible for general organization and administration. The Dockyard, which is administered by a Captain Superintendent, includes the Naval Store Depot and the Naval Armament Depot, and provides facilities for repair of all ships up to a light cruiser standard.

H.M.N.Z.S. *Tamaki* is situated at Motuibe Island, Auckland, and is the Navy's Basic Training Establishment.

H.M.N.Z.S. *Irirangi*, situated at Waiouru, in the centre of the North Island, is the Royal New Zealand Naval Wireless Telegraphy Station.

Personnel.—Entry into the Royal New Zealand Navy is open to young New Zealanders through the following channels:

Boys	Ages 15 years 3 months to 16 years 7 months.
Artificer apprentices	Ages 15 years to 17 years.
Youths	Ages 16 years 7 months to 17 years 6 months.
Adult entries	Ages 17 years 6 months to 25 years (28 years for tradesmen).

With the exception of the artificer apprentices who carry out their initial training in *Philomet* before proceeding to the United Kingdom for trade training, all new entries receive their basic training in *Tamaki*. Technical and specialist training is, as far as possible, carried out in New Zealand, but where no facilities exist, ratings attend courses in naval establishments in Australia and the United Kingdom.

Suitable ratings who qualify educationally and professionally are eligible for promotion to commissioned rank or branch rank, dependent on age and experience.

There are also two schemes for direct entry as officer cadets. Candidates between the ages of 15 years and 16 years 3 months are eligible for selection as Cadet Midshipmen, and these cadets carry out two years' training in the Royal Australian Naval College, Flinders, Victoria, before proceeding to the Royal Navy, where the remainder of their training is carried out. Candidates between the ages of 17 years and 18 years 8 months are eligible for selection as Special Entry Cadets. These cadets proceed to the United Kingdom on entry, and serve one term in the Royal Naval College, Dartmouth, before joining the fleet for further training. All officers return to New Zealand for service in the Royal New Zealand Navy when they have completed the necessary courses for promotion to Lieutenant.

Women's Royal New Zealand Naval Service.—The Women's Royal New Zealand Naval Service was first formed in 1942 as a wartime service, being disbanded at the end of 1946 upon conclusion of hostilities. It was reinstated in April 1947 as a temporary measure to offset the manning shortage (at that time) in the Royal New Zealand Navy. In 1949 the W.R.N.Z.N.S. became a permanent part of the Royal New Zealand Navy. Employment of members of the W.R.N.Z.N.S. is varied and includes duties as cooks, stewards, writers, shorthand-typists, chart correctors, motor-transport drivers, and teleprinter operators. These duties are supplemented or amended as necessary to meet the requirements of the Navy.

Royal New Zealand Naval Volunteer Reserve.—The post-war R.N.Z.N.V.R. has been reestablished with Divisions in the four main centres, and training of officers and ratings is being carried out. The implementation of the Military Training Act 1949 affects the R.N.Z.N.V.R. to the extent of about three hundred ratings annually. Compulsory Naval Reservists undergo fourteen weeks' basic training in H.M.N.Z.S. *Tamaki*, after which they join up with their local R.N.Z.N.V.R. Division for four years' further part-time training.

Strength of the Navy.—The strength of the Navy as at 31 December 1953 is shown below.

	Officers	Ratings	Total
Regular Forces (incl. W.R.N.Z.N.S.)	311	2,563	2,874
Active reserves—			
Royal New Zealand Naval Reserve	27		27
Royal Fleet Reserve		12	12
Royal New Zealand Naval Volunteer Reserve	145	1,080	1,225
Totals	172	092	1,264
Inactive reserve—			
Royal New Zealand Naval Reserve		857	857
Royal New Zealand Naval Volunteer Supplementary Reserve	300		300
Royal New Zealand Naval Emergency Reserve		569	569
Retired officers and pensioners	133	169	302
Totals	433	1,595	2,028

These figures include 81 officers and 23 ratings on loan from the Royal Navy.

Naval Expenditure.—During the year ended 31 March 1953 the sum of £6,148,829 was expended on the Royal New Zealand Navy. Of this sum, £5,666,108 was expended from vote "Navy" and £482,721 from vote "Defence: Construction and Maintenance—Subdivision 1—Navy." The total expenditure for the previous financial year was £4,744,374.

Activities in 1953.—The Royal New Zealand Navy has continued to maintain two frigates in Korean waters.

H.M.N.Z.S. *Kanieri*, while serving in Korea, paid a ceremonial visit to Tokyo. This was the first New Zealand post war official visit to Japan.

H.M.N.Z.S. *Pukaki*, en route to Korea, represented New Zealand at the centennial celebrations at Noumea.

Following an extensive refit in H.M.N.Z. Dockyard, Devonport, H.M.N.Z.S. *Black Prince* recommissioned on 16 January 1953. She sailed on 17 March 1953 carrying the Naval contingent to the coronation of Her Majesty Queen Elizabeth II. In Australian waters she joined H.M.A.S. *Sydney*, with the New Zealand Army coronation contingent embarked, and the two ships proceeded to the United Kingdom in company, calling at Tobruk en route, where a combined commemoration service was held. While in the United Kingdom *Black Prince* represented New Zealand at the Coronation Review, and members of her ship's company, along with the special contingent, took part in the coronation procession. Before returning to New Zealand, ten weeks were spent attached to the British Mediterranean Fleet, where extensive exercises were carried out. During this period calls were paid to Greece, Turkey, and Gallipoli: wreaths were laid on behalf of the Government and people of New Zealand, and the New Zealand Returned Services' Association, on the Anzac Memorial in Athens and on the New Zealand and Turkish memorials at Gallipoli. Before leaving the Mediterranean an emergency call was made to the Ionian Islands, which had suffered a severe earthquake, and valuable assistance was given the inhabitants. On the return voyage a call was paid to Djakarta, this being the first official call paid by a New Zealand warship to the Republic of Indonesia. The latter part of the year saw *Black Prince* acting as escort to the Royal Yacht *Goslin* during the visit of Her Majesty Queen Elizabeth II to New Zealand. *Black Prince* had the distinction of being the first to welcome Her Majesty to New Zealand when she relieved H.M.S. *Sheffield* at the limits of the New Zealand Station, some 3,000 miles from Auckland.

H.M.N.Z.S. *Lachlan* continued surveying the New Zealand coast and again assisted the Government of Fiji in charting approaches to the islands. At the end of December 1953 nine charts were completed and published, with a further two charts ready for publication.

H.M.N.Z. ships *Kiwi* and *Tui* have been continuously employed training naval reservists.

THE ARMY.—The New Zealand Army is raised, maintained, and organized under the authority of the New Zealand Army Act 1950.

The Army consists of the Regular Force, the Territorial Force, the Army Reserve, the Cadet Corps, and military forces raised in time of war or other like emergency.

The Force for service in Korea in fulfillment of the obligations undertaken by New Zealand in the Charter of the United Nations was raised originally under the authority of the Emergency Act 1950, but as the power to raise and maintain such a force is now contained in the New Zealand Army Act the relevant provisions of the Emergency Force Act were repealed.

The New Zealand Army comprises the following Corps:

The Royal New Zealand Artillery.

The Royal New Zealand Armoured Corps.

The Royal New Zealand Engineers.

The Royal New Zealand Corps of Signals.

The Royal New Zealand Infantry Corps.

The Royal New Zealand Army Service Corps.

The Royal New Zealand Army Medical Corps.

The Royal New Zealand Army Ordnance Corps.

The Royal New Zealand Electrical and Mechanical Engineers.

The Royal New Zealand Dental Corps.

The Royal New Zealand Chaplains Department.

The New Zealand Army Pay Corps.

The New Zealand Army Legal Department.

The Royal New Zealand Provost Corps.

The Royal New Zealand Nursing Corps.

The New Zealand Women's Royal Army Corps.

The New Zealand Cadet Corps.

The New Zealand Army Act as far as possible places the officers and soldiers of the Regular and Territorial Forces on the same footing.

Command and Organization.—The Army Board consists of—

The Minister of Defence, as President;

The Chief of the General Staff (First Military Member);

The Adjutant-General (Second Military Member);

The Quartermaster-General (Third Military Member);

The Army Secretary; and

A Territorial Officer (Associate Member).

The Board is charged with the administration and, through the officers appointed for that purpose, the command of the Army.

The Army in peace is so organized, trained, and equipped that, in the event of war, it can undertake rapidly and efficiently the tasks which will fall to it. Based on this principle, the higher grouping within the Army is—

Army Troops, which include Army Headquarters, the Army Schools, and base units. In general, Army Troops contain the machinery for the higher command and administration of the Army.

District Troops, which include District and Area Headquarters, District Training Camps, and such other units as are placed under command. These comprise the home defence and training elements of the Army.

New Zealand Division, which is a formation for employment within or outside New Zealand as the situation may demand.

Liability for Periods and Conditions of Service.—The liability for and conditions of service are given briefly in the following paragraphs.

Regular Force.—All officers and soldiers of the Regular Force are liable at all times for service within New Zealand and, with the exception of minors, overseas.

Enlistment in the Regular Force, which is voluntary, is until retiring age for officers, with provision for special short-term engagements, and for soldiers as follows:

Men: Eight years, of which the first five years are served on the Active List and the remaining three on the Reserve. There is also provision for short-term engagements.

Women: Two years.

Territorial Force.—In time of war or other like emergency the Governor-General may, by Proclamation, transfer the Army Reserve or any specified portion thereof to the Regular Force or to the Territorial Force, and declare the Territorial Force liable for continuous service within New Zealand or overseas during the continuance of such state of war or emergency.

Territorial soldiers on completing their obligations for whole-time and part-time training under the Military Training Act 1949 are posted to the Army Reserve, which will provide the trained manpower if and when, in any future war, an Expeditionary Force is required.

The New Zealand Army Act also empowers the Governor-General to accept the offer of any officers or soldiers of the Territorial Force or the Army Reserve, or of any other persons, to render themselves liable, or to enlist in the Army, as the case may be, for service within or outside New Zealand.

Training.—Regular Force: Except in cases of special entry from the Universities, a limited number of suitable Regular other ranks, and of personnel who have had active service experience. Regular officers are commissioned, in the rank of Lieutenant, on graduation from the Royal Military College, Duntroon, Australia. They receive specialist and refresher training in New Zealand, while in certain cases their advanced training is carried out at British and Australian Army schools. Promotion to Captain and Major is gained after six and thirteen years commissioned service respectively, providing that the prescribed promotion examinations and courses are passed. Candidates for Staff College must pass the same entrance examinations as officers of the British Regular Army.

Regular other ranks are trained at the Army Schools in New Zealand. In certain cases advanced training is received in the United Kingdom and Australia. Before promotion to Corporal and Sergeant other ranks must pass the prescribed promotion examinations.

Territorial Force: The annual obligatory training prescribed for Territorial personnel consists of—

a. Annual training camp: Fourteen days.

b. Out-of-camp training: Six days, made up of whole-day or week-end parades, plus a proportion of evening parades in the form of instructional classes.

Attendance for a further twenty days' training annually, including courses at Army or District Schools, is authorized for officers and non-commissioned officers.

Before promotion officers are required to qualify at the prescribed courses and examinations for the next higher rank.

Compulsory Military Service under the Military Training Act 1949: This service is as follows: (a) a period of whole-time service of fourteen weeks in a training camp (at present the period is 10½ weeks), (b) a period of part-time service of three years during which the soldier must serve for a total of sixty days, made up of fourteen days in-camp and six days out-of-camp training each year, (c) service for six years in the Army Reserve, with no training liabilities.

Training Establishments.—*Army Schools:* Headquarters, Army Schools, commands and administers a group of Army Schools situated at the one centre, which provide courses for all ranks of the Regular Force as well as officers and specialist non-commissioned officers of the Territorial Force.

The group consists of the Tactical School, Regular Force Depot, School of Army Administration, School of Artillery, Armoured School, School of Signals, School of Infantry, Royal New Zealand Army Service Corps School, Royal New Zealand Electrical and Mechanical Engineering School, the Regular Force Cadet Unit, and the Regular Force Cadet School.

The Regular Force Depot provides basic recruit and instructor courses for all arms of the Regular Force, including Regular Force Cadets.

The Regular Force Cadet School provides academic training for cadets between the ages of sixteen and eighteen years.

Two other training establishments, the School of Military Engineering and the Medical Corps Depot, are situated apart from the central Army Schools organization but fulfil similar functions. In addition, each military district from time to time holds courses for Territorial officers and soldiers, and for personnel of the New Zealand Cadet Corps.

New Zealand Division.—On 1 May 1951 the headquarters of the New Zealand Division was established at Linton Military Camp, and as from 1 June assumed normal functions of command and administration of the formations and units of the Division. Both Regular and Territorial officers have been appointed to the headquarters staff.

Since the introduction of compulsory military training the formation of Divisional Headquarters is an important move in the furtherance of the policy of having a New Zealand Army organized and trained in peace so that it can efficiently take over its tasks and responsibilities in time of war.

New Zealand Armed Forces Serving in Korea.—As a signatory of the Charter of the United Nations New Zealand has a general obligation to co-operate with other members in the prevention of aggression and the restoration and maintenance of peace.

New Zealand is currently discharging this obligation by providing Naval and Army forces to participate under United Nations command in Korea. The New Zealand Army "Kayforce," enlisted from special volunteers and comprising a field regiment of artillery and auxiliary units, has been serving in Korea since January 1951.

Since the despatch of the original force, successive reinforcements have been trained for service in Korea. In addition, a replacement scheme has been introduced whereby personnel serve in the theatre of operations from eighteen to twenty-one months and are thereafter eligible for return to New Zealand. Provision has also been made for those who wish to serve a further term to be granted one month's leave in New Zealand.

New Zealand Cadet Corps.—One hundred and twenty-nine secondary schools have Cadet units. These units are designated by the name of the school. Service is voluntary, and annual training comprises thirty drills, each of one and one-half hours. All units are basically infantry, but provision is made in the larger units for such specialist activities as Sea Scouts, Artillery Troops, Signal Troops, and Air Training Corps Flights. All units can take part in certain Empire shooting competitions, and have had marked success in this respect. Courses for officers and noncommissioned officers are held at District Schools, and units may hold camps or barracks annually.

Activities During 1952–53.—The Territorial Force continued to grow in numbers and efficiency, while Kayforce was maintained at full strength. Assistance was continued to the Fiji Military Forces, including the regiment engaged in operations in Malaya. The Army also assisted the community during the serious floods in part of New Zealand early in 1953.

All units of the Territorial Force completed their annual obligatory training. Realistic training exercises, held during annual camps, were generally well done. Some units were set exercises by Brigade Commanders, while all Brigades held tactical exercises without troops for officers of all arms. In addition a three day Divisional tactical exercise without troops was held during the year.

Rifle Clubs and Associations.—All rifle clubs and associations (including the parent body, the National Rifle Association of New Zealand) must be formally recognized by the Army Board. There are 157 rifle clubs and 13 rifle associations in New Zealand.

The planning, construction, and maintenance of rifle, ranges, and safety precautions to be observed in conducting rifle practices and competitions, are governed by orders issued by the Army Board.

Army Expenditure.—The following table shows Army expenditure for the financial years 1951–52 and 1952–53.

Year Ended 31 March		£
1952	Consolidated Fund—Vote "Army"	8,660,445
1953	Consolidated Fund—Vote "Army"	11,005,104

Strength of the Army.—The strength of the Army as at 31 August 1953 was as follows.

	Officers	Other Ranks	Total
Regular Force (incl. seconded from British Army)	529	3,581	4,110*
Territorial Force (Active)	1,233	29,031	30,264
Reserve of Officers (Regimental List)	491		491
Class C Reserve		5,387	5,387
Cadet Corps	630	31,281	31,911
Kayforce	99	2,684	2,783 [†]
* Includes 338 women.			
[†] Excluding 24 regular officers and 97 Regular other ranks included under Regular Force.			

THE ROYAL NEW ZEALAND AIR FORCE.—The Royal New Zealand Air Force is raised, maintained, and organized under the authority of the Royal New Zealand Air Force Act 1950 (replacing the earlier New Zealand legislation—namely, the Air Force Act 1937 and its later amendments), and provides for the following:

- The Regular Air Force.
- The Territorial Air Force.
- The Air Force Reserve.
- The Air Training Corps.
- The Women's Auxiliary Air Force.

Command and Administration.—The R.N.Z.A.F. is administered by the Air Board, which consists of—

- The Minister of Defence, as President.
- The Chief of the Air Staff.
- The Air Member for Personnel.
- The Air Member for Supply.
- The Air Secretary.

The Regular Air Force.—This force provides commanders and staffs at Headquarters, liaison offices overseas, an operational fighter squadron in the Middle East, stations in New Zealand and Fiji, and instructional staffs for all elements of the R.N.Z.A.F.

Service in the Regular Air Force and normal entry to the ranks for males is through an initial engagement of eight years (for skilled and semi-skilled trades) or five years (for unskilled trades), plus a reserve liability of four years in each case. Opportunities exist for re-engagement to qualify for pension; normally total service for pension is twenty-four years, but may be reduced to twenty years in certain cases, or extended to permit service until fifty-five years of age. For females the initial term of service is normally for two years, with no Reserve obligation; opportunities exist for re-engagement and females may qualify for pension. Recruitment for the Regular Air Force is effected through three Area Recruiting and Reserve Centres in New Zealand, and through R.N.Z.A.F. Headquarters in London for those ex-servicemen and ex-servicewomen in the Unit d Kingdom who are to be enlisted and embarked for service with the R.N.Z.A.F.

Candidates for commissions, in branches other than General Duties, are drawn largely from the ranks, and some with higher educational and specialist qualifications are commissioned on joining the service. Commissions are either permanent or short-service, the latter of from two to eight years' duration and carrying an obligation for service with the Air Force Reserve. Candidates for commissions in the General Duties Branch, however, are drawn mainly from civil life and appointed to short-service commissions of six or eight years.

Retiring ages for officers holding permanent commissions in the General Duties Branch are: Squadron Leader and below, forty-five years; Wing Commander, forty-eight years; Group Captain and above, fifty-three years, while those for other branches are forty-nine, fifty-one, and fifty-three years respectively.

R.N.Z.A.F. Non-Regular Air Force.—During 1948 the non-Regular Forces of the R.N.Z.A.F. were combined for administrative and directive purposes. The non-Regular Air Force consists, in the main, of airmen enlisted under the provisions of the Military Training Act, supplemented by volunteer officers and airmen with wartime service in the R.N.Z.A.F. and by personnel who have completed short-service commissions or engagements in the Regular Air Force.

The Territorial Air Force, Active Reserve, General Reserve, and Air Training Corps are coordinated by the Deputy Director of Training (Reserves) at Air Force Headquarters. The detailed administration of all non-Regular activities in their areas is the responsibility of Area Recruiting and Reserve Centres which have been established at Auckland, Wellington, and Christchurch.

The Territorial Air Force consists of four fighter squadrons, which form part of the Fighter Ground Attack Wing of the R.N.Z.A.F., and a Maritime Squadron established at R.N.Z.A.F. Station, Hobsonville. In addition, ancillary units of the Task Force are manned largely by airmen of the Territorial Air Force Supplement.

The following non-regular units, formed to support the R.N.Z.A.F. Task Force, are established on various stations in the North Island.

- M.T. Light Repair Unit.
- Repair and Salvage Unit.
- Aviation Fuel and Ammunition Park.

Air Stores Park.

Casualty Air Evacuation Section.

Mobile Field Hospital.

Light Anti-Aircraft Squadrons.

Under the Compulsory Military Training Scheme young men are selected for training as pilots and ground staff to meet the requirements of the Territorial Air Force and Reserve. Pilots trained under this scheme are given further flying at aero clubs during a period of three years. Facilities and training are also made available to University students to qualify for their "wings," and for others to qualify as Technical and Administrative Officers, in the Territorial Air Force, by doing further training in the Regular Air Force during University long vacations.

The Air Force Reserve is divided into two components—the General Reserve, which is a non-training list of officers and airmen, and the Active Reserve. Officers and airmen of the latter undertake annual training at R.N.Z.A.F. stations and fill most of the key posts in the Task Force Units. Pilots enrolled in this Reserve and in the T.A.F. Supplement are given refresher flying training at Aero Clubs.

The Air Training Corps continues to provide a valuable source of recruits for the Regular Air Force, and the training provided is a sound basis for further training under the Military Training Act. An annual scholarship system provides flying training at Aero Clubs for selected cadets.

Training Establishments.—Regular Air Force flying training activities are centred at Wigram in the following units.

- No. 1 Flying Training School (for the training of pilots to "wings" standard).
- Air Navigation School (for the training of navigators).
- Central Flying School (for the training of flying instructors). This school also provides refresher flying courses, instrument/weather courses, and, at present, multi-engine conversion courses.

At Taieri the Initial Training School is responsible for the initial training of all aircrew, both Regular and non-Regular, as well as the compulsory military training of aircrew trainees. At this school all pilots are flight graded for further training at F.T.S. if they are Regulars or Territorial pilots, and at aero clubs if they are non-Regular trainees.

Recruit and general service training is also centred at Wigram in the Aircraftmen and Aircraftwomen Recruit Training School and the N.C.O.s' School of Instruction. Boy entrants receive their early training at the Boy Entrants' School at Woodbourne.

Officer training is done at the Officers' School at Whenuapai, and training in the administrative trades is also given at Whenuapai in the School of Administration.

Technical Training is carried out No. 1 T.T.S. Hobsonville, No. 2 T.T.S. Wigram, No. 3 T.T.S. Whenuapai, No. 4 T.T.S. Woodbourne, No. 5 T.T.S. Taieri, and No. 6 T.T.S. Ohakea, according to grade.

Initial trade training courses provide for the training of both Regular Air Force recruits and trainees under the Compulsory Military Training Scheme.

Strength of the Air Force.—The strength of the R.N.Z.A.F. as at 31 March 1953 was—

Regular Air Force	4,133
Women's Auxiliary Air Force	491
Territorial Air Force (Squadrons)	392
Territorial Air Force (Supplement)	2,479
Active Reserve	589
General Reserve	3,020
Air Training Corps	5,308

Air Force Activities During the Year Ended 31 March 1953.—During the past year liaison has been maintained with the Royal Air Force and the Royal Australian Air Force by the exchange of officers, and by the posting of R.N.Z.A.F. officers to various staff college and specialist courses. A number of visits have been made also by aircraft and crews from R.A.F. and R.A.A.F. operational schools.

During the year progress has been particularly directed to the implementation of the re-equipment programme and to the building-up of the non-Regular Air Force. Emphasis has been placed on the development of the units formed to support operational squadrons, and these units absorb a considerable number of trainees obtained under the Military Training Act 1949.

The Task Force Administrative Headquarters established in the Auckland area administers the ancillary units' and the regular squadron at present stationed overseas.

Operational Units.—All operational squadrons have been engaged in training appropriate to their respective roles.

No. 41 (Transport) Squadron consists of two flights, one long range and one medium range, equipped with aircraft appropriate to these roles.

No. 14 (Fighter Ground/Attack Squadron) is employed on garrison duties in the Middle East.

No. 75 (Fighter Ground/Attack) Squadron is under training at Ohakea.

A Fighter Wing Headquarters controls the training of No. 75 Squadron and Nos. 1, 2, 3, and 4 Territorial Fighter Squadrons. These latter are based at the four main centres.

No. 5 (Maritime Squadron) is based in Fiji, and No. 6 (Territorial Maritime) Squadron is based at Auckland.

Air Force Expenditure.—The total expenditure of the Air Force for the year ended 31 March 1953 was £8,386,103. The comparable figure for 1951–52 was £10,103,656.

POST-WAR ARMED FORCES EMPLOYED OVERSEAS.—A brief summary of forces raised after the termination of hostilities in the Second World War and employed overseas is now given.

New Zealand Contingent of the British Commonwealth Occupation Force in Japan.—After the capitulation of Japan in August 1945 New Zealand agreed to join with the United Kingdom, India, and Australia in the despatch of a British Commonwealth Force to take part in the occupation of Japan. The objects of the British Commonwealth Occupation Force (B.C.O.F.) were to represent worthily the British Commonwealth in the occupation of Japan; to maintain and enhance British Commonwealth prestige and influence in the eyes of the Japanese; and to illustrate to, and impress on, the Japanese people, as far as was possible, the democratic way and purpose of life. The military role of B.C.O.F. under the direction of the Supreme Commander for the Allied Powers and within its allotted area, was: the safeguarding of all Allied installations, and of all Japanese installations awaiting demilitarization; the demilitarization and disposal of Japanese installations and armaments; and military control (which did not include military government).

The Army Component of the New Zealand Contingent was constituted as the Japan Section of the Second New Zealand Expeditionary Force. It was formed in Italy late in 1945 from the 9th Infantry Brigade and other units of the Second New Zealand Division, some 4,239 personnel being found from the single members of the 13th, 14th, and 15th Reinforcements, which were already in the Mediterranean theatre. The New Zealand Force sailed from Naples in February and arrived in Kure, Japan on 19 March 1946. Its allotted area of occupation included the Hiroshima Prefecture.

The original members of the Force were repatriated to New Zealand in July 1946, their places being taken by volunteers from New Zealand who had enlisted for twelve months' service in Japan. In 1947 a further relief of personnel took place, enlistments again being on a voluntary basis, and for reasons which included the diminishing nature of the military tasks connected with the occupation, the strength of the Force was reduced to 2,400.

Early in 1948, by agreement with the other Commonwealth Governments concerned and with the concurrence of the Government of the United States of America, the New Zealand Government decided to withdraw the Force, without relief, between July and October of that year.

The Air Component of the New Zealand Contingent comprised No. 14 (Fighter) Squadron, R.N.Z.A.F. This Squadron, which initially comprised 33 officers and 239 other ranks, was formed on 1 December 1945, and together with its Corsair aircraft was transported to Japan in March 1946. In Japan it formed part of the British Commonwealth Air Group (B.C. AIR) and was stationed initially at Iwakuni and later at Bofu. Operational flying began early in May 1946 and included surveillance patrols over the B.C.O.F. occupation area, searches for shipping bringing Koreans illicitly to Japan, and on occasion operational exercises with other units of B.C. AIR. The tour of duty for personnel was planned to be not more than one year, and reliefs were carried out progressively.

Air Courier Service: In addition to the provision of the Army and Air components of the New Zealand Contingent of B.C.O.F., an air courier service was maintained between New Zealand and Japan from March 1946 to June 1948. This service was undertaken by No. 41 Squadron, R.N.Z.A.F., and carried mail for the New Zealand Contingent together with freight and personnel for the relief of No. 14 Squadron. A number of Army personnel were also carried.

New Zealand Armed Forces for Service in Korea.—As a result of an appeal from the Secretary-General, United Nations, for assistance in the operations in Korea, the Prime Minister announced on 29 June 1950 that units of the Royal New Zealand Navy would be made available for service in that area. Two frigates, the H.M.N.Z.S. *Tutira* and H.M.N.Z.S. *Pakaki*, accordingly left New Zealand waters on 3 July 1950.

As a result of a further appeal from the United Nations for each member county to examine its capacity to provide more fighting forces, particularly ground troops, the Prime Minister announced on 26 July 1950 that New Zealand was offering to the United Nations a special volunteer combat force for service with other ground forces in Korea, the first force, comprising a regiment of artillery and ancillary units, leaving New Zealand in November-December 1950. Up to June 1953 more than 3,000 New Zealand soldiers had served in Korea.

The history of the raising of the Force is summarized in earlier issues of the Year-Book.

Originally men were enlisted in Kayforce for the period of the emergency and six months thereafter. In the latter half of 1951, however, the Government decided to proceed with a scheme to replace personnel of the Force after they had served from eighteen to twenty-one months in the Korean theatre of operations. Those who complete their original term of service may re-engage for a further term of twelve months, in which case they are granted twenty-eight days furlough in New Zealand with free travel privileges on the New Zealand Railways. Recruiting of volunteers for the Force is now continuous, and about one hundred and fifty men are called up at six-weekly intervals to undergo three months' training before proceeding overseas. Drafts leave for Korea by air at approximately fortnightly intervals.

Since the cease fire in Korea, Kayforce personnel have been engaged in the construction of defensive positions on the Armistice Line and on the erection of new winter quarters. Their future employment has not yet been decided.

New Zealand Frigates in Korea.—New Zealand's first contribution to the United Nations Naval Forces in the Korean area, the frigates H.M.N.Z.S. *Taitira* and *Phakisi*, sailed from Auckland on 3 July 1950, almost immediately after the outbreak of hostilities. Since then two New Zealand frigates have been maintained on active service, each ship serving approximately twice months in the area before returning to New Zealand. Their duties at first consisted of patrolling and escorting troops and supplies from Japan to Pusan. The New Zealand frigates also acted as escorts for the Inchon landing. Subsequently the duties of the Naval Forces were extended. A steady blockade patrol was kept up on the west coast of Korea and junk traffic was controlled, such vessels often being stopped and searched for enemy troops or supplies. New Zealand frigates controlled Republic of Korea minesweepers, and assisted in their activities.

After June 1951 the monotony of routine blockade patrols was varied by bombardments of enemy gun positions, supply columns, troop concentrations, and lines of communications. The frigates also provided gun-fire support for raids against the mainland or enemy-held islands by friendly forces. The navigational tugs Hain River was negotiated to enable the enemy well inland to be harassed. H.M.N.Z.S. *Rotorui* personnel took part in three commando landings when they destroyed enemy positions and took prisoners. H.M.N.Z.S. *Tiapo* played an important part in repelling a landing on a friendly-held island off the east coast of Korea and sank the majority of the junks carrying enemy troops.

On the average three-quarters of the New Zealand frigates' time was spent at sea, often for three or four weeks, and occasionally longer, without a respite. A brief visit to a Japanese port for fuel and stores was then made before taking up patrol duties again.

From 3 July 1950 until the cease fire on 28 July 1953 New Zealand frigates steamed 339 584 miles and expended 71,625 rounds of ammunition. There were eight tours of duty involving all six of the Royal New Zealand Navy's frigates, and more than half the Navy's strength (over 1,200 naval personnel) during this period saw Korean War Service. Three casualties were suffered due to operations in Korea.

Since the cease fire two frigates have continued to operate with the United Nations Forces in Korea.

STRENGTHS OF THE ARMED SERVICES, 1939–83.—Approximately 60,000 men volunteered for service in the New Zealand Force before conscription was introduced in July 1940.

The net intake of men to the Armed Forces—i.e., exclusive of transfers between the Services and of re-entries—was 194,000, equivalent to 67 per cent of the male population between the ages of eighteen and forty-five years. In addition, approximately 10,000 women served in the Forces.

The following table shows the approximate strength of each of the Services from the outbreak of war in September 1939 at yearly intervals until March 1953 and also in August 1945, when hostilities ceased. The figures at July 1942 are also shown, as that month marked the peak for mobilization, there being 151,073 men in the Armed Forces at that time, representing approximately 43 per cent of the male population of military age.

As at 31 March	Navy	Army	Air Force	All Services		Total	Female Personnel (Included in Previous Columns)
				In New Zealand	Overseas		
1939 (September)	1,320	18,000	1,486	20,392	414	20,806	
1940	1,791	29,300	3,808	27,628	7,271	34,899	18
1941	3,579	75,148	10,213	54,997	33,943	88,940	202
1942	5,605	109,389	18,228	82,201	51,021	133,222	2,356
1942 (July)	6,110	124,773	23,666	104,490	50,959	155,449	3,476
1943	7,657	104,087	33,777	82,740	62,781	145,521	7,302
1944	10,018	72,662	41,595	55,039	69,236	124,275	7,942
1945	10,412	46,698	35,004	42,731	49,383	92,114	5,669
1945 (August)	10,466	40,942	31,578	36,962	46,024	82,986	4,632
1946	4,528	14,129	6,918	19,214	6,361	25,575	1,838
1947	1,632	7,164	3,657	7,410	5,043	12,453	577
1948*	1,657	4,746	2,896	6,465	2,834	9,299	435
1949†	2,267	2,568	3,049	†	†	7,884	498
1950*	2,511	3,096	3,495	†	†	9,102	684
1951†	2,669	4,402	3,500	†	†	10,571	645
1952*	2,525	5,995	3,985	†	†	12,505	846
1953*	2,823	6,558	4,624	†	†	14,005	957

* **Exclusive of Territorial Force (or service equivalent) and Reserves.**

† **Not available.**

The establishment of the Emergency Reserve Corps in August 1940, consisting of (1) the Home Guard, (2) the Emergency Precautions Services, and (3) the Women's War Service Auxiliary, provided for the effective utilization of civilian personnel in the case of emergency. The Home Guard, which was constituted a part of the Defence Forces on 30 July 1941, reached its peak in April 1943 with a total strength of 124,194 men, while the total numbers involved in the Emergency Precautions Services at one stage reached 150,000. The New Zealand Naval Auxiliary Patrol Service commenced operations in December 1941, and attained its maximum strength of 463 ratings in August 1942. None of these figures is included in the table given.

CASUALTIES ON ACTIVE SERVICE.—The following table gives particulars of casualties suffered on active service by members of the New Zealand Armed Forces and Mercantile Marine from the outbreak of the Second World War in September 1939 up to 31 December 1946. The figures shown for the Navy and Air Force include New Zealand personnel serving with the Royal Navy and Royal Air Force respectively. Deaths and injuries due to accidental causes while on active service are included in the figures of deaths and wounded respectively. The number shown as "missing" refers to the number classified as at 31 December 1946.

—	Deaths (Including Died as Prisoner of War)	Wounded and Injured	Prisoners of War	Wounded and Taken Prisoner of War	Interned	Missing	Totals
Navy		573	170	54		3	800
Army		6,793	15,324	6,644		46	30,026
Air Force		4,149	255	520	32	23	4,979
Mercantile Marine		110				123	233
Totals		11,625	15,749	7,218	1,251	149	46,363

In addition to the above figures there were 11 deaths reported in the 2nd N.Z.E.F. (Japan) up to 31 December 1948.

New Zealand casualties recorded as a result of service with the United Nations Forces in Korea from the commencement of service up to 31 December 1953 are as follows.

Class of Casualty	Casualties in Korean Theatre to 31 December 1953		
	Royal New Zealand Navy	Army	Total
Killed in action	1	14	15
Died of wounds			6
Drowned	1	1	2
Died of sickness			7
Died on active service			5
Total deaths	2	33	35
Wounded	1	78	79
Prisoner of war (now released)			1
Total casualties	3	112	115

HONOURS AND AWARDS.—A number of honours, decorations, etc., have been made to personnel for service in Korea or Korean waters, and the following list shows the number of each class awarded up to 31 December 1953.

Navy	
Distinguished Service Cross	7
Member of the Most Excellent Order of the British Empire	1
Distinguished Service Medal	2
Mentioned in Despatches	16
Posthumously Mentioned in Despatches	1
Army	

Companion of the Bath	1
Distinguished Service Order	3
Member of the Most Excellent Order of the British Empire	10
Military Cross	10
Distinguished Conduct Medal	1
Military Medal	7
British Empire Medal	4
Mentioned in Despatches	45

SUMMARY OF WARTIME ACTIVITIES OF ARMED FORCES.—In the following pages a condensed account of the wartime activities of the three armed services is given. A more detailed account is given on pages 203–206 of the 1950 issue of the Year-Book. Post-war armed forces raised for duties overseas are given earlier in this section.

Army Expeditionary Forces.—*South African War:* New Zealand supplied ten contingents for service during the South African War, comprising a total of 6,500 officers and men.

First World War 1914–18: Immediately the First World War of 1914–18 broke out an Expeditionary Force was despatched to Western Samoa and occupied those islands, while a larger force in the form of a mixed brigade was despatched to Europe. The latter force was, however, landed in Egypt, and took part in the defence of the Suez Canal. It gave a good account of itself in the desperate campaign on Gallipoli, and after being withdrawn to Egypt was expanded into a Division and a Mounted Brigade. The Division then went to the Western Front, while the Mounted Brigade continued to operate in Palestine. Both forces became famous for their military qualities, and took part in practically all the great actions of their respective theatres up to the Armistice.

A total of 98,950 troops left New Zealand for service with the New Zealand Expeditionary Forces, and, of these, 16,697 lost their lives on active service. In addition to the 98,950 of all ranks of the New Zealand Expeditionary Forces, 944 British Army Reservists, British Naval Reservists, and others left New Zealand to join their units in the United Kingdom or in a theatre of war. It is also known that 3,370 (not included above) left New Zealand during the period of the war and joined units of the British Forces or the Expeditionary Forces of other Commonwealth Countries.

On the Armistice being declared in November 1918 New Zealand had 52,000 troops in the field, while 10,000 more were ready to embark or were under training.

The tremendous amount of transport work involved in the conveyance of these forces to Egypt, France, Britain, Gallipoli, and Samoa was carried out with extraordinary success, not one New Zealand transport having been lost while conveying troops.

The troops provided for foreign service represented nearly 10 per cent of the total population of New Zealand in 1914, and over 40 per cent of the male population between the ages of twenty and forty-five years. These percentages do not take into account New Zealanders who served in the British or Australian Naval or Military Forces.

Second World War 1939–45—Middle East Theatre: Shortly after the outbreak of war with Germany on 3 September 1939 the 2nd New Zealand Expeditionary Force, consisting of an Infantry Division with numerous auxiliary units and its own base and hospital services, was formed.

This Force, which was commanded by Major-General B. C. Freyberg, V.C., left New Zealand in three Echelons, the First Echelon sailing on 5 January 1940 and proceeding to Egypt. The Second Echelon was diverted to England in May, and the 2nd Division was first concentrated in Greece in March 1941, a few days before the German invasion. In the Greece Campaign the Division fought severe rearguard actions at the Servia Pass, Katerini Pass, Platamon, and Penisio Gorge. The 6th Brigade was evacuated to Egypt, 4th and 5th Brigades to Crete. General Freyberg took command of all the forces in Crete, which included 7,350 New Zealanders when the German airborne invasion began on 20 May. After a week of hard fighting, especially at Malene and Galatos, the ill-equipped troops were forced to retreat across the mountains to Sphakia, where most were evacuated.

After reorganization and a period of training the Division took part in the campaign in Cyrenaica and the relief of Tobruk, in which it played a prominent part. Severe actions were fought at Sidi Rezegh, Belhamed, Capuzzo, and Gazala. Early in 1942 the Division moved to Syria. It returned to Egypt by a notable move of 900 miles in the height of summer to meet the German invasion of Egypt after the fall of Tobruk. During the summer of 1942 it fought costly actions at Minqar Qaim, Rawweisat, El Meir, and Alan Hamfa, and made an important contribution to the defence of Egypt.

On 23 October it was one of the assaulting Divisions in the decisive battle of Alamain. It then took part in the pursuit to Tripoli, fighting several actions *en route*, in the defensive battle of Medenine, and in the subsequent advance to Tunis, fighting severe actions at Tebaga Gap and Takrouna-Endfawide. The campaign in Africa ended on 13 May 1943, with the surrender of all the Axis forces, and the Division returned to Egypt.

In September 1943 the Division moved to Italy and was constantly and heavily engaged until the end of the war. The most notable battles in which it took part were: Orsogna (Nov.-Dec. 1943), Cassino (Feb.-May 1944), the advance to Florence (July-Aug. 1944), Rimini (Oct.-Nov. 1944), Fienza (Dec. 1944), and the final Battle of the Senio and pursuit to Trieste (Apr.-May 1945). The German armies in Italy surrendered on 2 May 1945.

Total casualties in the 2nd New Zealand Expeditionary Force, Middle East and Pacific, were 6,793 deaths from all causes, 16,543 wounded, 7,863 prisoners of war (including 1,219 wounded), and 46 missing: total 30,206.

Pacific Theatre: A detachment of 2 officers and 30 other ranks occupied Fanning Island, to protect the cable station there, immediately on the outbreak of war and until relieved by United States troops in May 1942.

The 8th Brigade Force was despatched to Fiji in November 1940. It was reinforced by the 14th Brigade Group in January 1942, and became the 3rd New Zealand Division, which was relieved by United States troops and returned to New Zealand in July 1942. New Zealand officers and noncommissioned officers trained, and to a large extent commanded, the three Fijian Battalions and two Commandos which had distinguished service with American troops in Bougainville and other Pacific islands.

One New Zealand battalion garrisoned Tonga and a second one Norfolk Island.

The 3rd Division, under command of Major-General H. E. Barrowclough, moved to New Caledonia in November 1942, and in August 1943 to Guadalcanal. Under United States command it carried out successful amphibious operations on Vella Lavella, the Treasury Islands, and Nissan. Owing to man-power difficulties it was withdrawn to New Zealand in 1944 and disbanded in October, the personnel returning to industry or going to the Middle East to reinforce the 2nd Division. Casualties in the Pacific operations were 111 killed in action, 213 wounded, and 26 taken prisoner.

Royal New Zealand Navy.—*Second World War 1939–45:* H.M.N.Z.S. *Achilles*, a light cruiser, took part in the Battle of the River Plate, the first occasion on which the New Zealand ensign was flown in action.

Achilles was thereafter employed in patrol and escort duties in New Zealand waters and in the Pacific under United States command. She was severely hit by a bomb off Guadalcanal on 5 January 1943, and sustained 21 casualties. She was paid off at Portsmouth on 21 September 1943, and recommissioned on 23 May 1944. In the last months of the war she served in the British Pacific Fleet and took part in several bombardments of Japanese island positions.

H.M.N.Z.S. *Leander*, a light cruiser, was employed on patrol and escort duties in New Zealand waters until May 1940, when she sailed for the Middle East for escort duty in the Red Sea. While operating later in the Indian Ocean she sank the Italian raider *Ramb* after a short action. Between June and September 1941 she took part in several actions off the Syrian coast. After Japan came into the war she was employed in the Pacific, and in the Battle of Kolombangara on 13 July 1943 was severely damaged, with 43 casualties.

H.M.N.Z.S. *Monowai*, armed merchant cruiser, was employed in patrol and escort duties in the Pacific and in New Zealand waters.

H.M.N.Z.S. *Gambia*, a light cruiser, was commissioned as a unit of the Royal New Zealand Navy by the officers and ship's company of the *Achilles* on 22 September 1943. After service in the North Atlantic she joined the British Eastern Fleet on 19 February 1944, and took part in all the major operations of that Fleet and of the British Pacific Fleet. She was present at the signing of the Japanese surrender in Tokyo Bay.

25th Minesweeping Flotilla was organized in April 1941. On 14 May 1941, while the flotilla was clearing a minefield in the Hauraki Gulf, the *Puriri* struck a mine and sank with 5 casualties. In December 1942 this flotilla came under American command. On 29–30 January 1943 the *Kiwi* and *Mou* sank a large Japanese submarine off Guadalcanal after a sharp action. The *Mou* was later sunk by air attack, with 21 casualties. In August 1943 the *Tui* took part in the sinking of another big submarine.

Forty minesweeping and anti-submarine vessels, 12 Fairmile launches, 16 harbour defence motor launches, and about 100 other motor boats served in the Royal New Zealand Navy in New Zealand waters, doing much arduous service.

New Zealanders in the Royal Navy: Approximately 7,000 New Zealanders served in the Royal Navy, the peak of 1,242 officers and 3,659 ratings being recorded in September 1944. They saw service in every type of ship from battleships and aircraft carriers to submarines and motor torpedo boats, and took part in notable actions and operations in every theatre of war. Deaths totalled 458, the heaviest casualty list being 148 New Zealand ratings and two officers lost when the cruiser *Neptune* was sunk in the Mediterranean on 18–19 December 1941.

Total casualties among New Zealand personnel (Royal Navy and Royal New Zealand Navy) were 800, including 573 deaths.

Royal New Zealand Air Force.—*Second World War 1939–45:* Until Japan came into the war the R.N.Z.A.F. was mainly concerned with escort and convoy duties in New Zealand waters and with training aircrews for service in the R.A.F.

Operational aircraft began to arrive from the United States in 1942, and eventually 26 squadrons were formed and saw service in the Pacific, under American command. They took part in offensive operations in the Solomons, on Bougainville, New Ireland, and against Rabaul, and carried out much supply dropping and convoy escort work and many anti-submarine patrols and survivor searches.

Ninety-nine enemy aircraft were shot down by R.N.Z.A.F. fighter squadrons and four by bomber squadrons. One submarine was sunk, many barges and small craft were destroyed, and 10,700 tons of bombs dropped.

Casualties in the R.N.Z.A.F. in the Pacific were 345 killed, 58 seriously injured, and 4 taken prisoner, 3 of whom died. In New Zealand 335 were killed, 100 died from natural causes, and 44 were injured.

New Zealanders in the Royal Air Force: Seven squadrons with a New Zealand identity and a majority of New Zealand personnel served with and as part of the Royal Air Force. They were 75 and 487 Bomber Squadrons, 489 Torpedo Bomber Squadron, 485, 486, and 488 Fighter Squadrons, and 490 Flying-boat Squadron.

All took part in very numerous operations and sustained and inflicted heavy losses.

The great majority of the 9,000 New Zealanders who served in the Royal Air Force were scattered in Royal Air Force squadrons, and there were some in every important operation carried out by the Royal Air Force. Their casualties were extremely heavy—3,267 killed, 128 seriously injured, and 571 taken prisoner. Of the 500 New Zealanders serving in the Royal Air Force on the outbreak of war in September 1939, 327 were killed and 8 died while prisoners of war.

New Zealand Mercantile Marine.—Five New Zealand merchant ships were lost by enemy action—the *Awatea*, 13,482 tons; *Limerick*, 8,724 tons; *Hauraki*, 7,113 tons; *Komata*, 3,900 tons; *Holmwood*, 546 tons.

110 seamen were killed and 123 interned.

9 B—REHABILITATION

LEGISLATIVE AUTHORITY AND ADMINISTRATION.—The Rehabilitation Act 1941 and its amendments made provision for the re-establishment in civil life of discharged servicemen and for the reconstitution of warime industries on a peacetime basis. The Rehabilitation Department, controlled by the Minister of Rehabilitation, was set up under the authority of the Act, which also provides for the constitution of a Rehabilitation Board and a National Rehabilitation Council. The principal function of the Council is to make recommendations to the Minister (after investigation) in relation to the re-establishment of discharged servicemen in civil life. Particular matters mentioned in the Act in this regard include the following:

1. The reinstatement of discharged servicemen in civil employment or occupation;
2. The necessary training required to qualify them for entry into civil employment and the granting of financial assistance during such training;
3. The making of special arrangements concerning the passing of examinations, the completion of apprenticeships, or the obtaining of practical experience, etc.;
4. The granting of financial assistance to discharged servicemen and to servicemen's widows to enable them to acquire homes and furniture, or to acquire land, stock, implements, tools of trade, etc., to commence any employment or occupation.

The Council consists of the Minister of Rehabilitation as Chairman, the members of the Board, and such other persons as the Governor-General may from time to time appoint. At 31 March 1953 the total number of members was twenty-one. The Board consists of the Minister as Chairman, the Director of Rehabilitation, the Secretary to the Treasury, the Managing Director of the State Advances Corporation, the Director-General of Lands, the Secretary of Maori Affairs, the Commissioner of Works, and five other persons appointed by the Governor-General. The general functions of the Board are to organize the establishment in civil life of discharged servicemen or servicemen's widows, and to co-ordinate and use the services available in Departments of State and elsewhere for the carrying-out of its functions. The Board also determines the nature and extent of the assistance that may be granted to any class or classes of servicemen, and approves the granting of such assistance.

The Board has the assistance of district Rehabilitation Committees, which keep in touch with discharged servicemen and act in an advisory capacity concerning rehabilitation matters in their respective districts. These Committees investigate and make recommendations in regard to applications for financial assistance or loans, report on the suitability of the applicant for the trade or business for which the assistance is required, and other relevant matters. The Committees also have limited powers in regard to making grants of small sums for immediate assistance. They also allocate State rental houses to discharged servicemen in those areas where Combined Housing Allocation Committees have not been established, 50 per cent of all houses becoming available under the Government's housing scheme being allotted for this purpose. The number of Committees operating at 31 March 1953 was 111.

Other legislative measures for the purpose of rehabilitating discharged servicemen are the Land Act 1948 and its amendments. The Land Amendment Act 1948 contains provisions which enable the Land Settlement Board to give preference at ballots to discharged servicemen of the Second World War, and also to sell or grant a lease or licence to such a serviceman without public notice and without competition.

The Emergency Forces Rehabilitation Act 1953, re-enacting Part III of the Emergency Forces Act 1950 in an extended form, enables regulations to be made for the rehabilitation and protection of servicemen who have served overseas in connection with any emergency, whether a United Nations one or otherwise—i.e., includes service in Malaya as well as in Korea.

The Emergency Forces Rehabilitation Regulations 1953, made under the 1953 Act, extend to the widows, widowed mothers, and children of servicemen, and also make provision for the financial assistance of servicemen while serving.

The Rehabilitation Board is to determine the nature and extent of the assistance to be granted in each case, within the limits prescribed in the regulations.

The general provisions of Part I of the Rehabilitation Act 1941 and its amendments as to the Board and its powers are to apply except so far as they are inconsistent with the regulations.

The Emergency Forces Occupational Re-establishment Regulations 1951 safeguard the rights of a worker in relation to his civil employment in the event of his serving as a member of an emergency force raised in New Zealand or elsewhere in the Commonwealth in connection with a United Nations emergency.

Future of Rehabilitation Assistance and of the Organization.—Since 1947 the Rehabilitation Board has closely watched the demand for rehabilitation assistance, and as this demand has lessened steps have been taken by the Department to reduce and adjust the organization as at present constituted. These adjustments have resulted in the closing of a number of departmental offices and practical cessation of operations at the Board's full-time training centres, with a consequent reduction of staff.

In 1953 the Government made certain decisions on the future of rehabilitation generally.

It was considered that the present minimum service requirements constituting eligibility for the various forms of rehabilitation assistance met any real need arising from service and that further lowering of these requirements would not be justified.

The provision of initial rehabilitation assistance has been substantially completed in all fields except land settlement and housing. Because of the numbers still requiring assistance in these two fields, it was considered that, at this stage, it would be both unreasonable and impracticable to set a time limit. This applies also to those who, for special reasons and in accordance with the policy of the Board, may be accepted in the future as eligible for land-settlement assistance either generally or for a specific property or class of property. Similarly, no time limit is to be fixed at this stage for applications for housing loans, or preferences for sections. These decisions are to be reviewed in July 1955.

The need for the 50 per cent preferential quota of State houses for ex-servicemen has, in some districts, diminished considerably. It was considered that no new applications be received after 31 March 1954.

The present policy for business loans provides that, in general, and having regard to the time elapsed since discharge, loan assistance for establishment in business will be confined to cases where the proposition involved has been within the contemplation of the applicant and he has demonstrated his interest by gaining suitable experience and by saving to make a reasonable contribution to his establishment in the particular business field. It has been decided that the present policy be confirmed but that no time limit be fixed at this stage. This decision, also, will be reviewed in July 1955.

The close relationship of furniture loans to housing warrants similar treatment, and it was accordingly decided that here also no time limit would be fixed for receipt of applications at this stage, but that this decision would be reviewed in July 1955.

In view of the very pronounced reduction in the demand for education and trade training, and the opportunity to apply which has been offered over a long period, it has been decided that, except in special circumstances, new applications will not be accepted after 31 March 1954.

Notwithstanding the continued lessening of the demand for rehabilitation assistance, the work of attending to post-settlement problems of some ex-servicemen will continue for a considerable time. Under the reorganization proposed the Board therefore intends to retain control of post-settlement questions. It will provide relief in those cases where, through no fault of the individual concerned, help is justified.

None of these decisions will have any force in respect of:

- a. Members or ex-members of emergency or similar forces;
- b. Children of deceased and totally incapacitated ex-servicemen;
- c. Ex-servicemen whose rehabilitation may at any time be retarded or interrupted or become necessary from war disability.

Appropriate forms of assistance for these groups will continue under such terms and conditions as may be considered appropriate by the Rehabilitation Board from time to time.

The following components of the present organization are to be retained: Portfolio of Rehabilitation, Rehabilitation Board, and the Rehabilitation Council (subject to later review). Farming Sub-committees are to be retained until 31 March 1954.

The present Rehabilitation Committee organization is to be replaced by one consisting of a limited number of district Rehabilitation Committees comprised of representatives of town or communities within the respective district.

The Rehabilitation Department is to continue as a separate organization until 31 March 1954 when, providing that circumstances in the meantime do not warrant a review, it is to take the form of a Board Secretariat with regional representation at Auckland, Napier, Wellington, Christchurch, and Dunedin. As from 1 April 1954 the Rehabilitation Department is to become a division of the Department of Internal Affairs.

TRADE TRAINING.—The "A" Class training scheme has provided in a number of the building trades full-time intensive theoretical and practical indoor classes, followed by full-time advanced practical work under the supervision of the Board's Instructors. At 31 March 1953 carpentry schools were still operating on a reduced basis at Auckland, Hamilton, Rotorua, Gisborne, Hastings, and Dunedin. At the peak of the scheme full-time training in carpentry was in operation at twenty-one centres, and at some of these also in painting, bricklaying, and plastering. As the needs of ex-servicemen were substantially met it was decided that no further applications for training in the building trades in the full-time centres operated by the Board be received after 31 January 1951 and that centres would cease to operate as the final classes of trainees undergoing training completed their courses. The scheme has tapered off to the extent that the Kaikohe, Whangarei, Thames, Napier, New Plymouth, Wangaimu, Palmerston North, Masterton, Wellington, Nelson, Westport, Christchurch, Timaru, Oamaru, and Invercargill centres have been closed.

The recession in the number of men under training can be gauged by comparing the figure of 2,998 at 31 March 1948 with 47 at 31 March 1953, these being then in the concluding stages of their training. The number of men who completed "A" Class training from the inception of the scheme to 31 March 1953 was 7,299.

During their period of advanced practical training, trainees were engaged on the construction of houses under the Government's housing scheme, and from a modest beginning in 1942 the output increased to the extent that the Rehabilitation Department became one of the biggest contractors for State houses.

In the earlier stages of the "A" Class training scheme provision was also made for the training of ex-servicemen in general engineering, welding, and the footwear-manufacturing industry.

The "B" Class scheme of training provides for contracts between employers and trainees and the Board for engagement and training over suitable periods in the employer's own workshop. The wages are subsidized by the Board at a gradually decreasing amount as the training progresses and the trainee's skill and productive value increases. With the gradual closing down of the "A" Class training centres, "B" Class facilities are available to ex-servicemen who wish to learn a skilled trade.

Certain trades such as boot repairing, watchmaking, jewellery manufacturing, etc., are particularly suited to the needs of disabled men, and, so far as is reasonably possible, training in such vocations is reserved for ex-servicemen suffering from major disabilities.

Arrangements similar to those in regard to trade training have been made for the training of ex-servicemen with suitable educational background as clerical workers, and in a number of professions such as law, accountancy, surveying, architecture, and journalism.

The following table summarizes the result of the "B" Class training scheme up to 31 March 1953.

Trade	Under Training	Completed Training	Total
Carpentry	29	248	277
Joinery	3	78	81
Plumbing	42	208	250
Bricklaying	2	31	33
Painting and paperhanging	11	182	193
Plastering	9	69	78
Other building trades	1	39	40
Clerical and professional	3	433	436
Engineering and metal trades	5	571	576
Electrical trades	18	243	261
Foodstuffs	3	111	114
Footwear and leather trades	3	173	176
Furniture trades	6	372	378
Motor trades	12	439	451
Other mechanical trades	6	48	51
Printing	2	97	99
Retail trades	4	366	370
Roof-tiling	2	6	6
Textile and clothing trades	2	174	176
Miscellaneous trades	10	157	167
Totals	171	4,042	4,213

The "C" Class training scheme caters for the resumption of apprenticeships interrupted by war service. The Suspension of Apprenticeship Emergency Regulations 1944 and the Emergency Forces Occupational Re-establishment Regulations 1951 provided that an apprentice on reviving his contract should receive at least the apprenticeship rate of wages that he would then be receiving had his employment been continuous. If the expiry date of the contract (calculated on the basis of an apprenticeship of not more than five years) has passed, the employer is called upon to pay to the apprentice the final contract rate, and similar payment must be made if the apprentice has reached the age of twenty-one years and had at least twelve months' home service or has rendered military service overseas. Where a contract is revived after the original expiry date (five-year basis) has passed, or where the contract expires after revival, the wage is appreciably less than the journeyman's rate which would have been payable had the full contract term been served. As this is an obvious financial hardship arising directly from military service, the Board makes available a subsidy over and above the amount which the regulations require the employer to pay in order to bring the apprentice's wage up to the journeyman's rate. Generally, in the case of twenty-one-year-old apprentices the expiry date of whose contract has not been reached, the Rehabilitation Board makes available a limited subsidy, provided they have had any overseas service. This limited subsidy will normally continue until the apprentice becomes eligible for the full subsidy at the expiry date of the contract. Although the Suspension of Apprenticeship Emergency Regulations were revoked, the rights and privileges of apprentices who had revived their apprenticeships under those regulations were preserved by the Military Training Act 1949. At 31 March 1953, 3 ex-servicemen were undergoing training under this scheme, 3,398 had completed their training, and 371 had discontinued for various reasons.

DISABLED SERVICEMEN.—Apart from the Board's general forms of assistance which are available to these men, special training assistance continues to be provided on behalf of the Board by the Disabled Servicemen's Re-establishment League and the Blindled Servicemen's Trust Board.

The League provides training in trades particularly suited to seriously disabled men, and the Rehabilitation Board is prepared to subsidize wages of any such disabled men whose disabilities make institutional treatment necessary or preferable to training within industry. This assistance is valuable for the ex-serviceman whose disability prevents him from following his normal occupation.

The League also provides employment under sheltered conditions for ex-servicemen whose disabilities make them unemployable in the ordinary industrial life of the community. Here again the Rehabilitation Board is prepared to assist by subsidizing wages.

Since the League undertook this work on behalf of the Rehabilitation Board 570 men had completed their training by 31 March 1953. Fifty-six men were receiving training at that date.

The Blindled Servicemen's Trust Board was constituted in 1945 to provide training facilities for the wholly or partially blindled ex-servicemen and to promote their welfare. One man commenced regular training during the year ended 31 March 1953, but many men have attended the training centre, "St. Dunstan's," for instruction in additional techniques and new methods. The bulk of training has now been accomplished, and the Trust Board's activity is mainly concentrated on after-care of over 50 men located throughout New Zealand, and the co-ordination of assistance available through State and private channels.

FARM TRAINING AND SETTLEMENT.—In its approach to the task of settling the servicemen on the land the Rehabilitation Board had the benefit of the experience gained from the operations of the Discharged Soldiers' Settlement Act 1915, and in framing its policy it has endeavoured, as far as possible, to avoid the pitfalls of the past.

The Board decided that the following basic principles should be applied in its land-settlement scheme for ex-servicemen from the Second World War:

1. To make settlement facilities available only to fully experienced applicants.
2. To give adequate training to those eligible applicants who were not fully experienced
3. To settle ex-servicemen on farms which should, under reasonable conditions, be capable

of producing sufficient to maintain the property, provide a reasonable standard of living, and pay all other outgoings, including mortgage charges.

The Grading System.—The Board, in consequence of the above, decided that the qualifications of every farming applicant should be subjected to the closest scrutiny and that eligible applicants should be classified according to their ability.

Grade "A": Experienced men qualified for immediate settlement on farms of their own.

Grade "B": Partly experienced men in need of further training to fit them to take up and manage farms of their own.

Grade "C": Inexperienced men considered suitable for training with the intention that they should ultimately be established on farms of their own.

Grade "D": Not suitable for farm training or settlement.

The grading of applicants is the responsibility of Farming Sub-committees, twenty-seven of which are now operating throughout New Zealand, each comprising experienced private farmers as Chairman and Deputy Chairman, and representatives of the Lands and Survey Department and the State Advances Corporation. By virtue of the Land Amendment Act 1953 it is intended to transfer to Land Settlement Committees the functions previously exercised by the Farming Sub-committees under the Rehabilitation Act 1941. Provision is made for discharged servicemen from the Emergency Forces who were engaged continuously in farm employment prior to service, but otherwise only in special circumstances have new applications for farm gradings been accepted since 31 March 1951.

The Training Scheme.—For those eligible applicants who did not measure up to "A" Grade standard every facility and encouragement was given to them to obtain the experience necessary to enable them to operate farms on their own account successfully. The Rehabilitation Board made provision for subsidizing the wages of trainees in special circumstances.

Full-time tuition has been provided for student-trainees placed at Canterbury and Massey Agricultural Colleges. The majority of the men selected for these courses have had a background of practical experience, and short courses at the colleges have served a very useful purpose in giving the men an insight into the most up-to-date farming methods.

Full-time training on a special farm was provided for physically disabled ex-servicemen who have a rural background and in respect of whom there are prospects of ultimate successful settlement as farmers, although possibly in a different class of farming from that previously followed. The administration of the farm was in the hands of the Disabled Servicemen's Re-establishment League, while the wages paid to the trainees were subsidized by the Board. The farm ceased operations on 28 February 1953.

The following table shows the number of ex-servicemen settled and the number of ex-servicemen graded "A" awaiting settlement as at 31 March 1953.

Class of Settlement	Number
Settled on single units by Rehabilitation Loans Committee	7,453
Settled on land settlement blocks by Rehabilitation Loans Committee	1,996
Settled on land settlement blocks, financial adjustments yet to be made	554

Class of Settlement	Number
Employed by Lands and Survey Department with promise of titles	77
Settled on single units and blocks through Maori Rehabilitation Finance Committee	102
Employed by Department of Maori Affairs on single units and blocks with promise of title	16
Settled without rehabilitation assistance on freehold, Crown, and private leasehold properties	1,031
Maori ex-servicemen assisted by Department of Maori Affairs under Maori Land Amendment Act 1936	89
Total settled	11,318
Number of "A" Grade ex-servicemen awaiting settlement	1,705

The area of land acquired for the settlement of ex-servicemen up to 31 March 1953 was 1 577,729 acres. This area does not include particulars relating to those who have purchased established farms on their own account with rehabilitation assistance. Further particulars are contained in Section 18a. Particulars of financial assistance will be found under a later heading.

EDUCATION.—Educational facilities are provided by the Rehabilitation Board for ex-servicemen in the way of bursaries, payment of fees, book allowance, etc.

Full-time bursaries for study at New Zealand University Colleges and some private institutions and colleges include all tuition and examination fees, together with a book allowance limited to £5 per annum. Subsistence allowances for the academic period are also granted at the rate of £7 per week for married men and £4 0s. 6d. per week for single bursars. For some courses at the agricultural colleges students are required to live at the colleges. In such cases their board and lodgings are paid, and in addition allowances of £4 17s. 6d. and £2 per week are paid to married and single men respectively.

Assistance for part-time study at University Colleges, State institutions, and private institutions is also given, and consists of tuition and examination fees, plus an allowance for books.

It should be noted that these forms of assistance are granted in relation to career training only and not for purely cultural studies. In deciding the type of bursary and the period for which assistance will be granted, factors such as interruption to study through service, length and type of service in the Armed Forces, relation to pre-service career, and prospects upon qualification and suitability for the particular course of study are all taken into account.

In certain cases bursaries are granted to enable an ex-serviceman to pursue a course of study overseas. These are only granted to men with long military service overseas and a serious intention to study or career, or for courses of study which are not available in New Zealand. A full overseas bursary usually includes subsistence allowance at the rate of £328 per annum sterling for married bursars and £250 per annum for single bursars, payable from the time of arrival in the United Kingdom until the earliest date a bursar can obtain a return passage to New Zealand after the completion of his course. Tuition and examination fees, refund for textbooks purchased up to £5 per academic year, tourist-class passages from and to New Zealand, voyage allowances at the rate of 16s. 5d. per day for married men and 5s. 3d. per day for single men, and reasonable travelling expenses in New Zealand and the United Kingdom (from home address in New Zealand to port of embarkation and port of disembarkation to place of study, with similar assistance on the return journey) are also payable.

Particulars of educational facilities granted to 31 March 1953 are contained in the following table.

Facilities	Ex-Overseas	Ex-Home Service	Total
Full-time assistance—			
(a) In New Zealand	3,253	227	3,480
(b) Overseas	727	5	732
Part-time assistance	13,754	2,641	16,395
Renewals—			
(a) Full-time	4,055	228	4,283
(b) Part-time	21,311	2,870	24,181
Miscellaneous facilities	2,893	350	3,243
Totals	45,993	6,321	52,314

Education and Career Assistance to Children of Deceased or Totally Incapacitated Servicemen.—In conjunction with the War Pensions Office, the Rehabilitation Board is also concerned with the education of the children of deceased servicemen whose deaths have been the result of war injuries, and of the children of ex-servicemen who through war disability are totally incapacitated for work. The responsibility for the education of these children through the primary and post-primary school stages is undertaken by the War Pensions Office. A bursary up to £25 per annum is available to eligible children attending post-primary schools. Assistance for education and career training after post-primary schooling is completed may be granted by the Rehabilitation Board, the assistance taking the form of tuition and examination fees and a contribution towards the cost of books. Where full-time study is approved, a subsistence allowance is payable, varying from £2 17s. 6d. per week to £4 0s. 6d. per week at the age of twenty-one years.

So that due encouragement is given to any children wishing to train for a worthy-white trade or career the Board will, where necessary, consider a payment to bring their wages up to £3 10s. 6d. net per week where required to live away from home or £2 17s. 6d. per week when living at home. Those twenty-one years of age and over, whether living at or away from home while engaged in career occupations not covered by apprenticeships, may be considered for a grant sufficient to bring their net wages up to £4 13s. per week.

FINANCIAL.—The following is a summary of loan limits and interest rates applicable to the various types of loan granted by the Rehabilitation Board.

Type of Loan	Maximum Amount	Rate of Interest
	£	Per Cent
(a) Tools of trade	50	Free
(b) Furniture	100	Free
(c) Business	500	4
(d) Farms—		
Going concerns—		
Dairy	5,000	3
Sheep	6,250	3
Stock and plant only—		
Dairy	1,500	4
Sheep or mixed	2,500	4
(e) House—		
New	2,000	3
Existing	1,800	3

In the case of business, farm, and housing loans the interest rate for the first year is reduced to 2 per cent per annum. Supplementary and suspensory interest-free loans are available in the case of housing loans in appropriate cases. Both classes of loan are on a percentage basis. Supplementary loans, which are interest-free and repayable only in the event of the sale of the security, amount to 5 per cent of the reasonable cost with a maximum of £100 in the case of new houses, and for existing dwellings are 5 per cent of the approved value with a maximum of £90. Suspensory loans, also interest-free, relate to new houses only and are cancelled after a period of seven years provided the owner fulfils the required occupancy conditions. They are limited to 10 per cent of the approved cost with a maximum of £200.

Supplementary loans have also been made available in a number of farm loans, and the Land Amendment Act 1950 extendable the "suspensory" loan principle to cases where ex-servicemen are settled, under the Rehabilitation Act, on Crown land after 1 November 1950. The suspensory loan in such cases is for an amount not exceeding the difference between the 1942 value and the current market value. Such a loan will not be enforceable as long as the purchaser resides personally on the land and farms it for his own use and benefit and fulfils the conditions of any prior mortgage to the Crown or to the State Advances Corporation.

Provided the purchaser fulfils these conditions the loan is discharged at the end of ten years. These suspensory loans were introduced consequent upon the passing of the Servicemen's Settlement Act 1950, which provided that the value of land for the purposes of that Act was to be the current market value instead of the 1942 value.

Particulars of the various classes of loan authorized during the year ended 31 March 1953, and the totals to 31 March 1953, are as follows.

Class of Loan	Year Ended 31 March 1953		Totals to 31 March 1953	
	Number	Amount	Number	Amount
		£		£
Purchase of farms, etc.	853	6,425,840	9,449	46,823,342
Housing loans	3,860	6,627,777	43,288	56,429,717
Tools of trade	14	532	1,459	48,135
Furniture	3,298	331,489	57,103	5,330,235
Business	428	326,360	10,699	6,857,419
Miscellaneous	29	3,848	633	128,668
Totals	8,482	13,715,846	122,631	115,617,516

Rehabilitation expenditure (including loan authorizations) for the year ended 31 March 1953, together with the totals to 31 March 1953, was as follows.

Item	Year Ended 31 March 1953	To 31 March 1953 From Outset
	£	£
Administration expenses	182,495	2,877,846
Advertising and publicity		21,263
Educational facilities, including books, tuition fees, and subsistence allowance	39,286	1,686,708
Farm training and settlement (excluding loans)—		
Farm training, including fees and subsistence allowance at approved agricultural colleges and training farms and subsidy to approved employers	5,332	481,262
Purchase of lands for settlement, development, and other expenses in connection therewith (excluding £12,757,298 recovered from Rehabilitation Loans Committee and appearing under "Loans")	2,885,172	25,441,918
	2,890,504	25,923,180
Trade training: Centres operated by Rehabilitation Department (includes establishment and operational charges, trainees' wages, separation allowances, and travelling expenses, tools, plant, and equipment)	116,817	5,856,378
Training of blinded ex-servicemen	3,534	95,893
Other, including grants, subsidies to employers, etc.	43,978	2,224,236
	164,329	8,176,507
Loans—		
Interest concessions	783,442	3,807,709
Loans authorized (Maori Rehabilitation Finance Committee)	317,960	1,582,830
Loans authorized (Rehabilitation Loans Committee)	13,715,846	115,617,516
Reserve Fund Contributions	184,475	1,575,335
Small Farms Act leases: Losses and interest concessions		55,327
Suspensory loans (Maori Rehabilitation Finance Committee)	25,193	44,119
Suspensory loans (Rehabilitation Loans Committee)	801,145	2,181,875
	15,828,061	124,864,711
Grants—		
Rehabilitation allowances		431,885
Special grants to ex-servicemen	17,561	105,234
Special grants to Returned Services' Associations	1,550	44,386
Travelling expenses of ex-servicemen, including fares, furniture removals, and loss of earnings	37	42,202
	19,148	623,707
Plans and specifications, including plan service		4,039
Other items		5,670
Totals	19,123,823	164,183,631

Business Assistance for Ex-servicemen.—In addition to the loan facilities available to assist ex-servicemen in purchasing existing businesses, or in establishing new businesses, special assistance is given to ex-servicemen requiring licences for licensed industries and trades, and also in obtaining stocks, plant, and equipment which may be in short supply or subject to control.

The following table shows the main classes of business for which loans have been granted up to 31 March 1953.

Class	Number Granted	Amount
		£
Butchery	235	199,897
Grocery, general store	727	626,586
Bakery, dairy, refreshment rooms	454	314,195
Stationery, fancy goods	129	97,294
Radio dealer, electrician	256	141,736
Hairdresser, tobacconist	131	68,490
Bootmaker	166	56,809
Chemist	35	38,180
Manufacturing business	324	215,224
Eggs, poultry, etc.	43	27,073
Milk rounds	344	286,730
Hotels, guesthouses	42	44,788
Fishing ventures	118	76,684
Agricultural contractors	444	319,786
Taxi, service car	2,294	1,253,874
Transport (general) and mail contractors	1,387	1,047,621
Building trades	929	490,351
Painter and paperhanger	331	121,004
Mechanical trades	490	333,390
Professional services	958	470,093
Miscellaneous	862	612,392
Totals	10,699	6,842,197

Housing.—Owing to the prevailing housing shortage, the housing of ex-servicemen has been one of the Rehabilitation Board's main problems. Assistance in this connection consists of a certain priority in the allocation of State rental houses, and provision of finance for the erection of new, and the purchase of existing, dwellings.

During the year ended 31 March 1953, 995 State rental houses and flats were allocated to ex-servicemen, making a total allocation to 31 March 1953 of 16,208.

The number of loan authorizations for the erection of new homes during the year ended 31 March 1953 was 1,349, making a total of 19,130 to 31 March 1953.

Loans for the purchase of existing dwellings were authorized in 2,511 cases in 1952-53, while the total up to the end of that period was 24,158.

MAORI REHABILITATION.—The following table gives particulars of assistance afforded to Maori ex-servicemen up to 31 March 1953. Maoris are entitled to the same assistance under the same general conditions as Europeans, although special measures have been provided to meet their particular needs.

At 31 March 1953, 5,214 Maori ex-servicemen had been demobilized, of whom 3,861 had served overseas.

Type of Assistance	Number of Ex-servicemen	Amount Authorized
		£
Farm land purchased		73,230
Loans—		
Farm loans	146	671,359
Housing loans	786	1,052,169
Furniture loans	1,222	120,739

Type of Assistance	Number of Ex-servicemen	Amount Authorized
Business loans	225	103,118
Tools of trade loans	60	1,941
Miscellaneous loans and grants	58	8,292
Totals, loans	2,497	1,957,618
Educational assistance	147	
Trade training—		
A Class	673	
B Class	51	
C Class	8	
D Class	58	
E Class	3	
Total, trade training	793	
Farm training	251	
Total number assisted	3,688	

In addition 89 ex-servicemen have been settled on farms under the Maori Land Amendment Act 1936 and 36 ex-servicemen have received housing assistance under the Maori Housing Act 1935.

DEMOBILIZATION.—Demobilizations as recorded by the Rehabilitation Department for the year 1952–53 totalled 783, the total to date being 213,096.

Chapter 10. SECTION 10—EXTERNAL TRADE

Table of Contents

[10 A—GENERAL](#)

[10 B—EXPORTS](#)

[10 C—IMPORTS](#)

[10 D—CUSTOMS TARIFF AND REVENUE](#)

10 A—GENERAL

DATA regarding the overseas trade of New Zealand have special significance in view of the country's particularly high degree of dependence upon its external trade. If a few entrepôt and similar trading centres are excluded, New Zealand's total international trade per head is higher than that of any other country. However, in making use of the external trade statistics their limitations for balance of payments studies should be clearly recognized.

In the first place these trade statistics do not relate to the whole of the New Zealand currency area, the Cook Islands, Niue Island, and the Trust Territory of Western Samoa not being included, while vessels transferred to or from New Zealand ownership travelling on their own bottoms are excluded from the statistics, so also are ships' stores (other than bunker fuel and goods on which drawback of duty is claimed).

Of greater significance is the basis of valuation used in recording exports and imports. Exports generally are recorded at free-on-board (f.o.b.) values, but in the case of goods exported by a New Zealand national to be sold in an overseas market (e.g., some wool) the actual net f.o.b. price realized could differ from the value estimated at time of shipment. Wool acquired under the wartime appraisal scheme and exported to be auctioned overseas was valued on export at appraisal prices. Since the prices realized at auction were higher, and New Zealand shared in this profit, export values for the years concerned are consequently undervalued.

Up to the end of 1951 imports were recorded on the basis of their value for Customs purposes, this being their current domestic value (c.d.v.) in the country of export at the time of shipment plus 10 per cent. For several years the limitations of this basis of valuation for economic studies, particularly those relating to balances of trade and of payments, had been apparent. There was a tendency generally to regard the Customs value of imports as being equivalent to at least a conventional c.i.f. value. In fact the Customs value of all imports probably fell short of the actual c.i.f. cost by varying amounts ranging up to 10 per cent. The domestic and export price levels in the exporting country may differ on account of price controls, subsidies, etc., while external packing, railway freights, etc., generally tend to raise the f.o.b. cost of goods above the current domestic price. For some few types of commodities the 10 per cent allowance is more than adequate to cover insurance and freight charges. For a larger proportion of imports, particularly those where the value relative to weight or bulk is low, the allowance is inadequate to cover these costs. As from 1 January 1952 a change was made in that imports were recorded in the trade statistics without the additional 10 per cent required for duty purposes—i.e., at current domestic value, generally, as indicated above, equivalent to but not identical with the f.o.b. cost. Provision was also made to record by class and grand totals the actual c.i.f. costs of imports.

The proportional difference between the two figures of valuation now made available—viz., c.d.v. and c.i.f.—will vary from period to period depending on (1) the make-up of imports in the different periods, (2) differential charges in import prices and in freight rates, (3) differences between domestic and export prices in the exporting countries, and (4) price fluctuations between dates of purchase and of shipping. The relatively high freight rates and insurance charges in wartime resulted in c.i.f. costs rising considerably above Customs values. The high charter freights of 1951–52 had a similar effect. In all the tables imports are now shown at c.d.v., unless otherwise specified in respect of particular tables.

The exports recorded in the trade statistics relate to goods on vessels which have cleared their final port of call in New Zealand during the period named, save that, in order to facilitate the flow of work through the Customs accounting machines, the figures for each month are in fact closed off some time prior to the end of the month. However, the omissions at the end of any month are balanced by the carry-forward from the end of the previous month. Since the whole of the end of the year holiday period falls in the January accounting period the figures for this month are typically low. Depending on the length of time a vessel is in New Zealand waters, goods could have been actually loaded several weeks before they are recorded in the export statistics.

The trade figures for imports are compiled from the import entries, either for home consumption or into bonded warehous, passed by the Customs Department. Under the system in use it is possible for an importer to pay the duty involved, if any, and have the import entry passed very shortly after he receives the shipping documents; this enables him to take delivery of the goods on arrival. Thus the import may be recorded before the carrying vessel has reached New Zealand. Generally, however, the import entries are not passed until the goods are available for discharge from the wharf. On the other hand, it may sometimes occur that goods may have been unloaded and in the custody of a Harbour Board for some time before the importer has the entry passed (and the import is recorded) and takes delivery.

In the official annual statistics of the trade of New Zealand the twelve-monthly period adopted is the calendar year. Summarized trade statistics over a long period of years are included in the Statistical Summary towards the end of this volume. The latest figures covering the principal items of export and import are published in the *Monthly Abstract of Statistics*, so that summarized figures are available for any twelve-monthly period ending in March, June, September, or December. As the farm production year ends about June and the financial year on 31 March, it is desirable to record trade for years ended 30 June and 31 March as well as for calendar years.

The following table relates to merchandise only—i.e., it excludes specie, particulars of which will be found on page 274. Up to the end of 1929 New Zealand currency and sterling were at virtual parity, but thenceforward New Zealand currency was at a discount with sterling until 20 August 1948, from when it was restored to parity with sterling (see Section 32—Banking and Currency). Consequently figures of total merchandise trade have been converted to a sterling basis, and a summary covering the last eleven years follows.

Year	Exports f.o.b.	Imports			Exports f.o.b.	Imports		
		c.d.v. + 10 Per Cent	c.d.v.	c.i.f.		c.d.v. + 10 Per Cent	c.d.v.	c.i.f.
(N.Z. '000)	(N.Z. '000)	(N.Z. '000)	(N.Z. '000)	(£Sig. '000)	(£Sig. '000)	(£Sig. '000)	(£Sig. '000)	
YEAR ENDED 31 DECEMBER								
1943	71,863	95,242	86,584	57,490	76,194	69,367		
1944	77,787	86,397	78,543	62,230	69,118	62,835		
1945	81,631	55,088	50,080	65,305	44,071	40,065		
1946	101,302	71,571	65,065	81,042	57,257	52,052		
1947	129,420	128,641	116,946	103,536	102,913	93,557		
1948	147,821	128,534	116,849	125,375	110,926	100,842		
1949	147,281	120,033	109,121	147,281	120,033	109,121		
1950	183,752	157,943	143,585	183,752	157,943	143,585		
1951	248,127	206,534	187,758	248,127	206,534	187,758		
1952	240,561	229,447	226,215	240,561	229,447	226,215		
1953*	235,596	163,446	192,143	235,596	163,446	192,143		
YEAR ENDED 31 MARCH								
1943	76,112	60,968	55,425	60,890	48,774	44,340		
1944	75,252	95,850	87,136	60,202	76,680	69,709		
1945	79,352	81,611	74,192	63,482	65,289	59,354		
1946	88,976	57,003	51,821	71,181	45,603	41,457		

* Provisional.

Year	Exports f.o.b.	Imports			Exports f.o.b.	Imports		
		c.d.v. + 10 Per Cent	c.d.v.	c.i.f.		c.d.v. + 10 Per Cent	c.d.v.	c.i.f.
1947	107,518	81,733	74,303		86,014	65,386	59,442	
1948	140,139	138,306	125,733		112,112	110,645	100,586	
1949	148,288	119,435	108,577		134,819	108,841	98,946	
1950	154,603	134,825	122,569		154,603	134,825	122,568	
1951	197,173	152,358	138,508		197,173	152,358	138,507	
1952	248,820	246,901	224,456		248,820	246,901	224,455	
1953*	238,413		198,713	240,725	238,413		198,713	
YEAR ENDED 30 JUNE								
1943	71,712	71,958	65,416		57,370	57,566	52,333	
1944	73,235	97,490	88,628		58,588	77,992	70,902	
1945	86,923	67,735	61,577		60,538	54,188	49,262	
1946	91,004	62,662	66,966		72,805	50,130	45,573	
1947	122,875	90,960	82,691		97,660	72,768	66,153	
1948	146,634	146,843	133,494		117,307	117,474	106,795	
1949	149,069	110,492	100,447		144,926	107,107	97,370	
1950	162,040	140,743	127,953		162,040	140,748	127,953	
1951	207,708	164,902	149,911		207,708	164,902	149,911	
1952	253,802	272,303	247,548		253,802	272,303	247,548	
1953*	243,883		171,592	208,224	243,883		171,592	

* Provisional.

TRADE PER HEAD.—The next table shows the total merchandise trade, exports, and imports per head of the population. Values are expressed in terms of New Zealand currency.

Year	Exports		Imports		Total Trade	Year	Exports		Imports		Total Trade
	£	s. d.	£	s. d.			£	s. d.	£	s. d.	
1933	26	12 8	16	12 4	43 5 0	1944	46	19 7	52 3 7	99 3 2	
1934	30	10 3	20 4	0 50	14 3	1945	48 3 5	32 10 2	80 13 7		
1935	29	15 9	23 4 11	53 0 8	1946	57 11 6	40 13 6	98 5 0			
1936	36 0 7	28 1 11	64 2 6	1947	71 19 5	71 10 9	143 10 2				
1937	41 19 2	35 6 5	77 5 7	1948	80 11 5	70 1 2	150 12 7				
1938	36 6 8	34 9 10	70 16 6	1949	78 13 9	64 2 7	142 16 4				
1939	35 12 11	30 6 6	65 19 5	1950	96 5 0	82 14 8	178 19 8				
1940	45 0 9	29 18 6	74 19 3	1951	127 8 1	106 1 0	233 9 1				
1941	41 7 6	30 2 11	71 10 5	1952	120 10 3	114 18 11*	235 9 2				
1942	49 11 6	32 16 11	82 8 5	1953†	114 19 9	79 15 7	194 15 4				
1943	43 18 9	58 4 7	102 3 4								

* From 1952 valuation of imports at c.d.v. In previous years these were valued at c.d.v. plus 10 per cent.

† Provisional.

The import figures for the years 1942 to 1945 did not represent purely commercial imports, but included large figures for munitions and war stores, especially in 1943 and 1944. Except for 1949, each of the last seven years has successively produced a figure for total trade per head higher than that of the preceding year. The reduction in 1949 was due to the appreciation of New Zealand currency to parity with sterling, with its concomitant drop in the export and import price levels.

The table following shows comparative figures of total trade per head in 1952 for countries of New Zealand and certain other countries. The European countries shown are those with particularly high figures in this respect. The figures for the United Kingdom are from official publications, those for the other countries for a United Nations publication.

	Total External Trade Per Head
—	(£Sig.)
New Zealand	235
Canada	212
Belgium-Luxemburg	194
Hong Kong	186
Switzerland	171
Sweden	165
Australia	155
Venezuela	154
Denmark	149
Netherlands	149
Malaya and Singapore	133
United Kingdom	117
France	70
United States of America	59

The above figures are the best indicators readily available of the relative importance of its overseas trade to the economy of each country concerned.

VISIBLE BALANCE OF TRADE.—As a debtor country New Zealand has normally a substantial excess of exports over imports, imports having exceeded exports in only six (calendar) years since 1885—viz., in 1908, 1920, 1926, 1943, 1944, and 1952. The figures for the last twenty years—merchandise only—are as follows. Imports are here valued as for Customs purposes (c.d.v. plus 10 per cent).

Year	Visible Excess of Exports	
	(N.Z.)	(£Sig.)
1933	15,424,553	12,340,000
1934	16,003,295	12,803,000
1935	10,221,114	8,210,000
1936	12,493,054	10,035,000
1937	10,552,684	8,476,000
1938	2,954,094	2,373,000
1939	8,662,133	6,929,000
1940	24,743,464	19,795,000
1941	18,312,403	14,650,000
1942	27,428,625	21,943,000

* Excess of imports.

† As from 20 August 1948 New Zealand currency was appreciated to parity with sterling.

Year	Visible Excess of Exports	
	£(N.Z.)	£(N.Z.)
1943	-23,379,732*	-18,704,000*
1944	-8,610,266*	-6,888,000*
1945	26,543,096	21,234,000
1946	29,730,933	23,785,000
1947	778,821	623,000
1948	19,286,773	14,449,000
1949	27,247,479	27,247,000
1950	25,809,415	25,809,000
1951	41,593,657	41,594,000
1952	-11,831,335*	-11,831,000*

* Excess of imports.
 † As from 20 August 1948 New Zealand currency was appreciated to parity with sterling.

NOTE.—The 1942–45 figures included imports of lend-lease supplies which did not involve normal transactions in monetary exchange (being cancelled by reciprocal aid provided in New Zealand). To show the true balance of trade they should be eliminated, giving approximate export surpluses for the four years as follows (New Zealand currency): 1942, £38,000,000; 1943, £4,000,000; 1944, £13,000,000; 1945, £34,000,000.

A pronounced fall in exports from the previous year's level was responsible for the low excess of exports in 1938. The improvement in 1939 was effected by a reduction in imports under the policy of import selection and control inaugurated at the beginning of that year. Extremely large import totals, mainly as the result of the huge expansion of the importation of defence materials and supplies under lend-lease arrangements (which to a large extent invalidates comparisons with earlier years), were responsible for the excess of imports in 1943 and 1944. At the conclusion of the war the fall in imports of defence materials and lend-lease supplies and increases in exports combined to produce large favourable balances, that for 1946 being a new record. The value of exports in 1947 was 28 per cent higher than in 1946, but imports increased in value between the two years by 80 per cent, so that the excess of exports fell away to only £778,821. Continuing substantial increases in the values of exports (partly disguised in the New Zealand currency figures by the appreciation of the £N.Z. to parity with sterling), accompanied by less marked increases (except in 1950) in the values of imports, resulted in the 1948, 1949, 1950, and 1951 figures for the visible excess of exports being of a high order. The particularly high wool prices of the 1950–51 selling season were reflected more fully in the 1951 export figures, the favourable balance for that year at £41,594,000 being 40 per cent higher than the previous record in 1946.

The high export values were maintained in 1952, but owing to several factors imports in that year rose to an unexpectedly high figure: the strong demand for imported goods was accentuated by buoyant export prices; import controls had been progressively lifted and some importers (after the experience of many years of limited imports) were over-sanguine both of the market demand and of the share of his market which they could expect to obtain; orders placed overseas in expectation of long delays in delivery were unexpectedly fulfilled when manufacturers' alternative markets were closed.

Some measures to control and discourage the flow of imports were taken at the beginning of 1952, primarily in the interests of the balances of the sterling area as a whole, and these were followed by more stringent measures when the danger to New Zealand's own overseas balances became apparent. (See note on Import and Export Control—page 272.)

The visible balance of trade—i.e., the excess of exports over imports or vice versa—is an essential record valuable for numerous purposes, but with very definite limitations to which attention has been drawn in the opening paragraphs of this section. For year-to-year comparisons of the values of exports and imports the inevitable errors in the figures are of no statistical significance, but they do result in significant errors in the residual visible balances of exports or imports, especially so when these balances are small.

There are additional difficulties where trade with individual countries is concerned. The ultimate destination of goods exported is sometimes not known at the time of export. In particular, it is evident from the United Kingdom trade statistics that a considerable proportion of New Zealand's exports to continental countries in normal times is recorded in the New Zealand statistics among exports to the United Kingdom. Such produce may be sold on the United Kingdom markets to continental purchasers; while, again, goods may be diverted to continental markets after arrival in the United Kingdom.

Various factors arising out of the war further obscured the position in those years, particularly during the period that the Lend-Lease and the Canadian Mutual Aid Agreements were operating. In considering the 1942–45 balances the effect of the inclusion in imports of lend-lease supplies should be noted. With the mutual cancellation of any obligations under lend-lease and reciprocal arrangements as announced in the final settlement it will be apparent that lend-lease imports were not the subject of ordinary transactions in monetary exchange, and their inclusion in imports conveys a false impression in so far as balances of payments are concerned. A further complication in this connection arose during the war period in connection with exports. Considerable quantities of foodstuffs and equipment were exported for the use of Allied Forces, etc., at the direction of the United Kingdom Government. In accordance with the general practice, such exports were credited to the country of final destination—e.g., Egypt, Algeria, Iraq, Italy, India, etc.—although the responsibility for payment rested with the United Kingdom Government.

This position, goods exported to one country being paid for by the nationals of another country, arises also where operators deal internationally in commodities. Thus a national of one country may purchase, say, wool, but consign it to another country for processing. In the trade statistics the wool would be shown as exported to the country of consignment, not that of the national who purchased it. Similarly, the import of a commodity, say, motor spirits, from one country will not necessarily involve any direct payment to a national, or in the currency, of that country.

Visible trade is not the only factor to be taken into account in considering the balance of payments between countries. Debt services, capital transfers, charitable and other personal remittances, freight payments, insurances, tourist expenditure, and the like, are vitally important factors which frequently reverse a credit visible balance of trade into a debit balance of payments. A statement of New Zealand's overseas receipts and payments is given later in this Section.

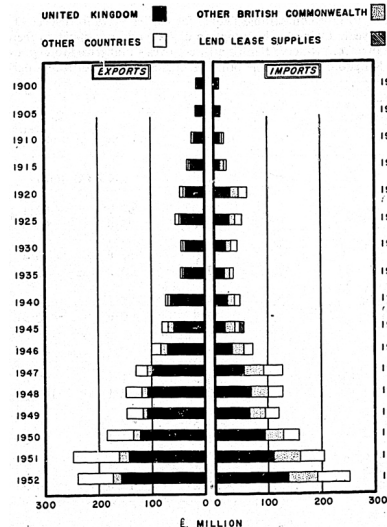
The following table shows for the year 1952 the amount of merchandise exports to, and imports from, each of the principal countries trading with New Zealand. Exports are valued f.o.b. New Zealand ports, and imports at current domestic value in country of shipment. The New Zealand trade statistics will yield different results, in respect of its trade with any given country, from those obtained from the trade statistics of that country, since in the latter New Zealand's exports will normally be valued c.i.f. in the given country and New Zealand's imports f.o.b. in that country.

TRADE BY COUNTRIES, 1952

Country	Exports		Imports	
	New Zealand Produce £(N.Z.)	Total £(N.Z.)	By Country of Purchase £(N.Z.)	By Country of Origin £(N.Z.)
United Kingdom	156,237,501	156,485,253	129,213,357	125,990,760
Bahrein Island		2,663,231		2,678,096
British Borneo	2,487	2,497	625,420	998,818
Ceylon	17,988	18,045	1,351,528	1,359,731
Hong Kong	66,701	67,943	353,247	282,218
Republic of India	1,502,182	1,503,994	2,298,620	2,335,243
Federation of Malaya	420,326	428,965	3,661,363	1,783,036
Pakistan	197,678	197,678	12,612	
British West Africa	142,065	142,065	517,703	540,174
Kenya and Uganda	15,302	15,516	299,284	307,036
Tanganyika	355	355	257,923	259,081
Union of South Africa	551,329	557,847	1,205,894	1,251,663
British West Indies	1,531,628	1,531,868	935,186	1,004,185
Canada	5,209,211	5,212,478	8,277,165	8,070,631
Australia	3,470,802	3,930,237	24,887,193	24,364,530
Fiji	640,363	839,005	2,359,728	2,332,015
Nauru	28,558	40,519	618,776	622,665
Tonga	203,987	239,398	28,129	25,180
Western Samoa	326,485	395,180	191,723	186,773
Other British Commonwealth countries	930,288	971,720	310,783	320,699
Totals, British Commonwealth countries	171,495,156	172,580,563	180,068,865	174,725,146
Republic of Ireland	3,367,202	3,367,346	43,973	38,625
Austria	34,583	34,583	665,573	682,454
Belgium	2,982,238	2,983,281	4,287,152	4,625,189
Czechoslovakia	602,780	604,292	315,754	352,342
Denmark	642,368	642,368	215,329	217,732
Finland	49,484	49,484	470,229	503,733
France	10,557,781	10,558,649	3,009,367	3,621,742
Germany (Federal Republic)	5,220,055	5,227,023	2,127,214	2,279,999

Country	Exports		Imports	
	New Zealand Produce	Total	By Country of Purchase	By Country of Origin
Greece	380,059	380,059	18,912	21,485
Italy	4,362,342	4,362,418	1,277,931	1,488,372
Netherlands	2,035,380	2,036,368	2,172,041	2,270,021
Norway	40,769	40,790	608,996	637,924
Poland	2,960,692	2,960,692	4,618	6,815
Russia (U.S.S.R.)			9,497	60,166
Sweden	485,439	486,492	2,973,853	3,110,269
Switzerland	53,444	56,447	986,045	1,027,620
Yugoslavia	55,074	55,086	86	107
China			91,991	236,022
Indonesia	9	9	3,418,716	4,879,760
Iran			163,713	208,009
Japan	3,493,505	3,505,334	3,743,668	3,758,903
Egypt	136,418	136,418	3,485	3,871
Tunisia			183,719	189,085
Mexico	266,615	267,005	154,480	156,342
Netherlands Antilles	322,195	322,195	787,872	1,258,539
Panama Republic	202,961	202,961		
United States of America	27,195,172	27,267,434	20,054,135	21,249,321
Society Islands	291,547	306,007	4,414	2,533
Remaining countries	1,081,926	1,106,672	1,585,681	1,835,183
Totals, other countries	66,820,038	66,959,413	49,378,444	54,722,163
Ships' stores	103,530	1,020,728		
Grand totals	238,418,724	240,560,704	229,447,309	229,447,309

The progress of, and the trends in the direction of New Zealand's overseas trade, are illustrated by the following diagram. Among the features portrayed are New Zealand's dependence on the United Kingdom as a market for its exports, and the huge expansion in the values of both exports and imports in the post-war years, despite the deflationary effect of the appreciation of New Zealand's currency in 1948.



OVERSEAS RECEIPTS AND PAYMENTS.—Since the institution of exchange control in New Zealand it is possible through the records of the Reserve Bank, which administers exchange control, to give a detailed statement of the foreign exchange transactions of the country.

The first table shows, in summary form, figures relating to overseas receipts and payments for the last nine years, and for each of the quarters of the two latest years. The figures relate to the whole of the New Zealand currency area, which includes the island territories and Western Samoa.

Calendar year—	Receipts		Payments			Surplus (+) or Deficit (-)		
	Exports	Total (Including Other)	Imports Private/Government	Government Debt and Other Services	Other Payments			
	EN Z.000							
1945	97,574	129,152	31,745	40,195	14,057	85,997	+43,155	
1946	112,054	148,133	60,118	78,941		15,634	154,693	-6,560
1947	129,045	164,521	115,190	56,398		18,881	190,469	-25,948
1948	145,270	174,808	108,189	46,579		25,232	180,000	-5,192
1949	139,203	158,734	109,657	28,426		27,140	165,223	-6,489
1950	194,786	213,576	140,816	22,038	6,406	29,861	199,121	+14,455
1951	254,135	276,134	201,293	18,916	11,078	28,790	260,077	+16,057

NOTE.—New Zealand currency was raised to parity with sterling on 20 August 1948.

—	Receipts			Payments				Surplus (+) or Deficit (-)
	Exports	Total (Including Other)	Imports	Government	Government Debt and Other Services	Other Payments	Total	
1952	216,133	245,362	200,060	30,290	8,213	30,240	268,803	-23,441
1953	243,469	266,318	170,473	27,064	14,315	28,297	240,149	+26,169
Quarter ended—								
1952—March	69,470	78,848	68,074	9,279	2,800	6,915	87,068	-8,220
June	54,418	62,164	54,206	6,707	1,538	8,013	70,464	-8,300
Sept.	40,948	47,452	43,162	7,362	1,703	7,278	59,505	-12,053
Dec.	51,297	56,898	34,618	6,942	2,172	8,034	51,766	+5,132
1953—March	80,625	86,702	40,050	8,142	5,924	6,263	60,380	+26,323
June	61,925	67,071	37,174	5,653	2,157	6,808	51,791	+15,280
Sept.	41,874	47,972	42,887	6,620	3,529	7,854	60,891	-12,919
Dec.	59,045	64,573	50,361	6,649	2,704	7,374	67,088	-3,515

NOTE.—New Zealand currency was raised to parity with sterling on 20 August 1948.

It is not practicable to give comparable figures for earlier years in respect of the items listed in 1950 and subsequent years owing to the adoption of a revised classification from October 1949. The next table, also drawn from Reserve Bank statistics, gives summarized foreign exchange transactions with the United Kingdom and with the principal currency areas for recent periods.

Transactions With	1952		1953	
	Six Months Jan.-June	Six Months July-Dec.	Six Months Jan.-June	Six Months July-Dec.
United Kingdom—	EN Z.(Million)			
Receipts—				
Exports	78.0	67.7	92.1	75.6
Total	90.1	75.8	98.8	82.2
Payments—				
Imports	96.0	62.6	65.4	72.7
Total	107.8	75.2	77.9	84.5
Surplus (+) or deficit (—)				
On trade transactions	-18.0	+5.1	+26.7	+3.0
On all transactions	-17.8	+0.6	+20.9	-2.3
Sterling Area—				
Receipts—				
Exports	84.3	71.1	98.8	80.2
Total	100.2	82.1	109.1	90.9
Payments—				
Imports	114.5	77.2	80.3	91.6
Total	131.4	94.1	98.8	109.8
Surplus (+) or deficit (—)				
On trade transactions	-30.1	-6.2	+18.5	-11.4
On all transactions	-31.2	-12.0	+10.3	-18.9
Dollar Area—				
Receipts—				
Exports	20.5	8.0	18.0	6.2
Total	21.5	8.9	18.6	7.0
Payments—				
Imports	15.6	11.2	7.2	10.8
Total	17.3	12.9	9.1	13.5
Surplus (+) or deficit (—) on all transactions	+4.2	-4.0	+9.5	-6.5
Non-Sterling European Payments Union countries and possessions—				
Receipts—				
Exports	16.5	9.2	22.3	10.1
Total	16.7	9.4	22.6	10.2
Payments—				
Imports	5.7	2.8	3.0	3.6
Total	6.0	3.2	3.4	4.0
Surplus (+) or deficit (—) on all transactions	+10.7	+6.2	+19.2	+6.2

The export receipts and import payments figures recorded in these tables differ from the corresponding external trade figures as a result of (1) the different territorial coverage of the two sets of figures, (2) the lack of uniformity in the basis of valuation, particularly in imports, (3) the inclusion in the trade figures of "no-remittance" imports and similar movements of goods with no corresponding monetary transactions, and (4) the actual movements of goods and the corresponding monetary transactions occurring in different recording periods.

These exchange figures, like the trade figures on page 262, show the development and subsequent curbing of the import boom. They bring out, too, New Zealand's heavy annual deficit on "invisibles" with the sterling area, mainly United Kingdom and Australia, which has to be made good by a surplus on commodity trade. The nature of these "invisibles" is apparent in the next table giving detailed figures for the 1952 and 1953 calendar years.

Item	Year Ended 31 December			
	1952		1953	
	Receipts	Payments	Receipts	Payments
Merchandise—	EN Z.(000)	EN Z.(000)	EN Z.(000)	EN Z.(000)
Exports	216,133	243,469		
Imports		56,495		38,561
Licensed imports		139,172		128,327
Government imports		30,290		27,064
Other imports		4,393		3,585
Totals, merchandise	216,133	230,350	243,469	197,536
Transport—				
Freights, fares, ships' charters	1,788	4,196	1,510	1,557
Travel—				
Private and business (exclusive of fares)	1,685	5,086	1,574	4,673
Insurance—				
Insurance	622	709	830	1,311
Reinsurance	622			624
Totals, insurance	622	1,331	830	1,935
International investment income—				

Item	Year Ended 31 December			
	1952		1953	
	Receipts	Payments	Receipts	Payments
Interest, dividends, and other private investment income	5,432	5,702	5,900	5,113
Interest on Government and local authority loans		2,715		2,691
Totals, international investment income	5,432	8,417	5,900	7,804
Government transactions—				
Current expenditure by New Zealand Government overseas		5,136		11,049
Current receipts by New Zealand	1,140		1,825	
Government and expenditure by other Governments in New Zealand				
Totals, Government transactions	1,140	5,136	1,825	11,049
Miscellaneous current transactions—				
Commissions, royalties, rebates, etc.	1,281	1,817	484	1,363
Films and entertainments		720		849
Unilateral transfers (migrants' transfers, personal remittances, charitable, legacies, etc.)	7,439	4,713	5,822	5,803
Expenses of business firms	753	2,304	392	3,022
Other current transactions	1,383	419	875	645
Totals, miscellaneous current transactions	10,855	9,972	7,573	11,682
Capital transfers—				
Private	7,699	3,642	2,772	3,233
Government		596	782	526
Local authority		76		154
Totals, capital transfers	7,699	4,315	3,554	3,913
Unidentified	8		83	
Grand totals	245,362	268,803	266,318	240,149

INDEX NUMBERS OF VOLUME OF EXTERNAL TRADE.—Annual index numbers of the volume of total exports, imports, and total trade have been regularly shown in the Year-Book, but the publication of the series for the three major export groups and for all New Zealand produce is a new departure. Quarterly indices on this same basis are also now published in the *Monthly Abstract of Statistics*.

The series for exports of New Zealand produce are linked chain series. Up to the year 1949 the exports of each year were revalued at the unit-values of the immediately preceding year and the aggregate so obtained (after imputing to the 2 per cent of items, for which quantities and consequently unit-values were not available, similar price movements to the priced items) was compared with the recorded value in that (preceding) year. Each year's index was, therefore, a Laspeyres type index on base previous year. From 1950 on, aggregates were also calculated for immediately preceding years at the unit-values of the latest year, which, compared with the recorded value in the latest year, gave a Paasche type index. The final index for the year was then obtained as the geometric mean of these two—i.e., a Fisher "Ideal" index. In the table the successive annual movements are linked into a chain. The quarterly indices are similarly calculated on base previous year, but only a limited number of the more important commodity headings are used in the calculation. When the final indices for the year become available the quarterly indices are adjusted to accord with these; consequently, the indices for quarters are provisional.

Apparent discrepancies in the table between the indices for the three major groups and that for all exports of New Zealand produce, in particular for the years 1944 and 1951, arise partly from disparate movements in commodities outside the three major groups and partly from the methodology of the index.

The series for total exports includes an allowance for re-exports of imported goods. Since these are normally less than 1 per cent of total exports and only became significant during the war years, the approximate volume movements were obtained by "deflating" the recorded values by the import price index as the best indicator available of price movements for these commodities. The two indices, exports of New Zealand produce and re-exports, were then combined by weighting by their relative values in the base period. This is a change from the method previously used and has resulted in some slight alterations in the indices' for those previously published in the Year-Book.

The import volume index up to 1946 was calculated by revaluing each year's imports at 1937 unit-values, assuming comparable price movements in the unpriced items as in the priced items. Thereafter a change was made to the calculation of each year on base previous year and the linking of these annual movements. Anterior year weights were used up to 1949 to give a Laspeyres type index. From 1950 on, a Fisher "Ideal" index has been obtained as the geometric mean of both anterior year and current year weighted indices. The quarterly indices, too, are calculated on base previous year, and, like the export series, are provisional until the calculation of the annual index. Currently, the items for which quantities are recorded (and consequently unit-values obtained) represent approximately two-thirds of the total value of imports. Price movements are imputed to the remaining third on the basis of the price movements of items in the same statistical class.

The total exports and imports series are combined into the total trade series by weighting by their relative values in the base period.

VOLUME INDEX NUMBERS OF EXTERNAL TRADE. Base: 1936-38 (=100)

Calendar Year	New Zealand Produce			Total Exports	Imports	Total Trade
	Dairy Produce	Meat	Wool			
1942	105	121	110	114	113	74
1943	85	100	73	95	96	128
1944	84	81	68	92	97	105
1945	83	104	62	92	94	64
1946	79	126	131	111	111	75
1947	97	127	135	118	118	116
1948	99	128	148	122	122	114
1949	113	130	151	128	128	117
1950	111	128	138	122	122	141
1951	119	110	110	109	109	157
1952	138	153	153	143	143	176

INDEX NUMBERS OF VALUE OF EXTERNAL TRADE.—The following table provides index numbers for the value of New Zealand's external trade on the basis of New Zealand currency for the years 1942-52.

VALUE INDEX NUMBERS OF EXTERNAL TRADE. Base: 1936-38 (=100)

Year	Exports	Imports	Total Trade
1942	154	104	120
1943	119	183	149
1944	128	166	146
1945	135	106	121
1946	167	138	154
1947	214	248	229
1948	244	247	246
1949	243	231	237
1950	303	304	304
1951	409	398	404
1952	397	486	438

IMPORT AND EXPORT PRICES AND TERMS OF TRADE.—Descriptions of the index numbers of export and import prices compiled in New Zealand are given in Section 36. The table below shows, for the years 1936 to 1952, index numbers of import prices and of export prices and terms of trade for major commodity groups and total exports. The terms of trade indices relate the movements in export prices from the base period in relation to the movements in import prices over the same periods. If export prices rise by a greater percentage, or fall by a lesser percentage, than do import prices (either of these relative movements would be favourable to New Zealand, enabling more imports to be purchased than hitherto for the same exports), the terms of trade index rises above 100. Conversely, if the relative movement of export and import prices is unfavourable the terms of trade index falls below 100. The relatively higher freight charges during the war years have been allowed for in the import price index, used in this table, but the high charter freight rates of 1951-52 have not been allowed for. No allowance has been made for the lump-sum payments received from the United Kingdom during the later war and early post-war years.

INDEX NUMBERS OF PRICES AND TERMS OF TRADE OF EXPORT COMMODITIES, 1936-38 (= 100)

Year	Import Prices	Butter		Cheese		Meat		Wool		All Exports	
		Price	Terms of Trade	Price	Terms of Trade	Price	Terms of Trade	Price	Terms of Trade	Price	Terms of Trade
1936-38	100	100	100	100	100	100	100	100	100	100	100
1936	96	94	98	92	96	96	100	82	85	93	97
1937	102	98	96	97	95	99	97	131	128	107	105
1938	102	108	111	105	108	103	87	85	101	99	99
1939	102	113	111	105	103	98	96	81	79	98	96
1940	123	118	96	121	98	108	88	112	91	113	92
1941	138	119	86	124	90	108	78	112	81	115	83
1942	154	120	78	132	86	108	70	112	73	117	76
1943	176	124	70	126	77	110	62	124	70	122	69
1944	176	138	78	143	81	115	65	127	72	128	73
1945	174	160	92	163	94	122	70	127	73	138	79
1946	190	167	88	167	88	135	71	141	74	151	79
1947	226	194	86	200	88	164	73	182	81	189	84
1948	230	213	93	221	96	162	70	232	101	209	91
1949	210	206	98	201	96	152	72	247	118	203	97
1950	230	222	97	217	94	165	72	512	223	284	123
1951	269	241	80	232	86	184	68	622	231	333	124
1952	293	261	89	253	86	213	73	350	119	265	90

The series show that throughout the war and early post-war years New Zealand's terms of trade were less favourable than they were immediately prior to the war. The rise in wool prices following the outbreak of the Korean war reversed this position for wool and for exports as a whole, although the terms for the other major commodities were still less favourable than in the base period.

It should perhaps be emphasized that the base period used, 1936-38, has been adopted purely as a convenient pre-war period. It is not suggested that the period represented one in which export and import prices were at an essentially "normal" parity. Consequently, the deterioration in the terms of trade in the war and early post-war years could be as easily due to particularly favourable terms in the base period as to particularly unfavourable terms in the later years. Owing to the difficulties of constructing long-term price indices, with their ever-changing commodity patterns, the series should be regarded more as indicative of, rather than as precise measures of, the movements. During the war years, and again following the outbreak of the Korean war, sea freight and insurance costs rose relatively more than commodity prices, so that an import price index based on c.i.f. costs in New Zealand would have been higher than those years than the existing index based on values in the exporting countries, and the terms of trade indices would have been still more unfavourable.

IMPORT AND EXPORT CONTROL AND EXCHANGE ALLOCATION.—A decline in overseas assets commenced during 1936-37 and, allowing for seasonal fluctuations, continued steadily until 28 November 1938, when the net overseas assets of the Reserve Bank and the trading banks were under £1N.Z.8,000,000.

With a view to conserving overseas assets, so as to ensure that overseas debt services would be met and that sufficient funds would be available for essential imports, regulations—effective from 7 December 1938, and known respectively as the Import Control Regulations 1938 and the Export Licences Regulations 1938—were made by Orders in Council of 5 December 1938.

The Import Control Regulations prohibited the importation of goods except in pursuance of a licence under the regulations or of an exemption granted by the Minister. Under the Export Licences Regulations, goods (with certain minor exceptions) could not be exported except under licence.

Three classes of export licences are provided for—viz., particular, general, and purchaser's. The particular licence applies to an occasional shipment; the general licence is issuable to exporters who make regular or frequent shipments; and the purchaser's licence is for cases where goods have been purchased for export by means of credits made available from overseas. A condition of the issue of any export licence is that the overseas credits arising from the sale of the goods (or used to finance their purchase) must be sold to a New Zealand bank in exchange for New Zealand currency.

For imports the licensing schedule issued in the latter half of each year contained items which could be divided into three main groups—viz., (a) items virtually excluded from importation, (b) items allowed to be imported only after close examination of each individual application, and (c) items allowed to be imported on a "basic allocation" dependent on the prior approval of the applicant. In the consideration of a licence the factors taken into account included such matters as past imports, probable demand and overseas supply, local availability (actual or potential), and Government policy in relation to protection of industry or special and specific limitation of consumption of certain types of goods. A further important feature of the policy was the desire to give the greatest possible preference to the goods of United Kingdom manufacturers.

In May 1950 the Government made provision for the issue of "no-remittance" import licences authorizing the importation of goods of such classes as were deemed desirable on the grounds of relative essentiality and inadequacy of supplies to meet normal requirements. Official overseas funds of banking institutions were in no case to be called on for the financing of "no-remittance" import licences, but provision was made for the transfer of private funds held overseas within the sterling area, such transfers to be made at the current rate of exchange.

A representative Import Advisory Committee was appointed in May 1950 to examine the import licensing system and recommend improvements in its administration, and was followed by the establishment of a Board of Trade (under the Board of Trade Act 1950) to advise the Government on matters relating to industrial and trade development, import licensing and export licensing (except agricultural and pastoral products), tariffs and trade negotiations, the marketing and distribution of products, and the acquisition of raw materials and other goods for use in industry.

By the end of 1950 over 400 of the approximately 1,000 items comprised in the licensing schedules of earlier years had been freed from licensing control (see next section). In the following year the number of decontrolled items from soft-currency areas was further increased and included a large number of items competitive with New Zealand manufactures, after the Board had considered the objections of local manufacturers.

By December 1951 the number of controlled items had been reduced to 300, and of these one-third were only residual portions of items which had been partially decontrolled.

A new departure announced in December 1951 was "wored exemption" of six items, which meant that these items were free to be imported from any country without licence.

In order to assist in measures for strengthening the sterling area reserves and the balance of payments generally the Government of New Zealand announced in March 1952 certain decisions designed to ensure an increased surplus in New Zealand's overall balance of payments with non-sterling countries. Measures listed affecting import licensing included the cancellation of licences issued for imports from all "scheduled" countries (the United States of America, Canada, and Japan being the countries principally concerned), new licences being required for all future imports from these countries; and the importation of motor vehicles from all countries was brought under import licensing control.

In December 1951 the Reserve Bank, in commenting on the continued upward trend in bank advances, stated that the abnormal volume of imports was to a large extent being financed with bank credit and that this development had to be corrected because imports were outstripping available overseas income by a wider margin than could be continued for long. The Bank was therefore strengthening its selective control of advances by measures which included a request to the trading banks not to increase imports' overdraft limits for the purpose of buying overseas funds. The trading banks were given a discretionary authority for a fixed-over period of three months.

At the end of March 1952 the Reserve Bank stated that owing to several factors, including the fall in the prices of wool and other products, imports were running at a rate which required specific measures to prevent overseas reserves being depleted below a reasonably safe level. Accordingly, sales of exchange to importers by the trading banks during 1952 were to be limited, except with the prior approval of the Reserve Bank, to 80 per cent of the sales to the same importers in 1950. Where an importer required more than this basic allocation, application had to be made to the Reserve Bank through a trading bank. Each application was to be considered on its merits, and decisions made in consultation with the Board of Trade, the Customs Department, the Department of Industries and Commerce, and the Treasury, taking into account (1) the essentiality of the goods, (2) whether the goods were already in oversupply, (3) firm commitments already entered into by importers and import licence holders by importers, (4) any other special circumstances. It was anticipated that £170 million to £180 million could be made available for non-Government imports for 1952 by supplementing overseas receipts by a reasonable amount drawn from the Reserve Bank's reserves of overseas exchange. In the event overseas receipts were rather higher than anticipated, and the total of payments for non-Government imports for the year reached £200 million.

Importers' basic allocations of exchange for 1953 were announced on 4 August 1952 at 40 per cent of the 1950 figures. The announcement stated that, taking into account the Reserve Bank's statutory duty to maintain reserves which would provide a reasonable margin for contingencies, the Bank was not prepared, unless circumstances were exceptional, to draw further from overseas reserves in 1953. It was therefore imperative to ensure that the degree of freedom given importers was consistent with the making of sufficient exchange available for the purchase of the country's essential import requirements. It was estimated that overseas receipts in 1953 would enable £170 million to be made available for non-Government imports through basic and supplementary exchange allocations.

The Import Licensing Schedule for 1953 issued at the same time freed over 20 more items from licensing control. Import licensing has now been removed from a large proportion of New Zealand's imports (except where these form "scheduled" countries), but a considerable number are still under control; in almost all these cases local manufacture is concerned.

In June 1953 the basic allocation for 1954 was announced to be 50 per cent of the remittances in 1950 for imports after deducting remittances in that year for (a) motor vehicles, (b) goods paid for under Third Party Certificates, (c) Government imports, and (d) goods for which it would be necessary to apply for an allocation of exchange in 1954. The trading banks were authorized to sell foreign exchange to importers up to the basic allocation without reference to the Reserve Bank. The sum involved was estimated to be £60 million, as against £54 million for 1953. At the same time a further list of items was freed from import control. In November 1953 the basic allocation for 1954 was further increased from 50 per cent to 75 per cent.

After being suspended for two months "no-remittance" imports were again permitted in September 1952, but the provision permitting the transfer of private funds held overseas was withdrawn and the imports were to be for the personal use of the importer or his family.

Subsequent to November 1953 "no-remittance" import licences were granted only for the obtaining of goods by the use of overseas funds or securities which had been held for not less than one year. Since 1953 persons purchasing motor vehicles by means of "no-remittance" licences have been required to make a declaration to the effect that the vehicle will not be disposed of for two years.

In November 1953 a 50 per cent increase in motor-vehicle import licences during 1954 was announced. The basic licences previously announced for 1954 were slightly greater than for 1953, and with the addition of the 50 per cent increase it was estimated that about 35,000 cars and 5,000 other vehicles would be imported during 1954.

MOVEMENT OF SPECIE.—Although there is a fairly considerable production of gold bullion, there is no Mint in New Zealand. Uncoined gold, therefore, ranks as an ordinary export, along with wool, dairy produce, and other merchandise.

The following table shows exports and imports of specie stated at face value for each of the eleven years 1942-52.

Year	Specie Imported	Specie Exported		Excess of Specie Imports (+) or Exports (-)
		£	£	
1942	147,010	25,375		+ 121,635
1943	461,800	1,240		+ 460,560
1944	159,640	400		+ 159,240
1945	208,148	4,400		+ 203,748
1946	418,970	4,532		+ 414,438
1947	147,992	10,375		+ 137,617
1948	624,755	55,169		+ 569,586
1949	1,040,725	570,220		+ 470,505
1950	169,823	514,455		- 344,632
1951	250,108	280,130		- 30,022
1952	84,567	26,943		+ 57,624

GOVERNMENT CREDITS FOR FINANCING WOOL PURCHASES.—Financial agreements designed to facilitate the sale of New Zealand wool to France and Czechoslovakia were entered into by the New Zealand Government and the French and Czechoslovakian Governments—the former on 2 July 1947 and the latter on 22 January 1948.

The French agreement made available to France a credit up to £5,000,000 sterling for use in the purchase of New Zealand wool during the five years ending 30 June 1952. Other produce could also be brought under the agreement, if mutually agreed upon. Credit was made available to the Government of France to the value of one-half of the cost of wool purchased by French buyers, the remaining one-half being financed in the normal manner. At 31 March 1953 the total drawings on the account amounted to £1N.Z.5,018,749. The total advances are to be repaid not later than 31 December 1957, and interest at the rate of 2½ per cent per annum is payable.

The Czechoslovakian agreement made available to Czechoslovakia a credit up to £1,000,000 in New Zealand currency for use in the purchase of New Zealand wool during the four years ended 30 June 1951. Credit was made available to the Government of Czechoslovakia to the value of one-half of the cost of wool purchased by its buyers, with the proviso that the total credit drawn to 30 June 1948 was not to exceed £1N.Z.250,000, to 30 June 1949 £1N.Z.500,000, and to 30 June 1950 £1N.Z.750,000. The total drawings on the credit at 31 March 1953 were £1N.Z.999,864. The total advances are to be repaid not later than 30 June 1954, and interest at the rate of 2½ per cent per annum is payable.

INTERNATIONAL TRADE CONFERENCE.—The Economic and Social Council of the United Nations, by a resolution dated 18 February 1946, resolved to call an International Conference on Trade and Employment for the purpose of promoting the expansion of the production, exchange, and consumption of goods.

This Conference was ultimately held at Havana, Cuba, from 21 November 1947 until 24 March 1948, and a *résumé* of the main provisions of the Charter as finally drawn up at Havana is given on pages 210-212 of the 1947-49 issue of the Year-Book. This Charter has not, however, been ratified by any country.

At the second session of the Preparatory Committee (to prepare the ground for the International Conference) held in 1947 at Geneva, negotiations for a multilateral trade agreement embodying tariff concessions by the participating countries took place. Further concessions were agreed to in negotiations held in 1949 and 1950-53. The resulting concessions are contained in schedules to the General Agreement on Tariffs and Trade Act 1948 and amendments thereto. Details of this as it affects New Zealand are given in Section 10D, "Customs Tariff and Revenue," of this issue.

Further sessions of the Contracting Parties were held in Geneva in October-November 1952 and September-October 1953. The major subject considered was the accession of Japan to the Agreement. It was finally agreed that Japan be associated with the Agreement, but not as a Contracting Party. Some of the Parties agreed to apply the provisions of GATT to their trade relations with Japan. The 1953 session agreed to an extension of the terms of GATT for a further 18 months from 31 December 1953.

BULK PURCHASE OF PRIMARY PRODUCE BY UNITED KINGDOM GOVERNMENT.—The bulk purchase of New Zealand's primary produce by the United Kingdom Government originally commenced with the 1939-40 season's produce. It was a wartime measure whereby the United Kingdom Government became the sole purchaser of imported foodstuffs, and in New Zealand the Marketing Department became the authority for the bulk purchase and shipment of most of the produce concerned. The principal products which came within this bulk purchase plan were wool, butter, cheese, meat, tallow, and woolly sheepskins.

With the conclusion of the war, so ended the bulk purchase agreements for wool and sheepskins, the sale of these products returning to the open market. Dairy produce and meat contracts, however, were continued under the bulk purchase scheme as part of peacetime marketing, and in 1948 new agreements were signed in London extending these contracts up to 1955. A detailed account of these agreements will be found in Section 19.

10 B—EXPORTS

In New Zealand the Department of Her Majesty's Customs requires for every package exported a declared statement of the contents, value, and destination, the export statistics being compiled from the analysis and summation of these statements.

Exports are valued in New Zealand currency "free on board at the port of shipment," except re-exports ex bonded warehouse or under drawback of duty which are recorded at the original import values. Where goods are not sold till arrival at their destination values are assessed at current prices at time of shipment. Meat and dairy produce exports are valued like other commodities, on the basis of overseas realizations, not on the basis of the prices payable to producers under the internal purchasing procedures. Wool acquired under the wartime appraisal scheme and subsequently exported to be auctioned overseas was valued on export at appraisal prices, not ruling prices at the time of export. New Zealand currency was below parity with sterling from the beginning of 1930 to 19 August 1948, when it was again restored to parity. A table in the preceding subsection gives the values in sterling of total exports for the years 1942 to 1952.

The ultimate destination of the goods is distinguished as far as practicable, but it is impossible to discover what proportion of the exports is intended for home consumption in the country of destination. The trade records distinguish between exports of New Zealand produce and re-exports of imported goods.

CLASSIFICATION OF EXPORTS.—The table following gives merchandise exports (i.e., excluding specie) for the last eleven years by main commodity groups.

Year	Dairy Produce	Meat	Wool	Animal Fats	Hides, Skins, and Pelts	Total Merchandise Exports ^a	
						£	£
1942	29,528,000	20,514,000	18,337,000	1,172,000		4,765,000	81,285,000
1943	24,521,000	17,459,000	13,484,000	1,101,000		4,397,000	71,865,000
1944	26,619,000	14,353,000	12,711,000	657,000		4,520,000	77,787,000
1945	29,953,000	19,443,000	12,717,000	980,000		5,008,000	81,631,000
1946	29,621,000	26,235,000	26,593,000	1,111,000		5,743,000	101,302,000
1947	42,557,000	32,323,000	31,970,000	2,577,000		10,383,000	129,420,000
1948	47,844,000	32,156,000	44,505,000	3,226,000		9,473,000	147,821,000
1949	51,867,000	30,439,000	46,554,000	2,694,000		6,679,000	147,281,000
1950	54,612,000	32,302,000	74,653,000	2,299,000		9,996,000	183,752,000
1951	63,324,000	31,203,000	128,176,000	2,686,000		12,862,000	248,127,000
1952	79,856,000	50,445,000	81,998,000	4,907,000		9,949,000	240,561,000

^a Including other commodities, among them uncoined gold and silver.

The commodity groups shown, normally account for more than 90 per cent of the total value of merchandise exports. The proportion fell to only three-quarters during the Second World War as a result of (1) increases in the domestic exports and re-exports to the Armed Forces for other goods, especially ordnance supplies, (2) the accumulation of unshipped wool in New Zealand, and (3) the supply to the United States Forces in New Zealand of produce which would normally have been exported. In the post-war period the proportion returned to the pre-war figure, and in 1951 it exceeded 96 per cent, mainly on account of the extremely high prices ruling for wool.

These high prices, too, resulted in wool alone accounting for 52 per cent of the total value of merchandise exports in 1951, by far the highest proportion recorded since the development of the refrigerated export trade. The other two major commodity groups, dairy produce and meat, accounted for 26 and 13 per cent respectively of the total. In 1952 with the fall in wool prices the proportions were: wool 34, dairy produce 33, and meat 21. This distribution was more comparable with that which obtained in pre-war years.

New Zealand's reliance upon grassland farming for her exports is brought out by the figures in the next table showing exports of pastoral products and the percentage which they represent among total exports of New Zealand produce. The percentage supplied by this group was high in the late "nineties," but after 1898 fell relatively, owing mainly to increased exports of agricultural and mining products. From 1902 onwards, however, the percentage increased almost continuously, till in 1924 and 1925 it amounted to 94 per cent of the total. The percentage dropped noticeably in the depression years, owing to the relatively greater fall in prices of pastoral products, particularly wool, but recovered in subsequent years with the advent of improved prices. Shipping difficulties were mainly responsible for the decline recorded in the aggregate value of pastoral products exported in 1941, the stocks of a number of items held in New Zealand at the end of that year being heavier than normal, and this factor contributed to the high total for 1942. During the next three years considerable quantities of meat and dairy produce were supplied locally to the United States Forces, by way of reverse land-lease. The approximate value of this produce, which was not treated as an export, even when subsequently shipped to the United States Forces in the Pacific, was: 1943, £7,000,000; 1944, £10,000,000; 1945, £8,000,000. The withdrawal of this produce from export resulted in decreased quantities of most of the principal pastoral products being exported in 1943 and 1944, and this, together with the substantial increase in the export of manufactured articles, mainly to the Armed Forces, and increased agricultural exports (notably peas and seeds), caused the percentage of pastoral exports to fall to its lowest level since 1913.

From 1945 to 1952 the value of pastoral produce exported has risen enormously, reaching a total of £239,116,000 in 1951, an increase of 421 per cent as compared with the average of the three pre-war years 1937-39. The total value of pastoral produce exported in 1951 also represented a record percentage of 97.1 per cent of the total value of exports of New Zealand produce. This fell to 91.5 per cent in 1952, largely on account of the falling-off in the price of wool.

EXPORTS OF PASTORAL PRODUCTS

Year	Value	Percentage*
	£	%
1930	41,369,000	93.6
1931	32,115,000	93.6
1932	32,112,000	91.8
1933	37,111,000	91.8
1934	43,351,000	92.7
1935	42,647,000	92.6
1936	52,686,000	93.6
1937	62,549,000	94.5
1938	54,299,000	93.9
1939	53,744,000	93.6
1940	69,057,000	94.6
1941	62,238,000	93.0
1942	74,361,000	92.3
1943	61,029,000	86.9
1944	58,948,000	82.2
1945	68,112,000	87.0
1946	89,582,000	89.3
1947	120,342,000	94.2
1948	137,750,000	94.0
1949	138,702,000	95.0
1950	174,399,000	95.7
1951	239,116,000	97.1
1952	228,079,000	91.5

* Of total exports of New Zealand produce.

Of exports other than pastoral the principal ones of economic significance are: gold, of which there is a steady export from current production; frozen fish exported to Australia, supplemented now by the export of crayfish tails to the United States of America, and of fish-liver oils; timber, now mainly of exotic species, fresh apples, this trade having been resumed after a break during the war; peas, and grass and clover seeds, the latter having now risen to be the most important single export outside the pastoral group.

Quantity figures of exports of the principal items of New Zealand produce are next given for the years 1950 to 1952, while the Statistical Summary, towards the end of the book, shows the figures for some of the more important commodities from 1903 up to date. For some purposes, especially for comparisons between recent and more remote years, quantities are preferable to values, since the latter are affected by price-variations.

Commodity (New Zealand Produce)	1950	1951	1952
The mine—			
Coal (ton)	5,066	6,065	14,707
Pumice, sand and stone (ton)	1,329	1,238	791
Gold* (oz.)	110,486	68,929	66,616
Scheelite (cwt.)	580	780	980
Silver (oz.)	97,105	2,302	1,593
Cement (cwt.)	22,990	11,936	23,928
The fisheries—			
Fish (cwt.)	76,061	60,413	69,670
Fish and fish-liver oils (gal.)	19,733	21,811	12,208
Whale oil	120,907	173,050	151,960
The forest—			
Kauri gum (ton)	1,178	1,071	576
Timber, sawn and hewn (sup. ft.)	14,878,958	21,490,057	16,622,526
Pastoral products—			
Butter (cwt.)	2,749,540	2,942,666	3,670,334
Butterfat, dry (cwt.)	15,790	6,609	10,227
Casein (cwt.)	110,754	117,835	167,282
Cheese (cwt.)	1,997,801	2,132,372	1,825,105
Edible fats (cwt.)	190,965	198,056	301,777
Inedible fats (cwt.)	434,320	422,800	703,160
Hair not made up (cwt.)	825	445	408
Honey (lb.)	852,972	751,280	925,598
Live cattle and sheep (number)	547	513	902
Live horses (number)	305	266	310
Canned meats (cwt.)	107,667	151,935	312,248
Meat extract (lb.)	332,046	1,253,859	799,573
Frozen and chilled meats (cwt.)	6,761,677	5,496,023	7,711,215
Other preserved meat (cwt.)	14,053	18,251	20,291
Meat meal (cwt.)	34,372	36,379	44,321
Milk, dried and condensed (lb.)	91,015,251	104,637,883	140,519,662
Sugar of milk (lb.)	5,748,561	7,439,934	8,100,549
Inedible offals (lb.)	1,840,109	2,875,133	3,480,109
Neatsfoot oil (gal.)	146,400	59,316	75,085
Sausage casings (cwt.)	50,157	47,229	60,019
Cattle and horse hides (number)	368,737	343,440	547,224
Calf skins (number)	870,402	977,477	1,577,712
Deer skins (number)	65,982	103,194	66,409
Opossum skins (number)	503,123	921,888	229,057
Rabbit skins (number)	9,918,514	5,745,460	2,839,342
Sheep skins and pelts (number)	17,461,162	14,704,649	20,092,123
Wool (lb.)	393,973,500	316,863,280	438,107,606

* Ounces of the fineness of 20 carats and upwards.

Commodity (New Zealand Produce)	1950	1951	1952
---------------------------------	------	------	------

Commodity (New Zealand Produce)	1950	1951	1952
Agricultural products—			
Biscuits (cwt.)	3,068	4,608	3,201
Fresh apples (lb.)	38,594,576	27,920,765	54,589,760
Fresh pears (lb.)	8,076	23,080	678,870
Peas (cental)	494,613	302,918	379,565
Barley (cental)	99,163	5,662	89,486
Hops (lb.)	180	409,214	100,583
Oatmeal (lb.)	227,100	9,200	500
Onions (ton)	1,275	2,399	1,721
Potatoes (ton)	7,185	2,751	1,005
Pastes, alimentary cooked (canned) (lb.)	49,348	6,319	2,184
Canned vegetables (lb.)	2,622,715	2,300,095	3,748,968
Seeds (grass and clover) (cwt.)	164,114	88,428	163,452
Linon-flax fibre and tow (cwt.)	824	3,984	2,314
Phormium fibre and tow (cwt.)	787	64	
Miscellaneous—			
Ale, stout, and cider (gal.)	228,273	232,782	256,737
Cocoa (lb.)	250,159	26,276	7,756
Tobacco, manufactured (lb.)	65,690	78,264	125,935
Sugar, refined (cwt.)	8,999	6,955	8,988
Metals, scrap (not precious) (cwt.)	83,767	192,164	278,910
Clothes pegs and pins (gross)	76,184	59,946	23,168
Soap and soap powder (lb.)	1,771,960	2,784,878	1,340,999
Building board (sq. ft.)	3,020,658	2,872,933	3,328,668

The values of the principal exports are given in the following table.

Commodity (New Zealand Produce)	1950	1951	1952
	£	£	£
The mine—			
Coal	18,445	24,432	58,541
Pumice, sand and stone	9,187	10,654	8,131
Gold	1,296,610	843,792	798,956
Scheelite	13,539	64,318	77,813
Silver	25,895	680	497
Cement	9,173	5,603	15,099
The fisheries—			
Fish	617,038	692,205	902,516
Fish and fish-liver oils	124,617	58,939	58,515
Whale oil	34,472	48,049	42,550
The forest—			
Kauri gum	125,893	132,126	81,517
Timber, sawn and hewn	371,557	733,207	593,267
Pastoral products—			
Butter	35,566,993	41,361,934	55,929,348
Butterfat, dry	306,381	127,665	215,846
Casein	657,090	955,683	1,316,973
Cheese	14,535,757	16,650,131	15,527,233
Edible fats	780,370	1,209,971	1,629,264
Inedible fats	1,518,623	1,475,544	3,277,942
Malted milk	43,905	52,533	49,556
Hair not made up	15,596	19,292	14,322
Honey	41,958	34,994	43,412
Live cattle and sheep	31,492	49,249	49,200
Live horses	114,125	155,960	181,218
Canned meats	884,785	1,697,570	4,756,552
Meat extract	29,943	166,261	119,117
Frozen and chilled meats	28,629,106	25,393,538	40,474,955
Other preserved meat	97,006	142,163	195,643
Meat meal	90,067	95,172	136,112
Milk, dried and condensed	3,321,883	3,952,028	6,563,941
Sugar of milk	223,409	276,886	302,219
Inedible offals	130,549	244,439	368,014
Neatsfoot oil	44,621	34,057	32,691
Sausage casings	2,660,834	3,902,557	4,898,695
Cattle and horse hides	1,623,430	1,943,105	1,968,494
Calf skins	994,803	1,081,528	1,333,396
Deer skins	73,176	245,971	92,995
Opossum skins	200,822	323,546	58,021
Rabbit skins	346,865	203,252	63,360
Sheep skins and pelts	6,736,162	9,033,299	6,815,907
Wool	74,853,007	128,176,051	81,998,141
Agricultural products—			
Biscuits	15,126	25,982	20,560
Fresh apples	678,992	690,888	2,034,597
Fresh pears	251	829	25,492
Peas	873,953	572,655	996,901
Barley	88,961	4,949	109,469
Hops	39	80,137	22,769
Oatmeal	4,419	238	19
Onions	31,618	134,612	56,131

* Including items not enumerated.

Commodity (New Zealand Produce)	1950	1951	1952
Potatoes	112,431	56,039	36,555
Pastes, alimentary cooked (canned)	2,067	343	137
Canned vegetables	121,017	107,543	206,385
Seeds (grass and clover)	2,083,630	1,246,014	2,106,627
Seeds (various)	73,329	69,732	321,366
Linon-flax fibre and tow	3,088	49,727	27,565
Phormium fibre and tow	3,379	285	
Miscellaneous—			
Ale, stout, and cider	51,428	56,172	65,550
Cocoa	19,513	3,359	1,323
Tobacco, manufactured	17,668	21,449	33,740
Dairying machinery	60,003	80,803	62,122
Fire-fighting appliances	4,299	425	2,042
Electrical apparatus	35,096	53,239	37,022
Manures	20,685	11,143	73,521
Sugar, refined	21,629	19,114	28,008
Metals, scrap (not precious)	23,223	96,915	164,552
Apparel and ready-made clothing	4,747	15,817	6,930
Leather	10,635	44,419	42,199
Soap and soap powder	65,617	97,826	54,783
Soup and soup powder	21,245	52,600	37,526
Ordnance stores	356	695	1,536
Books, papers, etc., printed	28,893	27,760	42,281
Building board	51,653	58,659	69,454
China ware and earthenware	25,656	29,216	6,990
Clothes pegs and pins	18,282	15,690	6,449
Fancy goods and toys	11,601	6,630	1,907
Vitamins and vitamin concentrates	9,836	69,868	65,485
Totals, New Zealand produce*	182,332,151	246,394,217	238,418,724

* Including items not enumerated.

DESTINATION OF NEW ZEALAND EXPORTS.—The first exports from New Zealand went naturally to the earlier-developed sister colony, and for a considerable time Australia had a monopoly of our trade. In 1865, 70 per cent, and even in 1871, 44 per cent, of the total exports went to Australia. But since the establishment of direct shipping liner, the United Kingdom has absorbed the bulk of New Zealand exports, the proportion going to that country being usually in excess of 70 per cent and often exceeding 80 per cent of the total merchandise exports. The proportion is markedly affected by relative movements between the prices of (1) dairy produce and meat, most of which are sold to the United Kingdom, and (2) wool, hides, and skins, which are exported in much greater proportions to other countries. The prices of the former are generally less variable than those of the latter, resulting in a greater stability in the value of exports to the United Kingdom than to other countries. Hence, when the prices of wool, hides, and skins are relatively low the proportion of exports going to the United Kingdom is high; it reached 88 per cent in 1932. Conversely, when the prices of wool, etc., are relatively high the proportion of exports going to the United Kingdom is low. In 1951 the extremely high wool prices ruling resulted in the proportion falling to 58 per cent, easily the lowest figure recorded since the United Kingdom supplanted Australia as the principal export market about 1870.

The same cause operated to reduce the proportion of exports going to British Commonwealth countries in 1951 to only 65 per cent, easily the lowest figure on record. This rose in 1952 to 72 per cent.

The principal destinations of New Zealand's exports of merchandise (including re-exports) during the last twenty years are given in the table below. The nomenclature used in this and subsequent tables in regard to the countries of destination refers generally to status and territories in the years indicated and not necessarily to the present position.

Year	United Kingdom	Canada	Australia	France	Germany	United States of America	Other Countries	Total Merchandise Exports
	£	£	£	£	£	£	£	£
1933	35,275,909	560,875	1,393,311	738,176	376,886	1,188,972	1,471,790	41,005,919
1934	38,629,240	697,865	1,882,516	1,228,699	944,310	1,250,364	2,709,853	47,342,847
1935	38,921,568	656,984	1,781,811	484,610	165,304	2,468,066	2,060,038	46,538,381
1936	45,492,989	1,103,008	1,843,475	1,646,168	272,481	2,877,752	3,516,067	56,751,940
1937	50,705,591	1,678,403	1,824,183	1,014,941	919,148	4,784,099	5,787,014	66,713,379
1938	48,897,990	1,127,124	2,189,454	1,015,456	890,976	1,421,630	2,833,653	58,376,283
1939	46,689,198	953,710	2,258,007	1,579,176	390,006	2,847,158	3,334,061	58,049,315
1940	64,129,106	1,709,169	2,159,339			2,825,898	2,200,869	73,741,133
1941	52,395,538	2,823,334	2,400,266			5,190,613	4,670,662	67,475,413
1942	60,471,098	3,616,646	2,717,619			5,990,667	8,489,207	81,284,637
1943	46,367,940	4,535,207	2,849,125			6,385,402	11,724,924	71,862,398
1944	55,426,533	1,939,814	3,092,981			5,062,608	12,265,010	77,736,946
1945	58,643,411	2,250,862	4,195,247	46,965		7,984,696	8,510,095	81,632,276
1946	70,923,772	2,803,282	3,630,750	3,465,375	1,639,129	9,715,751	9,124,207	101,302,266
1947	98,698,479	3,059,660	4,096,064	4,447,174	78,294	8,174,452	10,865,524	129,419,647
1948	107,915,266	2,990,814	3,954,416	8,308,189	2,724,834	7,272,632	14,654,874	147,820,025
1949	107,706,305	2,196,352	3,747,746	7,657,899	2,993,503	5,491,546	17,487,600	148,281,951
1950	121,684,950	3,556,916	4,779,368	8,076,593	5,940,239	18,387,899	21,326,836	183,752,291
1951	142,362,169	8,564,989	5,112,874	17,853,958	8,836,332	28,859,044	6,537,806	248,127,172
1952	156,485,253	5,212,478	3,930,237	10,558,649	5,227,023	27,267,434	31,879,630	240,560,704

* Including ships' stores.

The statistics quoted in the foregoing table indicate the destination of New Zealand exports as recorded by the Customs Department. In some instances the ultimate destination of exports is not known at the time of export, such goods being entered as exported to the country to which they are being shipped. This consideration applies more particularly to wool, considerable quantities of which are shipped to the United Kingdom, and, in normal times, subsequently re-exported to the Continent. It should be observed, however, that in all instances where the final destination is known at the time of export the exports are credited to that destination in the New Zealand trade statistics. It is possible, of course, that the destination of goods may be changed while in transit; and this, in fact, happens occasionally in the case of wool. In such cases the actual destination will be different from that to which the goods have been credited in the statistics; however it is quite impossible to keep a record of all movements of this nature.

A further point of some importance is the fact that an appreciable quantity of wool is exported on an "optional" basis—United Kingdom, option Continent. In these cases, however, subsequent information is received by the Customs Department as to the actual destination of the goods, and the entries are amended.

It will be realized from the considerations outlined above that the actual final destinations of New Zealand exports may vary appreciably from the classification shown in the table. For these reasons it is probable that our exports to Continental countries are normally somewhat higher than the figures indicate; conversely, our exports to the United Kingdom for retention in that country are lower than the totals quoted in the table.

The table which follows shows for each of eleven years the percentage of total exports (excluding specie and ships' stores), taken by each of the principal countries trading with New Zealand.

Country	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
United Kingdom	74.97	64.88	71.75	72.28	70.35	76.66	73.30	73.38	66.44	57.57	65.33
Republic of India							0.60	0.42	0.39	0.63	
Pakistan	1.28	3.59	5.27	3.62	3.07	0.38	0.54	0.05	0.11	0.06	0.08
Canada	4.48	6.35	2.51	2.77	2.78	2.38	2.03	1.50	1.94	3.50	2.18

Country	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
Australia	3.37	3.99	4.00	5.17	3.60	3.18	2.69	2.56	2.61	2.07	1.64
Other British Commonwealth countries	0.98	1.54	1.36	1.73	2.01	1.56	1.34	1.34	1.19	1.38	2.19
Totals, British Commonwealth countries	85.08	80.35	84.89	85.57	81.81	84.16	79.90	79.43	72.71	64.97	72.05
Netherlands				0.01	0.49	1.33	1.94	1.66	1.87	1.32	0.85
Belgium				0.47	1.55	1.02	1.24	1.61	2.12	1.25	
France				0.06	3.44	3.45	5.64	5.22	4.41	7.22	4.41
Germany					1.63	0.06	1.85	2.04	3.24	3.57	2.18
Italy			1.15	0.76	0.29	0.52	0.51	0.98	1.04	1.56	1.82
Poland				0.05	0.01	0.06	0.14	0.82	0.85	2.96	1.24
Russia (U.S.S.R.)	2.43	1.28			0.01	0.39	1.73	1.98	0.56	0.50	
Egypt	4.47	8.90	6.84	2.96	0.41	0.16	0.14	0.17	0.08	0.14	0.06
Japan						0.04	0.03	0.53	0.54	1.55	1.46
United States of America	7.43	8.93	6.55	9.84	9.64	6.35	4.94	3.75	10.04	11.67	11.38
Remaining countries	0.59	0.54	0.57	0.75	1.80	1.93	2.16	2.18	3.05	2.42	3.30
Totals, other countries	14.92	19.65	15.11	14.43	18.19	15.84	20.10	20.57	27.29	35.03	27.95

Exports to Each Country, 1950-1952.—The table following shows the exports (including re-exports, but excluding specie) according to the countries of destination. Reference should be made to remarks made earlier regarding re-exports of New Zealand produce from the United Kingdom.

Country	1950	1951	1952
<i>British Commonwealth Countries, Protected States, and Trust Territories</i>			
Europe—	£	£	£
United Kingdom	121,684,950	142,362,169	156,485,253
Gibraltar		404	
Malta	5,614	26,256	218
Totals	121,690,564	142,388,829	156,485,471
Asia			
British Borneo	5,519	748	2,497
Ceylon	1,438	21,192	18,045
Hong Kong	94,811	271,076	67,943
Republic of India	763,375	963,421	1,503,994
Pakistan	202,384	148,053	197,678
Malaya and Singapore	343,004	321,285	428,965
Other	4,345	7,215	1,930
Totals	1,414,876	1,732,990	2,221,052
Africa—	£	£	£
British West Africa	23,667	77,940	142,065
Kenya and Uganda	2,282	11,626	15,516
Northern Rhodesia	3,804	5,719	131,672
Southern Rhodesia	10,904	8,324	340,314
Union of South Africa	289,742	268,725	557,847
Other	3,371	10,179	4,456
Totals	333,770	382,513	1,191,870
America—			
Bermuda	1,362	41,577	192,545
British Guiana	30,509	43,040	158,701
British Honduras	2,081	13,179	7,817
British West Indies	563,027	715,627	1,531,868
Canada	3,556,916	8,564,989	5,212,478
Falkland Islands	2,002	506	118
Totals	4,155,897	9,378,918	7,103,527
Pacific—			
Australia	4,779,368	5,112,874	3,930,237
Fiji	293,874	778,027	839,005
Gilbert and Ellice Islands	50,159	86,462	72,083
Nauru Island	34,016	42,989	40,519
Norfolk Island	23,460	27,914	39,485
Papua	22,611	6,886	2,944
Pitcairn Island	1,716	1,979	1,011
Solomon Islands	15,567	19,602	18,781
Tonga	114,653	212,853	239,398
Western Samoa	239,908	481,207	395,180
Totals	5,575,332	6,770,793	5,578,643
Totals, British Commonwealth countries, etc.	133,170,439	160,654,043	172,580,563
<i>Other Countries</i>			
Europe—			
Austria	183,586	95,910	34,583
Belgium	2,952,099	5,239,179	2,983,287
Bulgaria	3	3	3
Czechoslovakia	1,004,270	763,699	604,292
Denmark	900,291	1,157,146	642,368
Finland	36,518	322,162	49,484
France	8,076,593	17,853,958	10,558,649
Greece	451,507	253,693	380,059
Italy	1,900,362	3,847,487	4,362,418
Netherlands	3,419,220	3,261,869	2,036,368
Norway	283,895	227,920	40,790
Poland	1,563,578	7,312,145	2,960,692
Portugal		13,729	21,938
Republic of Ireland	185,275	95,559	3,367,346

Country	1950		1951		1952	
	Quantity	Value	Quantity	Value	Quantity	Value
Russia (U.S.S.R.)		1,034,587		1,246,911		
Spain		827		6		9
Sweden		394,593		672,908		486,492
Switzerland		77,428		128,277		56,447
West German Federal Republic		5,939,445		8,835,595		5,227,023
Yugoslavia		585,706		312,242		55,086
Other		3,270		1,044		4,621
Totals		28,993,053		51,641,442		33,871,949
Asia—		£		£		£
Burma		26,944		103,391		73,071
China		132		160		
Iran		127,470				
Iraq		1,480		7,711		3,650
Israel		769		1,506		851
Japan		996,828		3,844,738		3,505,334
Korea				50,416		
Kuwait, Muscat, and Oman		11		2,553		6,923
Lebanon		14,319		20,227		23,558
Philippines		60,851		105,037		183,397
Saudi Arabia		62,316		81,789		116,870
Thailand		62,062		45,934		1,142
Syria		16,162				
Turkey		37,360		47,429		44,371
Other		4,677		2,915		6,280
Totals		1,411,381		4,313,806		3,965,447
Africa—						
Algeria		1		21,319		40,184
Belgian Congo		4,119		1,010		113,836
Egypt		153,117		353,120		136,418
French Morocco		2		12,522		13,998
Libya		602		12,918		434
Portuguese East Africa		168		6,972		10,438
Other		1,482		1,355		777
Totals		159,491		409,216		316,085
America—						
Chile				9,817		1,079
Cuba						14,807
Mexico		363,303		295,059		267,005
Netherlands Antilles		208,614		175,235		322,195
Panama Republic		150,433		305,814		202,961
Panama Canal Zone		29,446		113,930		59,228
United States of America		18,387,389		28,859,044		27,267,434
Uruguay		3,961		27,282		342
Venezuela		19,226				2,590
Other		8,304		6,247		29,324
Totals		19,170,676		29,792,428		28,166,965
Pacific—						
Hawaii		12,325		21,216		145,468
New Caledonia		327		3,945		21,768
New Hebrides		7,332		27,204		16,333
Society Islands		103,261		275,343		306,007
Tuamotu Archipelago		49,613		11,369		17,575
Tutula		69,745		134,577		131,809
Other						7
Totals		242,603		473,654		638,967
Totals, other countries		49,977,204		86,630,546		66,959,413
Ships' stores		604,648		842,583		1,020,728

Destination of Main Exports.—The table which follows shows quantities and values of the principal exports of New Zealand produce sent to various destinations during the years 1951 and 1952.

Country to Which Exported	1951		1952	
	Quantity	Value	Quantity	Value
	Wool			
	lb.	£	lb.	£
United Kingdom	131,539,731	52,128,848	199,864,875	37,295,201
Union of South Africa	406,220	192,774	1,810,250	413,537
India	985,003	407,144	1,229,921	405,015
Canada	11,528,863	5,878,321	11,662,248	2,334,563
Australia	3,799,733	1,121,042	2,510,820	439,465
Republic of Ireland	61,104	13,057	138,596	27,005
Austria	24,978	16,930	30,856	5,032
Belgium	14,794,585	4,821,711	15,179,284	2,554,857
Norway	280,007	167,903	163,607	40,652
Denmark	1,702,990	1,061,886	1,584,963	404,338
Finland	194,191	146,015	173,657	42,668
Russia (U.S.S.R.)	2,835,228	1,246,909		
Poland	15,692,991	7,255,190	12,290,479	2,890,146
Portugal	49,771	13,727	52,934	10,966
West German Federal Republic	19,407,069	7,784,369	14,092,392	2,833,132
Netherlands	5,675,356	2,231,958	5,958,809	1,078,471
France	43,384,399	15,670,588	53,978,874	9,173,434

Country to Which Exported	1951		1952	
	Quantity	Value	Quantity	Value
Sweden	1,176,216	506,478	1,114,214	308,015
Switzerland	218,736	96,356	157,812	35,450
Italy	6,861,465	2,751,805	16,055,583	2,965,056
Czechoslovakia	1,551,073	763,551	4,186,971	602,653
Yugoslavia	560,226	309,179	254,521	53,507
Greece	513,764	252,461	1,293,851	359,734
Turkey	67,800	26,410	31,688	8,893
Algeria	118,078	21,313	218,655	40,176
Egypt	172,088	65,409	176,507	42,310
Japan	6,459,383	3,399,900	4,853,490	1,042,563
Mexico	1,103,742	295,048	1,739,905	266,607
United States of America	45,656,591	19,520,951	87,220,185	16,309,346
Other countries	41,399	8,818	81,659	15,349
Totals	316,863,280	128,176,051	438,107,606	81,998,141
	<i>Frozen and Chilled Meat</i>			
	Cwt.	£	Cwt.	£
United Kingdom	5,335,248	24,682,764	7,052,914	37,128,047
Hong Kong	31,165	111,559	3,076	26,839
British West Africa	4,462	26,230	7,542	46,276
Union of South Africa	8,402	22,205		
Bermuda	413	2,395	7,387	63,292
British West Indies	21,772	101,708	66,758	454,483
Canada	14,465	43,954	12,829	32,339
Fiji	17,213	70,784	15,971	95,445
Tonga	2,513	10,957	2,201	13,511
Western Samoa	2,382	13,501	4,087	23,781
West German Federal Republic	22,418	86,811		
Saudi Arabia	3,353	32,081	4,178	69,176
Netherlands Antilles	19,830	118,155	24,789	190,072
United States of America	4,537	19,177	493,007	2,208,870
Hawaii	616	7,548	2,030	26,563
Tutula	2,769	17,741	3,674	27,811
Other countries	3,965	25,968	10,776	68,450
Total	5,496,023	25,393,538	7,711,215	40,474,955
	<i>Canned Meat</i>			
	Cwt.	£	Cwt.	£
United Kingdom	61,546	811,249	248,407	3,901,028
British West Africa	841	12,083	149	2,259
British Guiana	1,653	16,826	2,227	28,612
British West Indies	12,540	134,419	18,287	243,611
Fiji	18,917	191,542	11,338	156,513
Tonga	6,737	62,685	7,361	91,278
Gilbert and Ellice Islands	3,626	31,613	2,205	28,120
Western Samoa	14,168	127,578	5,716	71,796
New Hebrides	2,639	25,534	976	12,959
Society Islands	17,375	167,580	8,005	116,303
Tutula	8,083	72,239	4,177	51,070
Other countries	4,035	45,141	3,400	53,003
Totals	152,160	1,698,489	312,248	4,756,552
	<i>Butter</i>			
	Cwt.	£	Cwt.	£
United Kingdom	2,742,088	37,953,588	3,175,386	47,388,848
Hong Kong	5,191	87,787	1,349	23,139
India	3,329	50,711	5,801	101,653
Pakistan	966	16,300	964	19,822
Malaya and Singapore	1,554	21,874	3,921	67,466
British West Africa	2,483	36,879	4,529	83,152
Northern Rhodesia			5,999	100,582
Southern Rhodesia			14,970	251,899
Union of South Africa			4,948	79,136
British Guiana	210	3,301	2,990	54,302
Bermuda	2,000	29,300	6,300	99,233
British West Indies	15,644	226,136	25,746	439,725
Canada	17,044	253,945	35,703	719,310
Australia	101	1,694	2,194	36,709
Fiji	1,352	21,420	409	7,125
Western Samoa	1,610	16,978	1,580	15,241
Republic of Ireland			200,000	3,239,219
France	60,130	1,107,422	20,130	362,549
West German Federal Republic	44,328	746,112	65,600	1,212,835
Italy	13,000	233,585	39,200	678,974
Japan	1,947	31,219	10,505	177,266
Philippines	4,807	75,679	8,349	142,394
Saudi Arabia	565	11,697	800	15,539
Belgian Congo	51	994	6,475	113,807
Netherlands Antilles	3,010	45,043	6,319	115,003
Panama Canal Zone	5,748	110,127	2,875	55,556
Panama Republic	11,328	215,843	10,137	193,793
Society Islands	1,353	25,264	1,759	37,088

Country to Which Exported	1951		1952	
	Quantity	Value	Quantity	Value
Other countries	2,467	39,036	5,396	97,983
Totals	2,942,666	41,361,934	3,670,334	55,929,348
<i>Cheese</i>				
	Cwt.	£	Cwt.	£
United Kingdom	1,924,079	14,886,425	1,640,448	13,567,473
British Guiana	2,124	17,777	4,426	42,655
Southern Rhodesia	591	4,376	8,502	82,555
British West Indies	12,054	114,033	23,119	250,026
Canada	60,879	485,621	44,560	454,017
Belgium	6,892	63,202	16,861	162,189
Norway	2,004	20,534		
West German Federal Republic	11,280	128,363	29,426	282,578
Italy	1,361	11,097	10,638	109,890
Japan	404	4,683	3,418	35,818
Egypt	2,597	24,943	1,848	23,416
United States of America	103,993	848,113	29,848	391,318
Other countries	4,114	40,964	12,011	125,298
Totals	2,132,372	16,650,131	1,825,105	15,527,233
<i>Milk (Dried, Condensed, etc.)</i>				
	lb.	£	lb.	£
United Kingdom	69,007,192	2,477,401	88,822,526	3,689,995
Malta	576,000	20,009		
India	8,256,662	333,908	12,265,804	639,919
Pakistan	787,800	32,289	384,445	22,207
Malaya and Singapore	5,328,240	240,973	4,893,762	253,711
Hong Kong	676,832	25,425	79,360	3,017
British West Indies	1,320,530	55,841	1,025,820	52,512
Canada	3,068,320	111,053	2,103,086	122,022
Australia	568,360	26,887	639,074	29,426
Fiji	624,253	35,299	406,251	27,606
Western Samoa	213,740	11,405	134,590	9,521
Belgium	626,240	20,218	22,700	1,368
Japan	77,760	3,199	9,120,664	518,730
Korea	329,280	21,288		
Lebanon	418,278	15,586	115,260	6,147
Saudi Arabia	658,288	38,011	491,322	32,155
Thailand	1,206,000	44,264	9,000	1,142
Burma	2,270,400	90,976	1,090,416	50,922
Egypt	1,881,680	76,786	1,221,680	54,777
Libya	302,304	11,860	7,200	308
Panama Republic	1,953,774	86,882	80,824	3,067
United States of America	2,456,478	87,486	14,612,285	874,710
Hawaii	24	3	473,728	22,469
Society Islands	743,593	33,198	1,128,909	75,585
Other countries	1,275,855	31,781	1,390,956	72,625
Totals	104,637,883	3,952,028	140,519,662	6,563,941
<i>Edible Fats</i>				
	Cwt.	£	Cwt.	£
United Kingdom	22,943	99,726	244,776	1,275,981
India	13,816	93,631	31,568	202,114
Pakistan	2,440	15,948	3,826	23,902
Fiji	3,809	23,028	3,821	29,549
Western Samoa	2,022	11,819	1,908	14,388
France	7,807	42,813	960	6,077
Finland	3,569	85,350		
West German Federal Republic	2,302	12,450		
Italy	32,881	253,818	2,511	13,357
Netherlands	60,296	344,650	7,470	32,944
Sweden	4,346	23,363		
Japan	3,586	23,047		
Egypt	24,954	176,552	2,896	14,587
Other countries	13,285	23,776	2,041	16,365
Totals	198,055	1,209,971	301,777	1,629,264
<i>Inedible Fats</i>				
	Ton	£	Ton	£
United Kingdom	20,371	1,408,528	34,842	3,255,169
Fiji	209	16,260	98	9,384
Japan	300	30,000	25	1,813
Other countries	260	20,756	193	11,576
Totals	21,140	1,475,544	35,158	3,277,942
<i>Cattle Hides</i>				
	Number	£	Number	£
United Kingdom	104,989	621,944	49,001	208,372
Canada	9,400	49,780	5,200	12,564
Australia	29,155	144,612	13,529	40,328
Sweden	9,250	70,301	2,032	9,939
Finland	10,629	63,977		
Poland	8,470	56,353	13,348	69,900
West German Federal Republic	4,768	26,447	36,858	126,821

Country to Which Exported	1951		1952	
	Quantity	Value	Quantity	Value
Netherlands	59,109	319,021	24,232	76,863
Norway	6,722	39,340		
France	32,211	148,914	18,768	58,448
Italy	6,523	25,189	50,889	135,352
Austria	11,423	76,374	7,875	28,281
Japan	23,412	171,910	293,661	1,087,479
Turkey	3,585	19,990	8,419	35,478
United States of America	12,790	58,432	2,040	8,573
Other countries	3,530	17,686	7,490	26,214
Totals	335,966	1,910,270	533,342	1,924,612
<i>Calf Skins</i>				
	Number	£	Number	£
United Kingdom	164,228	159,290	366,563	310,824
Canada	11,332	15,920	19,990	15,814
Australia	23,952	21,707	24,295	19,282
Belgium	17,510	21,307	33,524	28,702
West German Federal Republic	8,750	8,750	227,126	190,693
Greece			20,307	19,599
Netherlands	131,345	138,917	310,161	260,427
Italy	451,483	561,746	396,454	335,767
United States of America	160,462	144,983	154,736	131,488
Other countries	8,415	8,908	24,556	20,800
Totals	977,477	1,081,528	1,577,712	1,333,396
<i>Rabbit Skins</i>				
	Number	£	Number	£
United Kingdom	2,526,790	90,403	1,897,296	32,249
United States of America	2,869,455	102,060	684,986	16,510
Other countries	349,215	10,769	257,060	14,601
Totals	5,745,460	203,232	2,839,342	63,360
<i>Sheep Skins (With Wool)</i>				
	Number	£	Number	£
United Kingdom	163,894	319,315	182,861	179,453
France	539,913	823,480	854,949	676,608
West German Federal Republic			33,451	18,364
Japan	6,508	28,505		
United States of America	2,943	6,070	19,977	14,338
Other countries	5,839	4,746	8,564	7,542
Totals	719,097	1,182,116	1,099,802	896,305
<i>Sheep Skins (Without Wool)</i>				
	Number	£	Number	£
United Kingdom	3,264,440	2,096,819	2,849,714	922,064
Canada	150,330	72,434	37,112	9,157
Australia	95,743	39,931	69,671	15,268
Belgium	226,459	197,152	351,396	137,520
France	1,200	500	199,657	74,957
West German Federal Republic	6,600	4,762	1,010,342	319,269
Italy			62,496	19,534
Netherlands	108,037	71,567	999,582	366,066
Sweden	30,048	14,398	38,784	11,390
United States of America	10,090,057	5,348,619	13,371,899	3,643,833
Other countries	12,638	5,001	1,668	544
Totals	13,985,552	7,851,183	18,992,321	5,519,602
<i>Sausage Casings</i>				
	lb.	£	lb.	£
United Kingdom	1,498,111	952,819	2,340,262	1,513,484
Canada	1,487,318	1,552,828	1,321,672	1,316,304
Australia	261,935	29,702	295,025	21,964
Denmark	82,954	74,129	213,585	187,910
Republic of Ireland	26,856	28,839	31,336	32,964
Netherlands	47,605	44,807	33,997	35,417
Sweden	45,777	37,157	141,935	144,708
United States of America	1,834,545	1,167,882	2,324,609	1,627,654
Other countries	4,586	4,294	19,755	18,070
Totals	5,289,687	3,902,557	6,722,176	4,898,695
<i>Peas (Unprepared)</i>				
	Cental	£	Cental	£
United Kingdom	198,418	382,654	291,864	732,758
India	7,287	10,089		
Australia	64,931	126,545	66,742	214,478
Belgium	3,539	6,107	6,768	13,515
Korea	11,011	15,188		
United States of America	12,101	20,358	4,972	13,080
Other countries	5,631	11,714	9,019	23,070
Totals	302,918	572,655	379,365	996,901
<i>Apples (Fresh)</i>				
	lb.	£	lb.	£
United Kingdom	27,473,560	678,338	47,754,920	1,814,992
Malaya	128,000	3,600	725,440	25,654
Canada			999,560	37,483

Country to Which Exported	1951		1952	
	Quantity	Value	Quantity	Value
West German Federal Republic		3,550,000		99,927
United States of America		1,062,240		39,834
Other countries	319,205	8,950	497,600	16,707
Totals	27,920,765	690,888	54,589,760	2,034,597
<i>Seeds (Grass and Clover)</i>				
	Cwt.	£	Cwt.	£
United Kingdom	32,170	445,178	61,097	843,493
Canada	2,295	48,761	5,639	92,635
Australia	33,190	345,060	27,665	201,895
Republic of Ireland	1,002	14,902	4,078	44,241
Belgium	1,300	19,117	3,352	33,799
France	622	9,560	2,075	28,727
West German Federal Republic	45	557	4,254	49,228
Netherlands	2,698	44,731	4,382	64,733
Japan	450	6,732	5,688	50,315
United States of America	14,018	295,240	41,752	646,870
Other countries	638	16,176	3,470	50,691
Totals	88,428	1,246,014	163,452	2,106,627
<i>Timber (Sawn and Hewn)</i>				
	Sup. ft.	£	Sup. ft.	£
Australia	20,225,229	685,874	15,878,562	560,906
Tonga	294,798	10,704	204,754	8,381
Western Samoa	828,742	32,390	406,260	18,061
Other countries	141,288	4,239	132,950	5,919
Totals	21,490,057	733,207	16,622,526	593,267

EXPORTS BY PORTS.—From 1914 to 1921 the Customs Department allocated exports, as far as possible, to the appropriate district of production, whether exported through the port for such district or not, and no complementary figures are available to show the export trade from each individual port for this period.

The system, however, did not prove satisfactory in practice, and the method of recording exports according to the port at which the goods are placed on board the vessel by which they leave New Zealand was reverted to from 1 January 1922.

The following table shows for the years 1948-52 the value of total exports according to the port at which they were actually placed on board the overseas vessels.

While, in the case of imports, goods received through parcels-post are allocated according to ports of entry, similar treatment is not possible in the case of exports. The total of goods exported by parcels-post is accordingly shown under the heading "Parcels-post."

Port	1948		1949		1950		1951		1952	
	£	£	£	£	£	£	£	£	£	£
Auckland	51,675,023	52,583,295	56,018,424	72,454,123	92,278,868					
Tauranga	23,710	163,229	126,852	327,129	143,486					
Gisborne		125	639	84,794	1,042,370					
Napier	14,710,829	14,766,172	20,710,860	31,026,815	24,743,189					
New Plymouth	8,089,934	8,622,736	10,600,710	12,566,658	11,043,663					
Patea	35									
Wanganui	14	162	342	5,814	4,311					
Wellington	32,367,095	30,522,005	43,346,153	50,818,191	47,042,853					
Wairau (including Pictou)		32,237	14,310	73,354						
Nelson		785	7	706,148	1,027,546					
Westport		7,780		19,071	53,817					
Greymouth	287,164	52,303	58,950		137,153					
Hokitika	27,332				180					
Lyttelton	15,339,183	13,531,015	16,407,320	22,760,919	24,437,986					
Timaru	5,405,249	5,767,098	8,509,571	16,521,617	9,297,805					
Oamaru	42		2,055		3,363					
Dunedin	8,930,368	8,969,211	13,189,461	18,782,119	12,571,286					
Invercargill	10,252,797	11,986,428	14,597,940	21,791,577	16,558,020					
Parcels-post	712,249	276,370	168,687	188,843	174,808					
Totals	147,821,025	147,280,951	183,752,291	248,127,172	240,560,704					

Auckland occupies a commanding position in the export trade of New Zealand, usually one-third of the value of all exports being contributed by that port. Wellington occupies second place with approximately one-fifth, followed by Napier and Lyttelton with approximately 10 per cent each. Invercargill 7 per cent, and Dunedin and New Plymouth with 5 per cent each.

EXPORTS FOR YEARS ENDED 30 JUNE.—As indicated elsewhere in this section (page 277), farm products account for an extremely high proportion of exports from New Zealand. The farm-production export season fits much more closely to a June year than to a calendar year. The flush of the dairy-production season is spread over the months of October to March, while the whole harvest season, and most of the wool-selling season, occur in the early months of the calendar year. By 30 June in normal times the great bulk of the season's farm produce destined for export is shipped, except held-over wool and a certain amount of dairy produce and frozen meat kept in cool store to equalize shipments. It is desirable, therefore, for some purposes to tabulate New Zealand exports for years ending in June instead of December, a desideratum which, it may be observed, applies to most countries in the Southern Hemisphere.

EXPORTS OF NEW ZEALAND PRODUCE (QUANTITIES) FOR YEARS ENDED 30 JUNE.

Commodity	1950-51	1951-52	1952-53
Butter (cwt.)	2,729,394	3,085,725	3,545,598
Butterfat, dry (cwt.)	2,131	7,813	9,490
Casein (cwt.)	101,682	137,202	177,903
Cheese (cwt.)	1,921,445	2,013,937	1,868,935
Fish (cwt.)	47,842	76,485	73,334
Honey (lb.)	598,161	791,231	597,439
Beef, frozen (cwt.)	732,255	867,781	981,673
Lamb, frozen (whole carcasses) (cwt.)	3,380,125	3,963,439	4,119,004
Mutton, frozen (whole carcasses) (cwt.)	1,059,780	1,540,250	1,844,087
Pork, frozen (cwt.)	172,100	162,980	233,780
Veal, frozen (cwt.)	156,415	98,382	86,242
Other frozen meats (cwt.)	235,356	378,856	552,722
Meats, canned (cwt.)	108,896	176,577	363,310
Meat extract (lb.)	795,459	1,024,131	834,687

Commodity	1950-51	1951-52	1952-53
Sausage casings (lb.)	4,223,777	7,057,939	6,502,047
Milk, preserved (lb.)	17,421,725	27,615,182	30,129,238
Milk, dried (lb.)	68,062,110	92,075,403	112,930,165
Apples, fresh (lb.)	24,578,536	57,894,185	46,867,020
Peas (cwt.)	383,339	412,580	296,204
Potatoes (cwt.)	152,560	48,740	21,960
Calf skins (number)	1,001,584	1,071,278	1,202,464
Cattle hides (number)	321,033	415,810	484,377
Rabbit skins (number)	8,542,612	4,394,995	3,084,239
Opossum skins (number)	599,926	1,007,049	306,966
Sheep skins, with wool (number)	605,359	934,022	1,221,864
Sheep skins, without wool (number)	11,781,654	22,756,988	18,732,360
Wool lb. (000)	263,723	474,991	406,267
Linen-flax (fibre and tow) (cwt.)	1,537	4,762	666
Seeds, grass and clover (cwt.)	117,865	136,080	151,996
Edible fats (cwt.)	128,791	301,303	255,905
Inedible fats (ton)	14,699	29,436	34,267
Coal (ton)	3,016	19,288	2,140
Kauri gum (ton)	1,050	955	284
Gold (oz.)	70,491	85,709	61,701
Silver (oz.)	47,286	3,531	32,170
Timber, sawn (sup. ft.)	11,519,613	29,879,199	12,600,449
Sugar of milk (lb.)	7,188,226	6,867,104	8,864,101

EXPORTS OF NEW ZEALAND PRODUCE (VALUES) FOR YEARS ENDED 30 JUNE.

Commodity	1950-51	1951-52	1952-53
	£	£	£
Butter	37,365,795	45,186,457	56,103,618
Butterfat, dry	40,444	152,846	202,203
Casein	664,794	1,268,420	1,243,338
Cheese	14,535,255	16,626,095	16,738,010
Fish	450,300	867,013	1,149,100
Honey	29,014	34,454	50,064
Beef, frozen	2,228,542	3,370,476	4,274,395
Lamb, frozen (whole carcasses)	17,374,104	21,813,952	27,610,530
Mutton, frozen (whole carcasses)	3,165,101	4,112,322	5,341,299
Pork, frozen	1454,163	1,402,628	2,051,788
Veal, frozen	493,797	412,790	492,732
Other frozen meats	998,202	2,181,502	3,760,205
Meats, canned	1,005,415	2,400,520	5,608,982
Meat extract	112,670	119,240	200,757
Sausage casings	2,363,477	5,431,496	3,536,935
Milk, preserved	606,196	1,156,434	1,408,818
Milk, dried	2,440,714	3,856,939	5,543,034
Biscuits	18,112	23,283	31,509
Apples, fresh	538,263	2,119,049	1,740,789
Peas	692,689	891,632	783,433
Potatoes	119,297	61,646	36,310
Calf skins	1,208,112	1,032,736	996,868
Cattle hides	1,661,757	1,923,225	1,730,307
Rabbit skins	348,616	150,186	73,048
Opossum skins	278,046	317,249	86,456
Sheep skins, with wool	937,350	1,033,451	952,354
Sheep skins, without wool	5,003,467	9,709,481	6,408,467
Other hides and skins	210,530	216,009	133,231
Wool	102,995,294	110,883,566	81,564,439
Linen flax (fibre and tow)	7,086	70,307	2,028
Seeds, grass and clover	1,781,030	1,811,549	1,796,990
Edible fats	683,370	1,721,700	1,076,796
Inedible fats	1,034,310	2,392,787	2,542,573
Coal	13,787	74,065	12,972
Kauri gum	119,262	129,897	42,197
Gold	838,350	1,042,417	744,962
Silver	12,568	1,052	9,916
Machinery and machines	137,792	352,117	243,674
Timber, sawn	288,852	1,085,200	435,589
Sugar of milk	269,579	249,474	331,319
Totals	206,248,079	252,102,125	238,418,724
* Including commodities not enumerated.			

RE-EXPORTS.—Until recent years the forwarding trade of New Zealand has never been of great significance. In most years, ships' and international aircraft stores, in which aviation spirit and bunker and lubricating oils loom largely, make up between a third and a half of the total re-exports. The balance is mainly comprised of various classes of machinery and metal manufactures, motor, spirits, textiles, and cinematograph films. Munitions and war stores comprised the bulk of the large totals for the later war years.

There is a genuine entrepôt trade with the islands of the Pacific, the amount of which is, however, comparatively small. Exports to Cook Islands and Niue, which are treated as part of New Zealand, are not included in the figures of either exports or re-exports.

Particulars of re-exports over a period of years are contained in the next table. Specie is not included in the figures.

	£
1932	633,532
1933	597,168
1934	571,554

	£
1935	486,648
1936	488,135
1937	505,322
1938	575,657
1939	601,286
1940	767,597
1941	532,477
1942	739,063
1943	1,627,900
1944	6,105,148
1945	3,114,747
1946	994,612
1947	1,703,235
1948	1,354,856
1949	1,194,463
1950	1,420,140
1951	1,732,955
1952	2,141,980

The destination of this re-export trade is shown in the following table.

Country	1950	1951	1952
	£	£	£
United Kingdom	341,516	228,845	247,752
Hong Kong	3,665	4,794	1,242
Malaya	5,550	413	8,639
Union of South Africa	9,894	2,503	6,518
Canada	2,953	1,533	3,267
Australia	253,082	359,145	459,435
Fiji	51,227	125,966	198,642
Gilbert and Ellice Islands	8,080	6,928	9,773
Nauru Island	10,051	14,559	11,961
Norfolk Island	16,144	17,996	27,009
Solomon Islands	5,306	4,149	3,680
Tonga	50,242	35,714	35,491
Western Samoa	52,217	77,999	68,695
Belgium	462	24,861	1,043
France	15,276	137	868
Japan		6,556	11,829
United States of America	18,660	21,032	72,262
Society Islands	3,792	9,918	14,460
Tasman Archipelago	9,839	3,203	932
New Caledonia	3		13,108
Other countries	15,816	15,483	28,176
Ships' stores	546,365	771,221	917,198
Totals (excluding specie)	1,420,140	1,732,955	2,141,980

EXPORTS TO COOK ISLANDS AND NIUE.—Trade with the Cook and associated Pacific Islands is not regarded as external to New Zealand, but merely as interchange between different parts of the country, and it is therefore not included in the account of the external trade. The trade of these islands with other countries is also omitted from New Zealand trade statistics. Separate returns are made of the transactions between New Zealand and these islands, and exports to the islands are summarized below.

Year	Exports
	£
1941	75,814
1942	73,673
1943	103,760
1944	93,229
1945	133,012
1946	166,496
1947	254,461
1948	291,227
1949	378,487
1950	509,983
1951	525,068
1952	478,300

Further particulars regarding the trade of the islands will be found in Section 43, Island Territories.

10 C—IMPORTS

THE statistics of imports are compiled from entries passed at the Customs. The value shown for all merchandise imported is for the purpose of this Section now based on the current domestic value in the country of export at the time of exportation. Import values are expressed in terms of New Zealand currency. In Section 10A will be found (in conjunction with export figures) a summary of import totals for recent years, expressed both in New Zealand currency and in sterling, together with a series of index numbers of the volume of import trade. Import totals are exclusive of specie, except where the contrary is expressly stated. Reference should be made to Section 10A for details of system of valuation of imports as now used in these tables.

IMPORT CONTROL.—A brief discussion of import control appears in Section 10A.

CLASSIFICATION OF IMPORTS.—The table following, classifying imports by broad divisions, is based on a grouping of the classes given in the subsequent table (refer page 296). It illustrates the great variety of imports which New Zealand receives in exchange for its few basic exports, figures of which are given in the table on page 276. The food, etc., division accounts for a little in excess of 10 per cent of the total imports in most years, the principal constituents being wheat, fruits, sugar, cocoa beans, tea, beverage spirits, and tobacco. Petroleum fuels are the principal items in the oils, etc., division, comprising approximately 6 to 7 per cent of the total, while drugs, chemicals, and manures account for approximately 4 per cent. It should perhaps be mentioned that, while New Zealand's livestock production is independent of imported animal feeding stuffs, it is highly dependent on the import of ruminant manures and materials for their manufacture, these constituting a large proportion of the drugs, chemicals, and manures group. The remainder of the imports are made up largely of manufactured textiles and metal goods (including machinery and vehicles) both for capital purposes and consumption. The above classes in general comprise some 60 per cent of the total imports.

Calendar Year	Imports (c.d.v.)							
	Food, Drink, and Tobacco	Apparel, Textiles, Fibres, and Yarns	Oils, Fats, and Waxes	Metals, Metal Manufactures, and Machines	Paper and Stationery	Drugs, Chemicals, and Manures	Vehicles (Including Parts and Tires)	Total*
1935	486,648							486,648
1936	488,135							488,135
1937	505,322							505,322
1938	575,657							575,657
1939	601,286							601,286
1940	767,597							767,597
1941	532,477							532,477
1942	739,063							739,063
1943	1,627,900							1,627,900
1944	6,105,148							6,105,148
1945	3,114,747							3,114,747
1946	994,612							994,612
1947	1,703,235							1,703,235
1948	1,354,856							1,354,856
1949	1,194,463							1,194,463
1950	1,420,140							1,420,140
1951	1,732,955							1,732,955
1952	2,141,980							2,141,980

Calendar Year	Imports (c.d.v.)							
	Food, Drink, and Tobacco	Apparel, Textiles, Fibres, and Yarns	Oils, Fats, and Waxes	Metals, Metal Manufactures, and Machines	Paper and Stationery	Drugs, Chemicals, and Manures	Vehicles (Including Parts and Tires)	Total*
1942	6,284	8,548	3,285	8,868	1,358	2,153	1,345	48,960
1943	5,244	10,627	4,148	13,139	2,376	2,856	1,312	86,584
1944	6,375	13,020	4,425	15,434	2,312	2,701	2,260	78,543
1945	8,325	11,738	3,535	11,700	2,188	2,913	1,545	50,080
1946	9,238	14,201	3,838	17,912	3,325	4,116	4,909	65,065
1947	14,015	29,071	6,564	28,404	6,787	5,455	11,950	116,946
1948	13,205	25,521	8,838	34,488	6,310	4,789	10,629	116,857
1949	12,909	23,557	7,455	34,305	4,628	4,861	8,601	109,121
1950	17,681	31,342	10,672	42,551	6,056	6,363	12,548	143,585
1951	21,775	44,242	11,665	49,754	10,078	7,455	18,550	187,758
1952	24,114	35,854	16,040	74,937	14,741	9,901	27,589	229,447

* Including classes not listed.

Since 1914 the statistics of both imports and exports have been classified according to the nature of the commodity, the items being assembled in well-defined classes as shown in the following table, covering merchandise imports for the years 1950, 1951, and 1952. In January 1949 the list of individual trade items within each class recorded for statistical purposes was greatly extended, and the contents of a few of the classes were slightly altered. Consequently the figures for some classes are not strictly comparable with those for earlier years shown in the 1950 and earlier issues of the Year Book. The 1952 c.i.f. values are also given.

No.	Class	1950 c.d.v.	1951 c.d.v.	1952 c.d.v.	1952 c.i.f.
		£(000)	£(000)	£(000)	£(000)
01	Foodstuffs of animal origin	976	1,038	788	850
02	Foodstuffs of vegetable origin	11,437	12,298	16,016	19,069
03	Beverages, non-alcoholic, and materials therefor	2,390	4,930	2,145	2,695
04	Spirits and alcoholic beverages	1,217	1,890	2,899	3,328
05	Tobacco and manufactures thereof	1,661	1,620	2,267	2,438
06	Live animals, birds, fish	152	110	97	111
07	Animal substances (mainly unmanufactured) inedible	763	1,516	634	664
08	Vegetable substances and unmanufactured fibres	1,674	3,086	2,654	3,216
09	Apparel, footwear, and minor articles therefor	3,378	4,033	3,985	4,196
10	Textile piece-goods and drapery	22,227	27,955	23,201	25,355
11	Manufactured fibres and miscellaneous textile manufactures	5,737	12,254	3,668	10,454
12	Oils, greases, waxes, and inedible fats	10,672	11,665	16,040	25,169
13	Paints, colours, and varnishes	862	1,024	987	1,204
14	Stone, earth, ores, and non-metallic minerals	792	1,204	1,446	2,844
16	Metals	10,836	12,407	22,379	27,844
17	Metal manufactures other than machinery	6,616	8,272	11,061	13,043
18	Machinery	25,098	29,074	41,497	44,533
19	Rubber and manufactures n.e.i.	1,473	3,762	1,903	2,048
20	Leather and manufactures n.e.i.	697	666	539	579
21	Timber	1,084	1,254	2,748	4,010
22	Wood, cane, and wicker manufactures	236	443	715	836
23	China-ware, earthenware, glassware, and stoneware	2,118	2,338	3,716	4,733
24	Paper	3,731	7,230	11,020	13,364
25	Stationery and paper manufactures	2,236	2,848	3,721	4,068
26	Fancy goods, jewellery, sports requisites, and timepieces	1,319	2,310	2,089	2,246
27	Optical, surgical, dental, and scientific instruments and materials and photographic goods	1,923	2,376	2,353	2,162
28	Chemicals, drugs, and druggists' wares	3,574	4,806	6,631	7,940
29	Manures	2,789	2,649	3,271	7,355
30	Vehicles and rubber tires	12,548	18,550	27,589	32,982
31	Miscellaneous	3,278	4,252	6,387	6,878
	Totals, merchandise imports	143,584	187,758	229,447	276,215

The next classification presented is that according to the purpose or use of commodities, particulars being given for the years 1951 and 1952. It should be mentioned that the absence of essential information in regard to actual purpose or use of a number of commodities has created certain difficulties, necessitating the employment of arbitrary decisions in some instances. Also, where certain commodities are used for more than one purpose it has not been possible to segregate the portion applicable to each. In such cases the whole import has been assessed according to the principal use of the article or commodity in New Zealand.

Class of Merchandise	1951	1952
Producers' materials—	£(000)	£(000)
Building and construction	8,522	16,315
Farm	4,090	4,440
Manufacturing—		
Food	8,695	12,048
Beverages	880	741
Tobacco	1,505	1,781
Textiles (apparel or household goods)	26,967	21,641
Other	34,716	43,401
Fuels and lubricants	10,503	14,616
Auxiliary aids to production	5,782	6,346
Producers' equipment—		
Farm	7,220	8,774
Commerce and industry	22,406	30,890
Transport equipment—		
Railway	1,322	3,085
Road	15,786	23,901
Other	895	664
Consumers' goods—		
Food	5,029	5,344
Beverages	5,902	4,183
Tobacco	179	560
Clothing and accessories	3,994	3,420
Household equipment	11,956	12,291

Class of Merchandise	1951	1952
Other	10,719	13,065
Munitions and war stores	548	1,438
Unclassified	142	503
Totals, merchandise imports	187,758	229,447

In the next table particulars are given of New Zealand's import trade for the years 1951 and 1952 according to the stage of production or degree of manufacture of commodities, the divisions used, following the classification of the former League of Nations, being "crude," "simply transformed," and "more elaborately transformed."

—	1951	1952
Producers' materials—	£(000)	£(000)
Crude	14,627	15,270
Simply transformed	21,502	33,089
More elaborately transformed	49,245	52,007
Fuel and lubricants—		
Crude	87	36
Simply transformed	10,416	14,580
More elaborately transformed		
Auxiliary aids to production—		
Crude		
Simply transformed	4	2
More elaborately transformed	5,777	6,344
Producers' equipment—	£(000)	£(000)
Crude	74	50
Simply transformed	835	1,070
More elaborately transformed	28,717	38,544
Transport equipment—		
Crude		
Simply transformed	377	1,177
More elaborately transformed	17,626	26,473
Consumers' goods—		
Crude	6,265	4,106
Simply transformed	258	429
More elaborately transformed	31,256	34,327
Total merchandise imports*		
Crude	21,054	19,494
Simply transformed	33,392	50,428
More elaborately transformed	133,312	159,525
Totals, all merchandise*	187,758	229,447
* Including unclassified items.		

An indication of the changes that have occurred during the same period is contained in the next table, which gives the figures for each of the divisions as percentages of total imports.

—	1951	1952
Producers' materials—	Per Cent	Per Cent
Crude	7.8	6.7
Simply transformed	11.5	14.4
More elaborately transformed	26.2	22.7
Fuels and lubricants—		
Crude		
Simply transformed	5.5	6.4
More elaborately transformed		
Auxiliary aids to production—		
Crude		
Simply transformed	3.1	2.8
More elaborately transformed		
Producers' equipment—		
Crude		
Simply transformed	0.4	0.5
More elaborately transformed	15.3	16.8
Transport equipment—		
Crude		
Simply transformed	0.2	0.5
More elaborately transformed	9.4	11.5
Consumers' goods—		
Crude	3.3	1.8
Simply transformed	0.1	0.2
More elaborately transformed	16.6	15.0
Total merchandise imports—		
Crude	11.2	8.5
Simply transformed	17.8	22.0
More elaborately transformed	71.0	69.5
Totals, all merchandise*	100.0	100.0
* Including unclassified items.		

Despite the big increase in the value of total imports over recent years, from £116 million in 1948 to £229 million in 1952, the distribution between the various headings did not greatly alter over this period. In particular the proportions applicable to the three main headings remained fairly stable, producers' materials at approximately 45 per cent, producers' equipment at 15 to 17 per cent, and consumers' goods at 17 to 20 per cent. Pre-war the proportions attributable to these three headings were typically—under 40 per cent, 13 per cent, and 27 per cent respectively. The increases in the percentages for producers' materials and equipment and the fall in that for consumers' goods indicate a long-term growth in New Zealand's manufacturing potential. No doubt the policy of import control gave an impetus to this tendency which was further assisted by New Zealand's enforced reliance on local manufacturing industries in the war and early post-war years.

The proportion of commodities described as "crude" and "simply transformed" both rose during the war years at the expense of those classified as "more elaborately transformed," but in recent years the distribution has returned almost to the pre-war pattern, the "more elaborately transformed" group showing only a slightly lower percentage of the total than pre-war.

DIRECTION OF IMPORT TRADE.—The import trade of New Zealand, though spread over more countries than the export trade, is confined mainly to the United Kingdom, Australia, the United States of America, and Canada. For the pre-war years 1938 and 1939 these four countries accounted for 82 and 80 per cent respectively of the total imports of New Zealand. During the war period, mainly as a result of the severance of trade with Japan,

Indonesia, and most European countries, this concentration of New Zealand's imports was even more marked, and in 1946 the percentage was 85. In the following years, mainly because of the resumption of imports from certain European countries, the proportion fell to normal, being 81 per cent in 1949 and 1950. It fell however even lower, to 76 per cent, in 1951 on account of increased imports from Europe, but rose to 78 per cent in 1952.

In the early years of settlement Australia was the source from which the young colony drew most of its supplies, and for a long period imports from Australia over-shadowed imports from the United Kingdom. The proportion of imports from Australia, however, decreased steadily from 60 per cent in 1862 to 7 per cent in 1929. For some years up to the beginning of the Second World War the trend was steadily but slowly upward, reaching 16 per cent in 1941. Since then the percentage has fluctuated below this figure, and fell to 10 per cent in 1951, in which year the value of total imports of Australian origin was approximately four times that of New Zealand exports to Australia. In 1952 imports from Australia were worth six times as much as New Zealand exports to that country.

Imports from the United Kingdom comprised between 60 per cent and 70 per cent of total imports during the "eighties" and "nineties", so that, at that time, the United Kingdom and Australia between them supplied approximately 80 per cent of the total imports of New Zealand. With the disruption in trading relations during the First World War other countries—namely the United States of America and Japan—increased their share of New Zealand's import trade. This trend was accentuated by the appearance of new industrial products, in which the United States occupied a dominant position, and by severe foreign competition in staple United Kingdom manufactures such as the textile industry. In the circumstances it is not surprising to find that the proportion of goods of United Kingdom origin included in New Zealand's imports of merchandise fell from about 60 per cent before the First World War to about 46 per cent in the late "twenties."

From 1930 onwards the relative position of the United Kingdom in New Zealand's import trade improved, partly due to New Zealand's tariff policy of preference to Commonwealth countries. During each of the five years 1931–35 over 50 per cent of the imports of merchandise were of United Kingdom origin, this recovery having been made despite the growth in imports from Australia of certain goods—e.g., iron and steel—which were formerly almost entirely imported from the United Kingdom. From 1935, however, the proportion again declined, particularly during the war years, owing to difficulties of supply and abnormal imports of lend-lease material from the United States. With the return to more normal trading conditions in 1946 imports from the United Kingdom rose

to 48 per cent of the total. Increased imports from Canada and the United States of America during 1947, plus the re-opening of many pre-war continental markets, resulted in the percentage dropping to 43 in 1947, but since then the imperative need to restrict expenditure in non-sterling areas and the increased availability of British goods for export has resulted in the United Kingdom resuming its pre-war position as the supplier of more than half New Zealand's import requirements (60 per cent in 1950, but dropping to 54 per cent in 1951 and 1952).

The United States of America was sending goods to New Zealand almost from the foundation of the colony, and the share of the imports received from that country steadily increased till in the first decade of the present century it was 11 or 12 per cent. The adoption of Imperial preference seems to have caused a temporary drop in the figure to about 7 per cent, though the proportion maintained a steady increase for several years after the First World War, and, indeed, considerably surpassed its old level. From 1933 to 1940 about one-eighth of the total imports came from the United States of America. The cutting-off of supplies from the United Kingdom and certain other countries owing to the exigencies of war and the necessity of obtaining war materials resulted in imports of United States of America origin showing large increases in the later war years. In 1943 imports from this quarter reached 37 per cent of the total, higher than the percentage from the United Kingdom. However, in 1946 imports from the United States of America were only 16 per cent of the total, but rose again in 1947 to 18 per cent. Both these percentages are well above those of the immediate pre-war years. In 1948, 1949, and 1950 the acute shortage of dollar exchange imposed, of necessity, a drastic restriction in imports of United States of America origin, which fell progressively to 11, 10, and 7 per cent of the total. In 1951, with the easing of import restrictions, the absolute value of imports from this country again rose, by two-thirds of the previous year's figure, but was still only 9 per cent of the total. It remained at this level in 1952.

Imports of Canadian origin gradually rose to 10 per cent of the total (in 1929), but fell during the depression period to 4.5 per cent (in 1932). By 1939 the proportion had risen to 9 per cent, but a very irregular movement prevailed during the war years, the 1943 figures reaching the high proportion of 12 per cent. Imports from Canada, as a "hard" currency area, fell to a marked degree during 1948, 1949, and 1950, the percentages of total imports being 5, 4, and 2, but recovered very slightly in 1951, reaching 3 per cent of the total, and remained at that figure in 1952.

It should be noted that the nomenclature used in the following tables in regard to countries of origin of imports refers generally to status and territories in the years indicated and not necessarily to the present position.

The table which follows shows imports during the last eleven years from the United Kingdom, other British Commonwealth countries, and other countries.

Year	Country of Shipment			Country of Origin			Total Merchandise Imports
	United Kingdom	Other British Commonwealth Countries	Other Countries	United Kingdom	Other British Commonwealth Countries	Other Countries	
	£	£	£	£	£	£	£
1942	18,247,566	15,480,549	15,231,896	18,324,410		15,005,051	15,630,550
1943	29,642,302	24,018,004	32,923,631	29,650,794		23,845,874	33,087,269
1944	31,751,736	18,893,049	27,898,135	31,711,959		18,637,453	28,143,508
1945	17,920,376	16,948,013	15,211,775	18,038,992		16,648,133	15,393,039
1946	31,061,180	19,631,764	14,371,896	31,079,078		19,336,631	14,649,143
1947	30,323,515	36,085,562	30,537,128	30,006,545		35,700,869	31,238,791
1948	61,309,645	32,463,096	23,076,579	61,006,474		32,028,307	23,814,539
1949	60,516,627	29,507,035	19,097,676	59,976,322		28,509,714	20,635,302
1950	87,583,194	33,253,974	22,747,264	86,240,941		32,353,075	24,990,417
1951	102,804,117	47,946,239	37,007,385	100,620,064		46,429,155	40,708,522
1952	129,213,357	50,855,508	49,378,444	125,990,760		48,734,386	54,722,163

The next table shows in more detail the principal countries from which New Zealand draws its imports, figures on the basis of country of origin being given for the years 1950 to 1952.

Country	1950	1951	1952
<i>British Commonwealth Countries, Protected States, and Trust Territories</i>	£	£	£
Europe—			
United Kingdom	86,240,940	100,620,064	125,990,760
Gibraltar, Malta, and Gozo	4,822	8,675	15,636
Asia—			
Bahrein Island	1,530,913	1,883,735	2,678,096
British Borneo	1,271,965	1,159,940	998,818
Ceylon	1,804,310	3,455,181	1,359,731
Hong Kong	138,928	276,629	282,218
Republic of India	2,021,088	6,030,132	2,335,243
Malaya and Singapore	1,334,323	3,696,615	1,783,036
Pakistan	32,618	68,792	12,612
Other	860	1,467	4,670
Africa—			
Anglo-Egyptian Sudan	12,319	10,963	18,888
British West Africa	569,311	726,015	540,174
Kenya and Uganda	111,844	256,099	307,036
Southern Rhodesia	24,098	9,521	23,477
Seychelles		1,546	55,562
Swaziland, Bechuanaland, Basutoland	8,175	2,913	21,150
Tanganyika Territory	102,217	369,878	259,081
Union of South Africa	895,562	1,563,311	1,251,663
Other	2,075	3,535	21,053
America—			
British Guiana	2,751	14,276	6,742
British West Indies	255,326	342,373	1,004,185
Canada	3,244,487	5,586,608	8,070,631
Other	240	204	649
Pacific—			
Australia	17,296,362	19,321,914	24,364,530
Fiji	1,013,425	1,005,279	2,332,015
Gilbert and Ellice Islands	83,578	107,333	98,936
Nauru Island	232,818	292,406	622,665
New Zealand (re-imports)	31,434	30,998	53,235
Tonga	27,953	29,103	25,180

Country	1950	1951	1952
Western Samoa	276,395	171,976	186,773
Other	1,333	3,285	701
Totals, British Commonwealth countries	118,594,016	147,049,220	174,725,146
<i>Other Countries</i>			
Europe—			
Austria	63,181	271,431	682,454
Belgium	1,020,088	2,705,892	4,625,189
Czechoslovakia	120,132	247,666	352,342
Denmark	80,179	135,211	217,732
Finland	97,813	242,895	503,733
France	1,111,280	2,112,456	3,621,742
Germany, Eastern Zone	3,991	58,081	155,811
Greece	271	28,799	21,485
Republic of Ireland	14,123	17,309	38,625
Italy	244,315	870,539	1,488,372
Luxemburg	46,795	32,712	162,297
Netherlands	552,540	1,099,750	2,270,021
Norway	557,251	740,955	637,924
Poland	4,025	15,395	6,815
Portugal	87,665	169,908	178,497
Russia (U.S.S.R.)	75,514	113,840	60,166
Spain	32,156	57,896	111,168
Sweden	1,119,387	1,731,219	3,110,269
Switzerland	353,987	875,952	1,027,620
West German Federal Republic	191,050	1,260,893	2,279,999
Other	3,565	5,914	531
Asia—			
Borneo	62,300	9,771	6,072
China	359,790	490,912	236,022
Indonesia	3,058,251	3,661,269	4,879,760
Iran	3,318,155	2,390,911	208,009
Iraq	158,676	124,667	115,908
Japan	435,546	2,219,027	3,758,903
Philippines	11,455	40,956	55,755
Saudi Arabia	7,115	12,188	328,611
Siam	34,306	20,711	91,296
Turkey	77,877	72,830	72,951
Other	13,610	11,720	31,535
Africa—			
Algeria	799	15,465	5,137
Belgian Congo	10,758	12,979	5,886
Egypt	89,204	1,006	3,871
Ethiopia	17,297	10,223	11,481
French Morocco	20,606	4,284	56,844
Portuguese East Africa	14,165	2,065	
Portuguese West Africa	307	11,192	2,666
Tunisia	390,473	443,843	189,085
Other	4,182	6,447	4,607
America—			
Brazil	84,170	90,222	75,285
Chile	66,136	86,316	78,961
Ecuador	15,555	11,794	4,903
Mexico	7,860	9,220	156,342
Netherlands Antilles	6	245,875	1,258,539
United States of America	10,467,506	17,620,810	21,249,321
Uruguay	23,760	274,626	1
Venezuela	11,835		249,201
Other	7,538	8,484	29,811
Pacific—			
Tuamotu Archipelago	533,373		
Other	8,498	3,995	2,848
Totals, other countries	24,990,417	40,708,521	54,722,163
Totals, all countries	143,584,433	187,757,741	229,447,309

The following table shows for the last eleven years the percentage of total imports (excluding specie) received from each of the principal countries trading with New Zealand.

IMPORTS (COUNTRY OF ORIGIN)

Country	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
United Kingdom	37.43	34.24	40.38	36.02	47.77	42.76	52.21	55.13	60.06	53.59	54.91
Bahrain Island					0.61	0.85	1.00	1.26	1.07	1.00	1.17
Ceylon	4.23	0.50	0.99	1.58	2.04	1.52	1.85	1.41	1.26	1.84	0.59
Republic of India								2.55	1.41	3.21	1.02
Pakistan	3.38	3.07	3.78	4.79	2.96	3.66	2.82	0.01	0.02	0.04	0.01
Malaya and Singapore	0.10				0.03	0.39	0.57	0.75	0.93	1.97	0.78
Union of South Africa	0.39	0.10	0.10	0.45	0.31	0.38	0.56	0.40	0.62	0.83	0.55
Canada	4.36	12.03	5.90	9.25	6.51	9.03	5.38	3.87	2.26	2.98	3.52
Australia	15.12	10.67	11.90	15.11	14.56	11.61	11.13	12.79	12.05	10.29	10.62
Fiji	2.28	0.63	0.58	0.95	1.75	1.69	1.72	0.77	0.71	0.54	1.02
Other British Commonwealth countries	0.78	0.55	0.54	1.11	0.95	1.40	2.38	2.19	2.21	2.03	1.96
Totals, British Commonwealth countries	68.07	61.79	64.17	69.26	77.49	73.29	79.62	81.13	82.60	78.32	76.15

Country	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
Belgium					0.34	1.90	1.19	1.55	0.71	1.44	2.02
France					0.10	0.68	0.73	0.34	0.77	1.13	1.58
Germany	0.01					0.02	0.07	0.28	0.14	0.70	0.99
Sweden		0.02		0.23	0.70	0.89	1.19	0.56	0.78	0.92	1.36
Iran	0.05		0.14	0.50	0.64	1.47	1.70	1.49	2.31	1.27	0.09
Japan	0.02						0.05	0.30	0.30	1.18	1.64
Indonesia	0.85	0.01			0.01	0.02	1.26	1.93	2.13	1.95	2.13
Netherlands Antilles	0.75		0.78	1.05	0.41					0.13	0.55
Peru	1.22	0.75	1.53	3.01	1.24	0.02					
United States of America	27.80	36.63	32.23	23.72	16.41	18.13	10.79	9.62	7.29	9.38	9.26
Tuamotu Archipelago	0.50	0.40	0.45	1.13	1.13	0.60	0.43	0.54	0.37		
Other countries	0.73	0.40	0.70	1.10	1.53	2.99	2.98	2.26	2.60	3.58	4.23
Totals, other countries	31.93	38.21	35.83	30.74	22.51	26.71	20.38	18.87	17.40	21.68	23.85

It will be seen that the great bulk of New Zealand's imports of merchandise are of British origin, the proportion of total imports derived from British countries in normal times being approximately 75 per cent, although for reasons already outlined this proportion fell during the war years.

Origin of Principal Imports.—The table which follows shows by main countries of origin details of the principal imports into New Zealand for the years 1950-52.

Country of Origin	1950	1951	1952
	(£000)	(£000)	(£000)
<i>Fish (Canned)</i>			
United Kingdom	152	169	145
Union of South Africa	88	73	14
Denmark	3	3	3
Norway	291	408	183
Portugal	23	7	
Japan		53	
Other countries	13	21	22
Totals	547	750	374
<i>Fruits (Canned)</i>			
Malaya	230	119	7
Union of South Africa	195	532	209
Australia	376	575	558
Fiji	46	23	48
Other countries		4	10
Totals	847	1,253	832
<i>Fruits (Dried)</i>			
Union of South Africa	198	232	117
Australia	459	765	681
Greece		27	19
Iraq	159	124	116
Turkey	45	43	45
United States of America		97	38
Other countries	10	3	7
Totals	871	1,291	1,023
<i>Fruits (Fresh)</i>			
Union of South Africa	1	20	69
British West Indies	49	122	101
Australia	323	510	442
Fiji	54	58	32
Tonga	21	24	21
Western Samoa	40	27	34
Italy			10
Other countries	1		1
Totals	489	761	710
<i>Wheat</i>			
Australia	3,910	3,388	6,368
<i>Sugar</i>			
United Kingdom	500	349	696
Union of South Africa		62	35
British West Indies			548
Australia	2,233	1,972	611
Fiji	863	868	2,204
Netherlands	24	15	11
United States of America	9	15	6
Other countries	1	13	18
Totals	3,630	3,294	4,129
<i>Cocoa Beans (Raw)</i>			
British West Africa	268	561	472
Kenya and Uganda		11	
Western Samoa	32	38	27
Ecuador	10		
Venezuela	12		
Other countries	2	7	4
Totals	324	617	503
<i>Tea</i>			
Ceylon	1,686	3,271	1,219
India	170	641	134
China	13	5	2
Indonesia		109	51
Other countries			1

Country of Origin	1950	1951	1952
Totals	1,869	4,026	1,407
<i>Spirits (Beverages)</i>			
United Kingdom	467	804	1,203
Republic of Ireland	2	9	27
Union of South Africa	25	15	19
British Guiana		14	5
British West Indies	55	112	110
Australia	219	190	158
France	183	360	834
Netherlands	34	96	92
Other countries	13	25	21
Totals	998	1,625	2,469
<i>Tobacco and Tobacco Manufactures</i>			
United Kingdom	384	115	437
United States of America	1,271	1,499	1,777
Other countries	6	6	53
Totals	1,661	1,620	2,267
<i>Wool</i>			
United Kingdom	109	149	
Australia	184	580	263
Totals	293	729	263
<i>Kapok</i>			
India	23	42	17
Indonesia	276	282	179
Other countries	4	2	6
Totals	303	326	202
<i>Seeds (excluding Oil Seeds)</i>			
United Kingdom	22	218	98
Australia	195	272	42
Denmark	26	9	1
Finland		10	
France	1	32	6
Netherlands	6	11	12
Sweden	35	52	
United States of America		55	43
Other countries	8	8	10
Totals	293	667	212
<i>Hats, Caps, and Millinery</i>			
United Kingdom	295	383	250
Australia	21	22	11
Czechoslovakia	10	15	14
France	6	17	29
Italy	36	61	53
Switzerland	37	44	24
China	18	24	7
Japan	5	10	6
Ecuador	6	12	5
Other countries	15	21	17
Totals	449	609	416
<i>Hosiery</i>			
United Kingdom	1,035	849	827
Other countries		13	2
Totals	1,035	862	829
<i>Other Apparel</i>			
United Kingdom	1,256	1,622	1,672
Hong Kong		12	3
India	7	29	4
Australia	59	113	88
France	2	13	13
Italy		22	39
West German Federal Rep.		4	24
China		10	4
United States of America	30	63	52
Other countries	10	27	43
Totals	1,364	1,915	1,942
<i>Footwear and Grinders</i>			
United Kingdom	408	475	657
India	4	10	6
Malaya	2	15	3
Canada	20	39	22
Australia	20	26	34
United States of America	12	16	12
Other countries	16	13	27
Totals	482	594	761
<i>Made-up Textiles</i>			
United Kingdom	1,802	2,740	2,114
Hong Kong	14	65	59
India	11	32	17
Australia	80	92	64
Belgium		26	18

Country of Origin	1950	1951	1952
Italy		32	40
Netherlands		25	21
Portugal		11	5
Switzerland		10	28
China	10	21	3
Japan	3	25	26
Other countries	4	29	30
Totals	1,924	3,108	2,425
<i>Cotton Piece-goods</i>			
United Kingdom	7,266	7,947	7,682
Hong Kong	8	43	17
India	590	628	389
Canada	50	167	131
Australia	38	92	40
Austria		9	9
Belgium	75	265	101
Czechoslovakia	20	27	11
France	14	26	18
Italy	3	35	54
Netherlands	20	68	94
Switzerland	4	41	73
West German Federal Rep.	1		18
Japan	24	75	45
United States of America	6	319	425
Other countries	2	16	12
Totals	8,121	9,758	9,119
<i>Silk, Rayon, and Nylon Piece-goods</i>			
United Kingdom	4,750	5,503	4,277
Canada		69	22
Australia	138	141	86
Belgium	3	6	9
Czechoslovakia	11	5	4
France	87	186	120
Italy	106	325	519
Netherlands	2	15	38
Switzerland	1	22	95
West German Federal Republic		46	54
Japan	213	305	137
United States of America	6	183	93
Other countries	5	24	12
Totals	5,322	6,830	5,476
<i>Woolen Piece-goods</i>			
United Kingdom	4,570	4,541	3,407
Australia	135	134	11
Belgium	2	12	3
France		2	16
Italy		25	28
Other countries		9	1
Totals	4,707	4,723	3,466
<i>Other Textile Piece-goods and Drapery</i>			
United Kingdom	1,772	2,506	2,241
India	281	743	238
Australia	52	84	28
Belgium	2	15	23
France	34	65	35
Italy	2	35	88
Switzerland	3	24	19
Japan	2	15	1
United States of America	1	27	8
Other countries	5	21	35
Totals	2,154	3,535	2,716
<i>Bags, Sacks, and Woollpacks</i>			
United Kingdom	6	11	28
India	474	2,912	944
Australia	181	133	285
Other countries	1	11	9
Totals	662	3,067	1,266
<i>Linoleum and Conspoleum</i>			
United Kingdom	547	858	844
Other countries		2	11
Totals	547	860	855
<i>Carpets and Floor Rugs</i>			
United Kingdom	1,534	3,621	3,139
India	1	31	38
Australia	3	85	17
Other countries	5	10	3
Totals	1,543	3,747	3,197
<i>Threads and Yarns</i>			
United Kingdom	2,378	3,358	2,546
Ceylon	5	8	6

Country of Origin	1950	1951	1952
India	4	14	1
Tanganyika	18		
Canada	10	5	1
Australia	313	499	154
Netherlands		26	13
Japan	6	8	
United States of America	3	208	54
Other countries	2	22	16
Totals	2,739	4,148	2,791
<i>Mineral Lubricating Oils and Greases</i>			
United Kingdom	29	30	72
Australia	20	14	25
Iran	10		
United States of America	1,060	982	1,595
Other countries	5	4	
Totals	1,124	1,030	1,692
<i>Motor Spirits</i>			
British Borneo	1,078	901	728
Malaya			511
France			329
Bahrain Island	1,364	1,747	2,309
Iran	1,704	1,443	164
Indonesia	1,641	1,615	2,872
Saudi Arabia			175
Netherlands Antilles		84	807
Venezuela			249
United States of America		301	786
Other countries			1
Totals	5,787	6,091	8,931
<i>Kerosene, Diesel, and Fuel Oils</i>			
United Kingdom			192
British Borneo	123	152	200
Malaya	35	124	260
British West Indies			126
Bahrain Island	162	128	265
Iran	1,512	889	31
Indonesia	1,028	1,278	1,392
Saudi Arabia	7	12	153
Mexico			148
Netherlands Antilles		161	446
United States of America	3	472	553
Other countries			78
Totals	2,870	3,216	3,844
<i>Linseed Oil</i>			
United Kingdom	21	57	2
India	40	272	173
Canada	29	43	77
Uruguay	24		
United States of America		19	
Totals	114	391	252
<i>Paints and Varnishes</i>			
United Kingdom	631	561	619
Union of South Africa			2
Canada	6	36	5
Australia	119	147	154
Netherlands	6	6	10
United States of America	95	253	129
Other countries	5	21	68
Totals	862	1,024	987
<i>Cement</i>			
United Kingdom	212	287	539
Australia	46		48
Belgium	40	191	
Japan		306	167
Other countries			2
Totals	298	784	756
<i>Iron and Steel—Pipes, Tubes, and Fittings</i>			
United Kingdom	751	563	1,336
Canada	307	23	120
Australia	272	311	605
Belgium			159
France	153	221	205
United States of America	32	3	11
Other countries	5	15	109
Totals	1,520	1,136	2,545
<i>Iron and Steel—Plate and Sheet</i>			
United Kingdom	1,856	1,828	3,198
Australia	201	209	402
Belgium	11	192	400
France	3	10	43

Country of Origin	1950	1951	1952
Japan		309	1,364
United States of America	229	278	684
Other countries	1	30	101
Totals	2,301	2,856	6,192
<i>Iron and Steel—Cordage and Wire</i>			
United Kingdom	1,126	682	1,011
Canada		5	11
Australia	130	120	284
Belgium	3	620	870
Czechoslovakia		39	1
France	59	241	488
Netherlands			74
West German Federal Republic	3	45	118
Japan		377	97
United States of America	166	89	158
Other countries	2		30
Totals	1,528	2,180	3,141
<i>Iron and Steel—Other Shapes and Forms</i>			
United Kingdom	1,342	860	1,043
Canada	8	10	25
Australia	399	321	664
Belgium	68	223	898
France	3	62	223
Luxemburg	46	24	136
Netherlands	43	2	16
West German Federal Republic		13	123
Japan		170	1,094
United States of America	120	251	410
Other countries	5	1	35
Totals	2,034	1,937	4,667
<i>Aluminium and Alloys</i>			
United Kingdom	1,101	706	939
Canada	38	51	336
Belgium		22	65
Netherlands	39	92	139
West German Federal Republic		26	190
Japan		226	339
United States of America	5	68	52
Other countries	5	9	40
Totals	1,188	1,200	2,100
<i>Brass, Bronze, and Copper</i>			
United Kingdom	1,520	1,405	1,861
Union of South Africa	19	48	8
Canada	80	389	866
Australia	55	66	68
United States of America	8	5	26
Other countries	1	5	35
Totals	1,683	1,918	2,864
<i>Other Metals</i>			
United Kingdom	264	361	505
Malaya	74	400	11
Canada	2	26	11
Australia	233	308	263
Japan		10	18
United States of America	8	74	58
Other countries	1		6
Totals	582	1,179	872
<i>Artificers' Tools</i>			
United Kingdom	719	780	898
Canada	157	194	232
Australia	175	216	127
Netherlands	1	13	
Sweden	9	32	40
West German Federal Republic	1	23	74
United States of America	73	174	293
Other countries	6	19	22
Totals	1,141	1,451	1,686
<i>Other Metal Manufactures (Not Machinery)</i>			
United Kingdom	4,394	5,071	7,054
Hong Kong	1	25	15
Canada	128	124	158
Australia	456	617	781
Austria	55	12	14
Belgium	1	167	161
France	4	37	41
Netherlands	15	62	138
Sweden	70	91	176
Switzerland	15	18	32
West German Federal Republic	82	225	
United States of America	313	489	520

Country of Origin	1950	1951	1952
Other countries 11	25	60	
Totals	5,475	6,820	9,375
<i>Office and Commercial Machines and Appliances</i>			
United Kingdom	399	430	587
Canada	18	72	60
Australia	8	14	14
Sweden	33	39	18
Switzerland	1	14	17
West German Federal Republic	1	9	14
United States of America	275	282	444
Other countries	1	9	15
Totals	736	869	1,269
<i>Agricultural Machinery</i>			
United Kingdom 689	740	1,435	
Canada 32	60	111	
Australia 197	231	395	
France 8	34	65	
Sweden 24	42	47	
West German Federal Republic 3	14	41	
United States of America 661	576	654	
Other countries 2	5	12	
Totals 1,616	1,702	2,760	
<i>Electric Motors and Parts</i>			
United Kingdom	11,040	1,051	1,280
Canada	90	31	50
Australia	75	63	57
Sweden	35	37	56
United States of America	42	32	32
Other countries	7	18	7
Totals	1,289	1,232	1,482
<i>Insulated Cable and Wire</i>			
United Kingdom	1,604	1,525	2,676
Canada	4	4	54
Australia	29	45	42
Netherlands			140
Sweden	4	6	2
Other countries	5	9	9
Totals	1,646	1,589	2,923
<i>Other Electrical Machinery and Equipment</i>			
United Kingdom	4,186	3,959	6,636
Hong Kong	33	39	36
Union of South Africa		14	5
Canada	137	182	154
Australia	354	361	569
Belgium	173	89	80
Netherlands	114	181	285
Sweden	46	39	87
Switzerland	11	14	20
West German Federal Republic	1	6	47
United States of America	206	335	392
Other countries	7	30	38
Totals	5,268	5,249	8,349
<i>Engines and Parts</i>			
United Kingdom	822	926	1,359
Canada	138	217	241
Australia	53	79	61
West German Federal Republic		12	2
United States of America	382	529	379
Other countries	3	9	13
Totals	1,398	1,773	2,055
<i>Tractors and Parts</i>			
United Kingdom	2,632	2,482	3,178
Canada	42	71	68
Australia	60	122	132
France	5	23	73
Italy	2	16	14
West German Federal Republic	34	20	15
United States of America	1,513	2,881	2,106
Other countries		2	2
Totals	4,288	5,617	5,588
<i>Domestic Machinery and Appliances n.e.c.</i>			
United Kingdom	507	688	1,015
Australia	6	13	10
Czechoslovakia		27	19
Denmark	34	47	58
Italy	1	20	17
Netherlands		21	32
Sweden	13	16	22
Switzerland	10	52	66
West German Federal Republic		3	62

Country of Origin	1950	1951	1952
Other countries	4	8	8
Totals	575	895	1,309
<i>Metal and Wood-working Machinery</i>			
United Kingdom	906	974	1,455
Canada	19	76	79
Australia	216	215	397
Sweden	78	37	67
West German Federal Republic	4	13	51
United States of America	148	214	385
Other countries	12	24	30
Totals	1,383	1,553	2,464
<i>Other Machinery</i>			
United Kingdom	4,671	5,341	8,487
Union of South Africa	1	5	32
Canada	67	124	169
Australia	752	888	1,366
Belgium	13	5	8
Czechoslovakia	3	9	7
Denmark	6	14	75
France	44	14	53
Italy	5	5	31
Netherlands	5	23	31
Sweden	112	140	231
Switzerland	31	62	44
West German Federal Republic	83	132	362
United States of America	1,096	1,824	2,321
Other countries	9	8	30
Totals	6,898	8,594	13,297
<i>Rubber and Manufactures n.e.c.</i>			
United Kingdom	429	593	812
Ceylon	31	26	51
Malaya	928	2,969	857
Union of South Africa	1	2	19
Canada	15	24	19
Australia	42	68	62
Western Samoa		13	14
France		18	15
Sweden	9	1	4
United States of America	18	46	41
Other countries		3	9
Totals	1,473	3,763	1,903
<i>Leather and Manufactures n.e.c.</i>			
United Kingdom	566	519	415
India	38	26	30
Canada	9	11	8
Australia	68	56	50
France	8	15	4
United States of America	3	26	16
Other countries	4	12	16
Totals	696	665	539
<i>Timber</i>			
British Borneo	8	5	15
British West Africa	13	10	35
Canada	255	485	634
Australia	577	501	1,469
Sweden	15	13	24
Japan	155	175	172
United States of America	56	55	363
Other countries	5	9	36
Totals	1,084	1,253	2,748
<i>Table Glass and Chisware</i>			
United Kingdom	903	888	1,349
Australia	26	49	49
Czechoslovakia	5	26	74
Other countries	5	26	75
Totals	939	989	1,547
<i>Glass, Plate and Sheet</i>			
United Kingdom	323	300	551
Belgium	25	84	212
Other countries	6	14	12
Totals	354	398	775
<i>Pulp and Paperboard</i>			
United Kingdom	134	236	293
Canada	153	208	226
Australia	23	21	23
Finland	29	104	254
Netherlands	5	11	38
Norway	29	51	36
Sweden	75	310	421
West German Federal Republic	16	6	19

Country of Origin	1950	1951	1952
United States of America	43	356	509
Other countries	8	25	29
Totals	515	1,328	1,848
<i>Printing Paper</i>			
United Kingdom	705	1,192	1,564
Canada	753	1,275	2,021
Austria	1	127	333
Czechoslovakia		18	16
Finland	2	22	21
France		9	121
Netherlands	1	10	20
Norway	70	82	114
Sweden	42	76	66
French Morocco			50
United States of America	6	343	381
Other countries		28	48
Totals	1,580	3,182	4,755
<i>Other Paper</i>			
United Kingdom	990	1,314	1,765
Canada	175	294	540
Australia	58	56	102
Austria	3	84	260
Belgium	1	10	51
Czechoslovakia	4	8	19
Finland	30	97	127
France	18	26	51
Italy			56
Netherlands	1	30	39
Norway	80	138	231
Sweden	225	300	374
West German Federal Republic	4	101	80
Japan		27	12
United States of America	42	214	701
Other countries	5	20	9
Totals	1,636	2,719	4,417
<i>Printed Books, Papers, Magazines, and Music</i>			
United Kingdom	1,065	1,144	1,389
Canada	8	3	6
Australia	421	460	766
Netherlands	7	12	10
United States of America	128	133	177
Other countries	7	15	21
Totals	1,636	1,767	2,369
<i>Other Stationery and Paper Manufactures</i>			
United Kingdom	565	922	743
Canada	3	2	5
Australia	95	115	123
Sweden		2	425
United States of America	17	16	20
Other countries	10	24	36
Totals	690	1,081	1,352
<i>Timepieces and Parts</i>			
United Kingdom	234	217	156
Australia	56	48	25
France	23	28	15
Switzerland	195	487	433
West German Federal Republic		42	106
United States of America	4	9	8
Other countries	2	12	4
Totals	514	843	747
<i>Photographic Equipment</i>			
United Kingdom	323	304	222
Australia	232	272	340
Belgium	6	23	16
France	12	62	18
Italy	1	11	4
West German Federal Republic	7	59	40
United States of America	20	18	22
Other countries	5	19	21
Totals	606	768	683
<i>Scientific, Surgical, etc., Instruments and Appliances</i>			
United Kingdom	710	923	886
Union of South Africa	8	25	19
Canada	2	4	2
Australia	61	87	60
France	2	19	9
Italy	2	8	43
West German Federal Republic	5	14	31
United States of America	121	131	91
Other countries	10	19	32

Country of Origin	1950	1951	1952
Totals	921	1,230	1,173
<i>Chemicals, Drugs and Druggists' Wares</i>			
United Kingdom	2,341	2,668	4,256
Hong Kong	8	5	7
India	4	17	7
Union of South Africa	29	32	47
Canada	8	42	18
Australia	722	1,072	1,140
Belgium	13	38	52
France	36	91	99
Italy	14	56	69
Netherlands	31	82	63
Norway	32	6	13
Sweden	5	16	23
Switzerland	20	44	67
West German Federal Republic	2	41	118
China	12	19	7
Japan	1	5	68
Brazil	9	5	4
United States of America	264	536	514
Other countries	23	30	59
Totals	3,574	4,805	6,631
<i>Minerals (including Crude Sulphur)</i>			
United Kingdom	155	137	165
Seychelles	2		56
Canada	18		
Gilbert and Ellice Islands	84	107	99
Nauru	233	293	623
Belgium	542	586	568
France	275	207	366
Netherlands	11	43	66
West German Federal Republic	1	31	25
Germany—Eastern Zone		41	129
Japan		38	157
Algeria		15	
Egypt	89		
French Morocco	19		
Tunisia	386	443	189
Chile	53	85	75
Tuamotu Archipelago	534		
United States of America	383	620	748
Other countries	4	3	5
Totals	2,789	2,649	3,271
<i>Aircraft and Parts</i>			
United Kingdom	314	574	313
Canada	2	40	16
Australia	28	21	21
United States of America	65	45	98
Other countries	1	1	
Totals	410	681	448
<i>Bicycles, Motor and Power Cycles, and Parts</i>			
United Kingdom	723	924	1,185
Australia	3	5	5
Other countries	5	9	36
Totals	731	938	1,226
<i>Motor Cars</i>			
United Kingdom	4,254	8,250	12,523
Canada	12	515	843
Belgium			548
France		11	10
United States of America	25	198	373
Other countries	3	3	13
Totals	4,294	8,977	14,310
<i>Commercial Vehicles</i>			
United Kingdom	2,284	3,035	3,811
Canada	48	15	126
Australia	2	112	259
United States of America	12	115	82
Other countries		1	2
Totals	2,346	3,278	4,280
<i>Parts of Motor Vehicles</i>			
United Kingdom	804	874	1,633
Canada	187	248	202
Australia	149	186	196
France	2	9	13
United States of America	327	364	552
Other countries		1	7
Totals	1,469	1,682	2,603
<i>Railway and Tramway Vehicles and Equipment</i>			
United Kingdom	1,853	1,025	2,416

Country of Origin	1950	1951	1952
Australia	41	37	94
United States of America	16	30	298
Other countries			1
Totals	1,910	1,092	2,809
<i>Pneumatic Tyres and Tubes (exceeding in Diameter)</i>			
United Kingdom	469	561	894
Union of South Africa	26	2	27
Canada	10	20	49
United States of America	21	40	78
Other countries	2	5	10
Totals	528	628	1,058
<i>Musical Instruments</i>			
United Kingdom	278	575	614
Australia	50	67	39
Czechoslovakia	4	9	5
France	13	5	8
Italy	11	36	50
West German Federal Republic	1	13	22
Other countries	8	36	37
Totals	365	741	775
<i>Plastics and Synthetic Resins and Materials Therefor</i>			
United Kingdom	452	902	981
Australia	139	184	246
Canada	5	1	3
United States of America	75	105	113
Other countries	4	13	48
Totals	675	1,205	1,391

QUANTITIES OF PRINCIPAL ITEMS IMPORTED.—The following table shows the quantity imported, during each of the years 1950 to 1952, of a large number of the principal items.

Item	Unit of Quantity	1950	1951	1952
Canned fish	lb. (000)	5,987	6,070	3,128
Fruit—				
Canned	lb. (000)	19,520	25,495	16,761
Dried	lb. (000)	22,423	26,035	19,333
Fresh—				
Bananas	lb. (000)	27,937	19,490	13,645
Oranges	lb. (000)	19,173	27,732	20,424
Grain and pulse—				
Wheat	Bush. (000)	5,835	5,172	8,463
Maize and cornflour	lb. (000)	5,682	5,739	5,122
Rice (other than rice flour and ground rice)	Cwt.	63,500	48,200	50,800
Nuts, edible	lb. (000)	3,228	5,654	4,001
Vegetable butters and fats	lb. (000)	2,403	1,456	1,448
Confectionery	lb. (000)	213.8	213.4	188.4
Sugar	Cwt. (000)	2,532	2,011	2,169
Tea	lb. (000)	11,646	24,466	8,940
Coffee, raw	lb. (000)	1,124	1,187	934
Cocoa-beans, raw	lb. (000)	3,699	5,379	5,239
Cigarettes	lb. (000)	739	179	578
Tobacco	lb. (000)	5,643	6,541	6,812
Spirits (beverages)	Liq. gals. (000)	963	1,342	1,739
Wine	Liq. gals. (000)	383	277	264
Cotton and linen piece-goods—				
Cheese-bondages and meat-wraps	lb. (000)	3,260	2,418	2,978
Knitted	lb. (000)	401	252	178
Woven	Sq. yds. (000)	53,901	52,769	41,776
Woolen piece-goods	Sq. yds. (000)	10,798	8,312	5,878
Silk, and artificial and synthetic fibre piece-goods—				
Woven	Sq. yds. (000)	24,611	26,395	17,989
Knitted	lb. (000)	1,550	1,967	1,635
Yarns—				
Cotton	lb. (000)	1,999	2,179	4,884
Silk and artificial silk	lb. (000)	647	887	583
Woolen	lb. (000)	1,790	2,109	1,163
Bags, sacks, wool-packs	Doz. (000)	275	1,370	634
Footwear—				
Children's	Doz. pairs	42,100	39,000	48,000
Adults	Doz. pairs	10,900	15,600	18,200
Hosiery—				
Full length	Doz. pairs (000)	292.3	232.4	200.5
Half and three-quarter hose	Doz. pairs (000)	70.4	59.8	61.8
Gloves	Doz. pairs (000)	41.9	106.1	86.2
Hat-hoods, felt, unblocked	Doz. (000)	104.5	114.5	71.6
Mowers and harvesters	No.	5,616	5,875	6,699
Cream separators	No.	5,652	3,589	4,800
Electrical—				
Storage batteries	No.	7,324	10,711	30,956
Wireless valves	No. (000)	634	847	1,364
Lamp bulbs	No. (000)	2,428	3,076	5,178
Sparking plugs	No. (000)	838	1,245	2,056

Item	Unit of Quantity	1950	1951	1952
Typewriters	No.	5,513	5,760	7,900
Sewing machines, domestic	No.	24,913	30,655	29,238
Iron and steel—				
Bar, rod, billet, bloom, pig	Cwt. (000)	1,366	998	2,462
Angle, tee, channel, girder	Cwt. (000)	480	288	564
Plate and sheet	Cwt. (000)	1,173	1,087	1,886
Pipes, tubes, and fittings	Cwt. (000)	566	403	806
Wire	Cwt. (000)	627	720	910
Copper: bar, plate, piping	Cwt.	66,700	59,500	75,600
Brass: bar, plate, piping	Cwt.	29,500	27,700	38,000
Lead: pig, sheet	Cwt.	15,100	23,100	61,900
Tin: bar, ingot, etc.	Cwt.	2,800	9,200	4,700
Cordage of metal	Cwt.	83,300	58,800	86,000
Bicycles	No.	38,746	33,315	63,246
Motor cycles	No.	2,234	5,199	4,276
Motor cars	No.	16,568	26,899	39,177
Lorries, trucks, etc.	No.	8,602	10,336	10,541
Tractors	No.	8,801	10,045	10,148
Tires (excluding bicycle)	No. (000)	101	76	134
Mineral oils—				
Motor spirits	Gals. (000)	144,028	140,355	196,639
Lubricating oil	Gals. (000)	7,384	6,158	8,884
Kerosene	Gals. (000)	7,844	7,193	8,915
Crude petroleum fuel oils, etc.	Gals. (000)	130,465	124,131	136,666
Chemicals—				
Acids	lb. (000)	1,464	1,794	2,291
Calcium carbide	Cwt.	40,100	20,800	39,800
Sulphur	Tons	62,499	73,760	79,246
Salt	Cwt. (000)	862	786	1,452
Caustic soda	Cwt.	45,100	49,900	81,500
Carbonate of soda	Cwt. (000)	213.3	145.9	359.9
Manures—				
Nitrate of soda	Tons	3,067	264	3,241
Phosphatic	Tons	645,939	521,783	753,824
Potash	Tons	12,686	19,331	24,705
Sulphate of ammonia	Tons	4,587	4,692	4,405
Timber, sawn	Sup. ft. (000)	23,275	25,353	46,655
Glass: plate and sheet	Sq. ft. (000)	9,415	10,521	17,494
Linseed oil	Gals. (000)	188	637	380
Dry paints	Cwt. (000)	209.0	199.9	169.3
Plaster-of-paris	Cwt. (000)	168.5	141.2	376.1
Gypsum	Cwt. (000)	566.2	304.3	702.0
Asbestos, crude	Cwt.	75,700	47,000	94,900
Cement	Cwt. (000)	1,424.9	2,868.1	2,469.9
Pulp and paper building board	Sq. ft. (000)	2,127	6,871	14,412
Printing paper	Cwt. (000)	708.4	930.6	1,141.7
Other paper	Cwt. (000)	193.0	165.7	335.8
Cardboard, etc.	Cwt. (000)	160.2	281.1	338.6
Raw rubber	Cwt. (000)	102.0	152.3	62.4
Paraffin wax	lb. (000)	2,444	3,397	3,640
Asphalt, bitumen, and road oils	Cwt. (000)	559.4	347.9	638.0

Imports by Ports.—With the closing of the Customs Houses at Kaipara, Patea, Hokitika, and Westport (from 31 January 1953), New Zealand now has sixteen ports of entry for Customs purposes—seven in the North Island and eight in the South Island, plus the port of Waitangi in the Chatham Islands.

The following table gives the total value of imports of merchandise for the several ports of entry during the five years 1948-52. Waitangi had no overseas imports during this period.

Port	1948	1949	1950	1951	1952
	£	£	£	£	£
Auckland	43,135,554	39,566,550	53,671,448	73,200,383	85,245,604
Tauranga	4,126	20,144	31,562	27,322	37,779
Gisborne	119,515	112,154	166,248	236,963	289,731
Napier	784,252	1,082,685	1,628,629	1,605,776	2,519,315
New Plymouth	1,103,331	1,639,790	2,291,301	2,396,849	4,064,827
Patea	20,391	18,746	24,867	14,109	
Wanganui	412,547	377,656	467,726	604,592	830,685
Wellington	43,627,324	40,972,251	53,622,052	65,460,462	80,228,185
Wairau (including Pictou)	37,225	33,125	35,885	233,966	86,247
Nelson	254,974	270,065	463,757	378,468	602,281
Westport	27,544	68,789	124,998	240,236	195,237
Greymouth	113,753	83,590	103,653	78,921	119,164
Hokitika	2,507	3,957	3,386		
Lytelton	15,830,984	14,441,063	18,547,289	25,904,065	32,808,217
Timaru	237,132	379,196	354,787	778,185	1,072,533
Oamaru	61,983	49,351	208,345	128,143	290,501
Dunedin	9,829,934	8,850,022	10,315,007	14,764,405	18,167,488
Invercargill	1,255,345	1,153,201	1,522,192	1,704,896	2,889,515
Totals	116,849,221	109,121,338	143,584,432	187,757,741	229,447,209

Three-quarters of the total imports usually come in by way of Wellington or Auckland. For some years prior to the Second World War the value of imports received at Wellington exceeded the Auckland figure by a considerable margin, but in the last two years the Auckland figure has been higher than the Wellington total. On the basis of import values, the next most important ports are Lyttelton, Dunedin, New Plymouth, Invercargill, and Napier.

Perhaps it should be mentioned that imports by air are credited to the port in whose district the air-port is located. Thus goods coming in through Mechanic's Bay and Whemapsi are included in the Auckland figures, imports through Evans Bay in the Wellington figures, and through Harewood in the Lyttelton figures.

IMPORTS FROM COOK AND ASSOCIATED ISLANDS.—Trade with the Cook and associated islands is not included in the export and import totals for New Zealand, but is shown separately in official publications. The following table shows imports into New Zealand from the Group. Further particulars of the trade of the islands will be found in the section dealing with Island Territories.

Year	Imports
1942	61,420
1943	80,781
1944	89,072
1945	80,959
1946	113,313
1947	117,434
1948	168,553
1949	171,314
1950	161,705
1951	192,398
1952	245,883

The principal articles imported into New Zealand from the Cook and associated islands are as follows.

Item	1949	1950	1951	1952
Fruits, fresh—	£	£	£	£
Bananas	1,379	1,335	2,384	2,951
Oranges	19,566	9,798	6,120	38,745
Tomatoes	11,717	8,758	13,761	32,213
Other	3,860	2,447	12,283	26,317
Copra	96,501	101,069	93,020	81,630
Apparel	22,752	24,612	48,083	42,264
Cinematograph films (re-imports)	3,633	2,561	3,760	4,015
Arrowroot	831	943	133	
Hats and caps	1,367		191	
Wickeware	3,679	3,958	3,920	4,831
All other items	6,029	6,224	8,745	12,917

IO D—CUSTOMS TARIFF AND REVENUE

THE TARIFF.—The rates of Customs and excise duty in force in New Zealand are set out in the publication entitled "The Customs Tariff of New Zealand," published by the Government Printer, Wellington.

A summarized historical account of the Customs tariff of New Zealand, setting forth the principal developments and changes from earliest times to 1930, will be found in the 1931 number of the Year-Book. Considerations of space preclude a detailed account of the rates of duty now levied on goods imported into New Zealand, and only a brief survey of the nature of the tariff and of developments since 1930 can be given here.

The basis of Customs taxation is principally *ad valorem*, but specific duties are applied to some lines, including several of the principal revenue items such as alcoholic beverages, tobacco, tea, sugar, and motor spirits.

As the rates of duty on goods vary according to their country of origin as well as their classification, the tariff is printed in "multi-column" form listing rates of duty under the British Preferential Tariff, agreements with certain Commonwealth countries, the Most-favoured-nation Tariff (under which goods from all countries adhering to the General Agreement on Trade and Tariffs are admitted), and the General Tariff.

Briefly the Customs tariff, apart from the obtaining of revenue, has for its objects the following:

- a. The development of New Zealand industries.
- b. The maintenance and extension of markets for New Zealand produce.
- c. The encouragement of intra-Commonwealth trade.

Under the Ottawa Agreement of 1932 New Zealand, in common with the other Commonwealth countries, was committed to hold an inquiry into the tariff and, if necessary, to revise it in accordance with certain explicitly stated principles. As a result of the Ottawa Conference, dutiable goods the produce of the United Kingdom or of any British Commonwealth country except Canada (including Newfoundland), the Union of South Africa, the Republic of Ireland, India, and Pakistan were exempted from the surtax on duty previously payable. Reductions were made in the rates of duty charged on confectionery, apparel, hosiery, and silk and artificial silk piece-goods, and an additional preference to British Commonwealth countries was granted by the imposition of a duty or an increase in the existing rate on foreign cocoa-beans, raw coffee, cigars, rum, asphalt and bitumen, certain unground spices, and paper.

A Tariff Commission was set up in 1933 to inquire into the Customs tariff and to recommend for the consideration of the Government any alterations thereto with a view to implementing the agreement made at Ottawa, and having regard, *inter alia*, to the financial, economic, and industrial conditions in New Zealand.

The revision which followed the report of this Commission was the last complete revision of the tariff undertaken and the resultant new tariff, enacted by the Customs Acts Amendment Act 1934, is in the main still in operation, although extended in its scope by subsequent trade agreements. Some of the principal alterations made in the British preferential rates at that time were listed in the 1946 and earlier issues of the Year-Book.

This tariff retained the surtax payable since 1930 on foreign goods and on some goods of British origin, of nine-fortieths of the duty in some cases but one-twentieth in the case of a few lines, notably spirits, tobacco, timber, sugar, and motor spirits. With the exception of motor spirits, surtax is not payable in respect of goods qualifying for entry as the produce of the United Kingdom or any British Commonwealth country except Canada (including Newfoundland), the Union of South Africa, India, and Pakistan. The prime duty of 3 per cent imposed on 31 July 1931 on most goods not otherwise dutiable also remained, but the list of exemptions from primage has subsequently been extended. Imports from the Republic of Ireland are accorded the same preference under the British Preferential Tariff as those from Canada, the Union of South Africa, India, and Pakistan.

The following is a list of the principal items which, regardless of their country of origin, are entirely free of duty or subject to primage only:

Live animals; barley (if to be used as stock food); bran; pollard; seeds; vegetable butters or fats; currants; dates; figs; prunes; glucose and caramel; nuts, except walnuts; rice; acids, other than acetic; inorganic salts of metallic elements, and many other drugs and chemicals; certain surgical appliances; cans and casks of jute, etc.; woolpacks; raw cotton; hatters' materials; buttons; needles and pins; washing; cotton piece-goods for meat wraps and cheese bandages; umbrella-makers' materials; upholstery materials; cuir, flax, and jute yarns; patent leathers; bricks, other than firebricks; marble in the rough; grindstones and whetstones; cinema films (subject, however, to film-hire tax); bookbinders' materials; cardboard and similar boards; parchment and greaseproof paper; printed books, papers, and music; bookkeepers' apparatus; percussion caps, detonators, and explosives; hay rakes, reapers and binders, mowers, and certain other agricultural implements; certain dairying machinery; sewing machines; iron and other metal in ingots, pigs, or billets; fish and vegetable (other than linned) oils; kerosene and other refined mineral oils not exceeding in specific gravity 0.860 at 60° F. (other than motor spirits); waxes; cork; crude tanning materials; manures; skins and hides.

The following are entirely free or subject only to primage duty if British but dutiable at varying rates if of foreign origin:

Tea in bulk; bananas; oranges, mandarins, and grapefruit; raisins; infants' and invalids' foods; mustard; salt; cocoa beans; raw coffee; sage and tapioca; cornflour; macaroni; acetic acid; cream of tartar; disinfectants; chloroform and other anaesthetics; antiseptics; manufactured dyes; most surgical, dental, optical, and scientific instruments and materials; felt, cotton, linen, and canvas piece-goods; silk and artificial silk piece-goods; leather cloth; oil baire; sewing, etc.; cottons and threads; elastic; plain tape; tailors' lining materials; cotton, silk, and artificial silk yarns; plain tablecloths, towels, and similar plain articles; belting (other than leather); children's boots and shoes; gum boots; rubber hose; most rubber manufactures, except tires for motor vehicles; steel glass; lenses; watch glasses; pianos and certain other musical instruments; gramophone records; artists' materials; paperhangings; sensitized surfaces; waxed paper; paper (other than wrapping) in large sheets or rolls; ball bearings; bolts and nuts; rivets and washers; buckles; chains; fire engines, fire extinguishers, and other fire-extinguishing appliances; typewriters; most electrical apparatus; measuring, testing, etc., appliances; sheep-shearing machines; tractors; artificers' etc., tools; machinery peculiar to industrial processes; iron and other metal in bars or sheets; wire and wire netting; metal cordage; rails for railways and trainways; under-carriage springs and metal fittings for vehicles; asphalt and bitumen; table chamois.

With the object of reducing the cost of building in order to relieve the shortage of dwellings in particular and buildings in general, prefabricated houses, from 20 April 1951, Portland cement, from 6 July 1951, and steel, corrugated aluminium sheet, and certain timbers, from 9 November 1951, were temporarily exempted from all duty, regardless of their origin. The exemption respecting steel and aluminium sheet ceased on 31 December 1952. Provision has been made for the exemption of cement and timber to continue until 31 December 1954. The period during which the duties on prefabricated houses are suspended has been extended to 30 June 1954, but only in respect of importations under the British Preferential Tariff and under the Australian and Canadian Trade Agreements. For the period from 30 June 1953 to 30 June 1954 a duty of 20 per cent *ad valorem* has been imposed on importations of these goods under the Most-favoured-nation Tariff. The normal statutory rate of 50 per cent *ad valorem* plus nine-fortieths of the amount of the duty applies to importations under the General Tariff as from 30 June 1953.

It is impossible to give here an account of the range of duties payable on all of the numerous tariff items, but the duties as at the beginning of December 1953 on some of the principal commodities in general use are mentioned hereunder. It should be noted that, in addition, surtax or primage may also be payable.

Tea.—Tea in bulk, when of British origin, was placed on the free list as early as 1907, when the duty on foreign tea was fixed at 2d. per pound. In 1917 a duty of 3d. per pound was imposed on British tea, the foreign rate being increased to 5d. per pound. British tea in bulk was again placed on the free list in 1923, and the duty on foreign tea reduced to 2d. Rates of 3d. and 5d. per pound respectively were reinstated as from 31 July 1931. On and after 26 July 1948 a duty of 4d. per pound was introduced on tea in bulk imported from most-favoured nations, and from the same date all tea imported under the British preferential tariff was exempted from surtax. On 3 September 1951 tea in bulk of British origin was exempted from all duty and the rates on foreign tea became most-favoured-nation. 1d. general tariff, 2d. per pound.

Sugar.—Sugar also was placed on the free list in 1907, prior to which the duty was 15d. per pound. Refined sugar of foreign origin was charged 15d. per pound under the 1921 tariff, the rate being altered in 1923 to od. and in 1924 to 14d. irrespective of origin. The duty on refined sugar was increased to 15d. per pound in 1931, and raw sugar was made dutiable at 15d. per pound. Raw sugar imported for refining at Auckland enters free of duty under bond, an excise duty of 15d. per pound being levied on the refined products. An additional 1d. per pound on both refined and raw sugar was imposed as from 9 February 1933.

Tobacco.—Prior to the imposition of special war taxation in 1939 the duties on tobacco were as follows: cigarettes, exceeding in weight 2½ lb. per 1,000, 10s. 6d. per pound; cigars, not exceeding 2½ lb. per 1,000, 25s. 6d. per 1,000; cigars, 12s. per pound under the British preferential tariff and 14s. or 16s. under the general tariff; manufactured tobacco, cut, 6s. 10d. per pound, and plug, 6s. 8d. per pound; unmanufactured tobacco for the manufacture of cigarettes, 3s. per pound; and unmanufactured tobacco for the manufacture of tobacco, cigars, or snuff, 2s. per pound. In order to assist in financing the expenses of the war, further duties, in addition to those set out above, and equal to 25 per cent of the duties, were levied as from 27 September 1939. As from 1 May 1942 this war impost was replaced by the following specific duties additional to the ordinary revenue rates quoted above: Cigarettes, exceeding 2½ lb. per 1,000, 8s. per pound; cigars, not exceeding 2½ lb. per 1,000, 20s. 6d. per 1,000; cigars, cut and plug, 7s. 2d. per pound; tobacco, unmanufactured, for cigarettes, 9d. per pound; tobacco, unmanufactured, for the manufacture of tobacco, 6d. per pound. As from 31 October 1947 the duties on unmanufactured tobacco were consolidated and the one rate of 3s. 9d. per pound applied to all unmanufactured tobacco imported for manufacturing purposes in a bonded tobacco factory. As from 26 July 1948 surtax was removed from the duty on all cigarettes and unmanufactured tobacco imported from most-favoured nations or from any British Commonwealth country. On 26 September 1952 an additional duty of 2s. per pound plus 10 per cent *ad valorem* was imposed on cigars imported from all sources, and an exemption from all duty was provided for unmanufactured tobacco imported for manufacturing cigars in a bonded tobacco factory. A duty of 15d. British preferential tariff or 15d. general tariff is levied on each sixty cigarette tubes or papers or the equivalent thereof. The excise duties on tobacco, etc., made in New Zealand are shown later under "Excise Duties".

Alcoholic Beverages.—Prior to the imposition in 1939 of special taxation for war purposes the rate of duty payable at most spirituous beverages was 40s. per proof gallon, except rum of foreign origin, which was dutiable at 44s. per proof gallon. Sparking wine was liable to a duty of 10s. per gallon under the British preferential tariff, 9s. 6d. under the trade agreement with the Union of South Africa, and 13s. or 15s. under the general tariff. Australian and South African still wines were liable to a duty of 5s. 6d. per gallon, the duty under the British preferential tariff was 4s. 4s. and under the general tariff, 6s. The duty on imported beer was 1s. 9d. per gallon under the British preferential tariff, and 3s. under the general tariff. In order to assist in financing the expenses of the war further duties, in addition to those set out above, and equal to 15 per cent of the duties, were levied as from 27 September 1939; these were increased to 50 per cent as from 1 May 1942, except in the case of beer, on which the additional duty is 1s. 3d. per gallon.

On 26 July 1948 rum, brandy, and gin imported from British Commonwealth countries and most-favoured nations were exempted from surtax and a special most-favoured-nation rate of 15s. per gallon (including the additional 1942 duty) was established for champagne. The excise duty on beer produced in New Zealand is given under "Excise Duties".

Apparel.—Most apparel, except that made to the order or measurement of a New Zealand resident which is liable to duty at the rate of 40 per cent under the British preferential tariff, pays duty at the rate of 20 per cent or 25 per cent under the British preferential tariff and 65 per cent under the general tariff. The duties on apparel of Canadian and Australian origin vary from the British preferential rates to 40 per cent, 45 per cent, and 55 per cent.

Timber.—A review of the rates of duty imposed is given on pages 271–2 of the 1951–52 Year-Book. The duties on coniferous timbers, other than dressed, were suspended from 9 November 1951.

Textiles.—Piece-goods of cotton, silk, or artificial silk are in general admitted free and liable to 15 per cent under the British preferential tariff and liable to 15 per cent from foreign sources. Dress, curtain, and similar nets are dutiable at 15 per cent British preferential and 35 per cent most-favoured-nation tariff. For woollen piece-goods, other than moquettes, the rates are 20 per cent and 40 per cent respectively.

Motor Vehicles.—Motor vehicles imported in an unassembled or completely knocked-down condition are dutiable at 5 per cent under the British preferential tariff, 40 per cent under the most-favoured-nation tariff, and 50 per cent under the general tariff. Assembled motor vehicles are subject to a duty of 15 per cent, if admissible under the British preferential tariff, 50 per cent under the most-favoured-nation tariff, and 60 per cent if liable to the general tariff. Rates intermediate between the British preferential and the most-favoured-nation tariffs apply to vehicles of substantially Canadian origin.

Tires for Motor Vehicles.—Previously dutiable at 10 per cent *ad valorem* under the British preferential tariff and 40 per cent under the general tariff, these were in 1934 made subject to a duty based on the weight of the tires. Pneumatic rubber tires for motor vehicles, inner tubes, and moulded rubber strip for repair of such tires are now dutiable at 26d. per pound under the British preferential tariff and 8d. per pound under the general tariff. Solid rubber tires are liable to a duty of 1d. per pound and 4d. per pound under the British preferential and general tariffs respectively.

Motor Spirits.—Towards the end of 1927 the Motor Spirits Taxation Act of that year imposed a duty of 4d. per gallon (increased in 1930 to 6d.) on motor spirits. The proceeds of this tax were devoted to roading purposes. In 1931 and 1933 an increase in duty of 2d. per gallon in each year was made, and an additional 4d. per gallon duty was imposed as from 2 August 1939. The total duty on motor spirits remained at 1s. 2d. per gallon (plus a surtax of one-twentieth of the duty if of foreign origin) until 3 September 1951, when it was reduced by 2d. per gallon. On 4 December 1951 the surtax was made payable also on motor spirits of British origin. The tax on motor spirits was raised to 1s. 3d. per gallon from 26 November 1953, all of which is to be devoted to roading purposes, as from 1 April 1954.

PROHIBITED AND RESTRICTED IMPORTS.—Full particulars of the goods which are prohibited or restricted from being imported into New Zealand are contained in the publication entitled "The Customs Tariff of New Zealand."

The Import Control Regulations 1938 (made by Order in Council of 5 December 1938) prohibit the importation of any goods except in pursuance of a licence under the regulations or of an exemption granted by the Minister of Customs. A considerable number of items were exempted from import licensing during 1950 and 1951, and of approximately 1,000 items in the earlier import licensing schedules only 296 remained in the 1953 schedule. Some of these items were residual portions only of items appearing in the previous schedules (see page 273).

EXCISE DUTIES.—An important excise duty is that on beer, which up to 1915 was charged at the rate of 3d. per gallon. In that year the beer duty was altered so as to increase according to the specific gravity of the worts used, the rate being 33sd. per gallon when the specific gravity did not exceed 1.047, and increasing by 1d. per gallon for every unit of specific gravity up to 1.055, and by ½d. thereafter. On 2 August 1917 the minimum rate of duty for beer was increased from 33sd. to 43sd. per gallon, and further (on 15 September 1917) to 53sd., with a maximum of 6d. per gallon. In 1921 a rate of 1½d. per gallon (increased to 1s. in 1930, and to 1s. 6d. in 1931) was imposed when the specific gravity of the worts used did not exceed 1.047, the rate being increased by 1d. for every unit of specific gravity above 1.047. The basic rate of excise duty on beer was reduced from 1s. 6d. to 1s. 3d. per gallon by the Customs Acts Amendment Act 1934, but was increased to 1s. 9d. per gallon as from 2 August 1939. In order to assist in financing the expenses of the war a further increase to 2s. per gallon was made as from 27 September 1939. The duty was again increased on 11 May 1942, when provision was also made for a lower alcoholic content. When the specific gravity of the worts was 1.036 the new duty was 5s. per gallon, rising by 1d. for every unit of specific gravity above, and falling by 1d. for every unit below, 1.036, but subject to a minimum of 2s. 3d. per gallon. These duties were further amended as from 22 August 1947 by abolishing the reduction of 1d. in the basic duty for every unit of specific gravity below 1.036, so that the duty is now 3s. per gallon where the specific gravity of the worts does not exceed 1.036, increased by 1d. for every unit of specific gravity above 1.036. The specific gravity of distilled water at 60° F. is taken as 1.000, and the specific gravity of the worts is determined in relation thereto.

Prior to the introduction of special taxation for war purposes, cut tobacco was charged an excise duty of 4s. 6d. per pound; other tobacco, 4s. 4d. per pound. Cigars and snuff paid 6s. per pound, and the excise duty on cigarettes made in New Zealand was 13s. 6d. per 1,000 on cigarettes not exceeding in weight 2½ lb. per 1,000, and 5s. 6d. per pound on cigarettes over 2½lb. per 1,000. A war surcharge of 25 per cent of the excise duty on tobacco, cigars, cigarettes, and snuff was levied as from 27 September 1939, but this was replaced on 1 May 1942 by additional taxation similar to that imposed on imported tobacco, etc. (see page 318). An excise duty of 15d. is levied on each sixty cigarette tubes or papers or the equivalent thereof.

The Customs Acts Amendment Act 1931 imposed an excise duty of 15d. per pound (increased to 1d. per pound from 9 February 1933) on sugar manufactured in New Zealand.

Excise duties were formerly levied direct on certain manufactures the preparation of which involved the use of a considerable proportion of spirits. In lieu of excise duty on the finished manufactured article, however, a special schedule of duties has been provided since 1921 on imported alcohol used in manufacturing these articles in licensed warehouses. The present rates are: on alcohol used in the manufacture of—perfumed spirits, 36s. per proof gallon; toilet preparations, 34s.; culinary and flavouring essences, 20s.; medicinal preparations containing more than 50 per cent of proof spirit, 4s. 6d. per gallon. In similar medicinal preparations containing not more than 50 per cent, the alcohol used is duty-free.

EXPORT DUTIES.—The Gold Duty Act of 1858 first imposed an export duty on gold. This duty was amended from time to time and was finally abolished in 1949, there being now no export duty on gold. A summary of the movements on gold duty is available on page 273 of the 1951–52 Year-Book.

An export duty was also imposed on timber (white-pine and kauri) by Acts of 1901 and 1903, and still operates. The present rates of 5s. per 100 superficial feet on logs, and 3s. or 5s. per 100 superficial feet on fitches, were imposed by the Timber Export Duty Order of 23 June 1937. This duty is not payable in respect of sawn timber in smaller sizes.

The Wool Industry Act 1944 provides for a levy on all wool exported or delivered to a wool manufacturer in use in New Zealand, and the proceeds, less cost of collection, etc., are payable to the New Zealand Wool Board established under the Act to enable it to carry out its functions. At the present time, however, the provisions in regard to the payment of the levy are suspended, but an equivalent amount is received by the Board from the contributory charge imposed by the Wool Commission Act 1951 (see Section 20A). Prior to the passing of the Wool Industry Act 1944 a similar levy was payable under the authority of the Wool Industry Promotion Act 1936 on exported wool only.

CUSTOMS REVENUE.—In the earlier years of New Zealand's history the revenue derived from Customs and excise duties represented a greater proportion of the total revenue from taxation than it does today. For a considerable period prior to 1914 there was a constant tendency for this proportion to decrease, and the taxation legislation of the First World War period temporarily accelerated the movement. From 1921–22 to 1925–26 the percentage rose continuously, but did not regain its former proportions. A gradual decline then commenced and, with one slight interruption (1935–36), continued up to and including 1945–46. The low percentages following the year 1938–39 were the result of the huge increase in taxation imposed for war purposes, only a small proportion of which was derived from Customs and excise duties. The amount of war taxation received by way of Customs and excise duties in 1945–46 was only 45,474,021 out of a total war taxation of 551,416,847. The high figures shown in the last five years are accounted for by a substantial increase in dutiable imports. The figures for the last twenty years are as follows.

Year Ended 31 March	Total Taxation	Customs and Excise Duties		
		Amount	Percentage of Total Taxation	
		£	Per Cent	
1934		21,473,406	7,140,478	33.25
1935		24,739,409	8,094,605	32.72
1936		25,478,598	8,876,203	34.84
1937		31,181,603	10,340,838	33.16
1938		36,798,971	11,737,170	31.90
1939		37,797,904	11,727,224	31.03
1940		44,522,028	11,734,784	26.36

Year Ended 31 March	Total Taxation	Customs and Excise Duties	
		Amount	Percentage of Total Taxation
1941	61,360,840	11,258,370	18.35
1942	68,163,256	10,622,092	15.58
1941	87,940,844	12,142,115	14.03
1944	100,839,484	13,922,574	13.81
1945	108,681,814	14,869,449	13.68
1946	114,954,873	15,682,637	13.64
1947	113,119,046	19,970,492	17.65
1948	122,275,911	28,794,932	23.55
1949	130,440,249	23,666,860	18.14
1950	135,556,319	26,296,873	19.40
1951	157,946,975	28,636,207	18.13
1952	200,549,881	37,873,400	18.88
1953	199,771,075	32,739,907	16.39

The figures for Customs and excise duties are exclusive of fire tax and the highways proportion (6d. per gallon) of the motor-spirits tax, two classes of taxes collected through the Customs and paid to the Consolidated Fund in the years quoted, sums at least equal to these amounts being allocated for road-maintenance purposes. Such taxation is, however, included in total taxation. Figures given under the heading of Customs and excise duties include for 1939-40 and subsequent years the amounts received on account of additional rates imposed on certain commodities for war purposes. Most of these additional rates are still in operation.

The Customs and excise duties received during the last three financial years available are shown in more detail in the next table. The figures have been rounded off to the nearest thousand. Primage duties and surtax are included, but not fire tax or the highways proportion of motor-spirits tax, which do not really represent Customs taxation, although levied on imports and for the sake of convenience collected through the Customs.

	1950-51	1951-52	1952-53*
Customs duties—	£	£	£
Wines and spirits	2,097,000	2,874,000	2,914,000
Cigars, cigarettes, snuff, and tobacco	1,343,000	1,601,000	1,150,000
Motor spirits	5,051,000	4,411,000	4,649,000
Other duties, including primage and surtax	8,440,000	16,576,000	11,571,000
Totals, Customs duties	16,931,000	25,462,000	20,084,000
Excise duties—			
Alcohol used in perfumed spirit, etc., in New Zealand	42,000	43,000	46,000
Cigarette papers and tubes	80,000	78,000	93,000
Tobacco, cigars, cigarettes, snuff, New Zealand manufactured	5,747,000	6,335,000	6,350,000
Beer, New Zealand	5,036,000	5,274,000	5,447,000
Sugar	800,000	681,000	720,000
Totals, excise duties	11,705,000	12,411,000	12,656,000
Grand totals, Customs and excise duties	28,636,000	37,873,000	32,740,000
* Provisional.			

Revenue per head of population—	£	s.	d.	£	s.	d.	£	s.	d.
From Customs duties	8	14	9	12	16	7	9	17	2
From excise duties	6	0	9	6	5	1	6	4	2
Totals	14	15	6	19	1	8	16	1	4

PREFERENCE AND RECIPROCTY.—Preference to British Commonwealth countries in respect of certain commodities was provided for in the earliest tariff in force in New Zealand—that introduced in 1841. The amended tariff of 1844 involved the dropping of this preference to British goods, but two years later preference was again introduced.

The first definite attempt at reciprocity was made in 1870, when the Colonial Reciprocity Act gave power to the Government to make reciprocal agreements with the Australian States, including Tasmania; but this Act failed to receive the Royal assent and consequently lapsed.

In 1895, however, the Customs Duties Reciprocity Act received the Royal assent and ratified an agreement which had been tentatively proposed with South Australia, besides giving power to the Government to make further agreements with the other Australian States. In 1907 the New Zealand and South African Customs Treaty was negotiated. A tariff agreement with the Australian Commonwealth has been in operation since 1922, and with Canada since 1932.

Imperial preference proper was introduced in New Zealand by the Preferential and Reciprocal Trade Act 1903, which followed the lead given by Canada. At first only a few items were covered by the extra duties levied upon goods of foreign origin, but the Tariff Act of 1907 extended this additional preferential duty to a great number of items. The effect of the 1921, 1927, 1930, and 1934 tariffs has been to widen the disparity in the duty as between goods of British Commonwealth countries and those of foreign origin. Under the Ottawa agreement New Zealand undertook to preserve the existing margins of preference on United Kingdom goods where the margin of preference did not exceed 20 per cent, and where the margin exceeded that figure not to reduce it below 20 per cent without the consent of the Government of the United Kingdom. In the tariff of 1934, where reductions in duty were made under the British preferential tariff, the rates of duty under the general (foreign) tariff were, except in a few cases, retained.

The following are the classes of goods which are deemed to be the produce or manufacture of countries and which are entitled to be entered for duty at British preferential rates:

- Goods wholly the produce of such countries:
- Goods wholly manufactured in such countries from unmanufactured raw material and/or from one or more of the imported partly manufactured raw materials which are enumerated in the regulations:
- Goods partially manufactured in such countries, provided that the final process of manufacture has been performed in such countries, and also that the expenditure in material produced in such countries and/or labour performed within such countries in each and every article is not less than one-half of the factory or works cost of such article in its finished state.

The conditions applying to British Commonwealth countries, the products of which are admissible under the British preferential tariff pursuant to agreements made by New Zealand with such countries, may be varied to suit the provisions of such agreements.

Prior to 1 April 1926 the minimum mentioned in paragraph (c), which is now one-half, was one-fourth.

In the calculation of the proportion of produce or labour none of the following items is to be included or considered:

- Manufacturer's profit, or the profit or remuneration of any trader, agent, broker, or other person dealing in the article in its finished condition:
- Royalties payable in respect of the finished goods:
- The cost of outside packages or any cost of packing the goods therein:
- Administrative and general office expenses:
- Any cost of conveying, insuring, or shipping the goods subsequent to their manufacture:
- Any other charges incurred subsequent to the completion of the manufacture of the goods.

Tea to be free of duty must have been grown in some part of the British Commonwealth, and the final process of manufacture must also have been performed in some country of the British Commonwealth.

Under the reciprocal trade agreements with Australia and Canada discussed hereunder, the duties on certain items are sometimes higher than the corresponding duties under the British preferential tariff.

Reciprocity with the Union of South Africa.—As already stated, there was inaugurated in 1907 a reciprocal arrangement with the Union of South Africa whereby products of that country, when imported direct, were admitted into New Zealand at reduced rates of duty, in return for similar concessions granted by South Africa in respect of New Zealand products. This agreement was revised in 1922, the duties on wines being increased, and tobacco being deleted from the list. A further alteration, whereby maize and dried apples were deleted from the list, was made in 1925. Dried fruits formerly came under the agreement, being admitted free when the general tariff was 4d. per pound and the British preferential rate 2d. On 1 January 1934, however, the general tariff was reduced to 2d. and the British rate made free.

The items specially provided for in the agreement were feathers, fish, fresh fruit, dried fruit, tea, and wine; while in the case of all other dutiable goods, with the exception of spirits and tobacco, a reduction of 3 per cent of the duty payable was made.

The legislation giving effect to the arrangement with the Union of South Africa was revoked by the General Agreement on Tariffs and Trade Act 1948, although that Act provides for the continuation of most of the concessions previously granted, an exception being the reduction of 3 per cent of the duty formerly granted.

The following table shows the merchandise trade with the Union of South Africa during the eleven years ended in 1952.

Year	Merchandise Imports		Merchandise Exports to Union of South Africa	
	From Union of South Africa	Of Union of South Africa Origin	£	£
1942	207,426	210,173	19,521	
1943	91,273	93,389	26,882	
1944	82,356	86,881	48,033	
1945	237,849	247,035	193,899	
1946	221,582	220,866	59,161	
1947	490,345	494,861	65,064	
1948	748,044	725,151	89,053	
1949	452,016	472,805	132,934	
1950	939,877	985,118	280,742	
1951	1,612,663	1,719,643	268,725	
1952	1,205,894	1,251,663	557,847	

Reciprocity with Australia.—A trade agreement between Australia and New Zealand was first entered into on 11 April 1922. Under this agreement each country granted to goods of the other the benefits of its British preferential tariff, except with regard to certain classes of goods on which special rates were fixed.

During 1933 a Minister of the Commonwealth Government visited New Zealand to discuss the commercial relations between the two countries. A provisional agreement was reached in April 1933, and confirmed by the Trade Agreement (New Zealand and Australia) Ratification Act 1933. The new agreement came into operation from 1 December 1933.

The agreement provided for lower duties than those under the British preferential tariff on many lines of New Zealand products entering Australia—e.g., fresh and frozen fish and fish pastes; dried peas; hay; chaff; fresh, smoked, and preserved meats; onions; lucerne seed; wine; furs; hats; caps; floor rugs; various agricultural and dairying implements; whale oil; cascin; sugar of milk; and timber.

Article X of the agreement sets out the conditions under which goods are regarded as the produce or manufacture of Australia or New Zealand.

Article IX provides that, where with respect to any goods not specially enumerated in the agreement the rate of duty thereon under the New Zealand British preferential tariff is less than the duty under the Australian British preferential tariff, the New Zealand Government may request the Australian Government to admit into the Commonwealth, New Zealand produced goods of such class at the rate of duty chargeable on goods of that class under the New Zealand British preferential tariff. If within three calendar months after the receipt of the request the Australian Government does not comply therewith, the New Zealand Government may, without further notice, impose on such goods of Australian origin a rate of duty not being greater than the rate of duty for the time being in force in Australia on the like goods under the Australian British preferential tariff. A similar provision is made with respect to the admission of Australian produced goods into New Zealand.

The rates of duty payable on Australian goods imported into New Zealand and not specifically mentioned in the agreement are automatically affected by changes in the New Zealand British preferential tariff. A modification of the agreement was made in May 1935, whereunder the duty on certain Australian goods which would otherwise have been reduced or removed from 1 June 1935, following changes made in the British preferential tariff by the Customs Acts Amendment Act 1934, remained unaltered.

The duties on many Australian goods were increased as from 1 March 1938 by an Order in Council made on 26 February 1938, while the duties on fresh grapes, canned pineapples, slippers, boots and shoes, and certain types of refrigerating units were reduced as from 26 July 1948 by the Trade Agreement (Australia) Order 1948.

Merchandise trade between New Zealand and Australia during the eleven years ended in 1952 has been as follows.

Year	Merchandise Imports		Merchandise Exports to Australia	
	From Australia	Of Australian Origin	£	£
1942	8,789,804	8,142,273	2,717,619	
1943	10,354,786	10,160,380	2,849,125	
1944	10,483,555	10,277,373	3,092,981	
1945	8,651,543	8,326,404	4,195,247	
1946	10,733,495	10,423,886	3,630,750	
1947	15,467,441	14,940,541	4,096,064	
1948	14,904,330	14,307,853	3,954,416	
1949	16,339,423	15,673,651	3,747,746	
1950	19,490,301	19,025,998	4,779,368	
1951	21,940,432	21,254,105	5,112,874	
1952	24,893,628	24,887,193	5,930,237	

Reciprocity with Canada.—From October 1925 reciprocal trade arrangements with respect to certain items of Canada–New Zealand trade were in force, but ceased in May 1930.

Negotiations between the Canadian and New Zealand Governments bore fruit in a trade agreement which came into force in both countries for a period originally of one year, as from 24 May 1932. This agreement has been extended from time to time, and is now to continue in force indefinitely.

By Order in Council dated 21 July 1948 the duties on canned fish and certain types of refrigerating units were reduced as from 26 July 1948, and the duties on slippers, boots and shoes, and motor vehicles were consolidated by the absorption of surtax into the *ad valorem* rate.

Pursuant to the agreement the following rates *inter alia* apply to New Zealand products imported into Canada: butter, 5 cents per pound; cheese, 1 cent per pound; and lamb and mutton, ½ cent per pound; while sausage casings, hides and skins, wool, apples, seeds, kauri gum, and phosphorium fibre are amongst commodities admitted free.

The rates of duty payable in New Zealand on certain imports from Canada are as under: Canned fish, 1 ½d. per pound; silk or artificial silk or nylon stockings, 55 per cent; electric cooking and heating appliances, 30 per cent; certain agricultural implements, 35 per cent; timber, 7s. 6d. or 9s. 6d. (rough sawn) and 19s. (sawn and dressed) per 100 superficial feet. The duty on undressed coniferous

timbers has been suspended since 9 November 1951. Canadian goods not mentioned in the agreement enter New Zealand at the ordinary British preferential rates of duty. In some instances where the British preferential rates of duty were reduced by the 1934 tariff, the rates on certain Canadian goods mentioned in the agreement were also reduced to the British preferential level. Special duties are payable on motor vehicles of Canadian origin, these duties varying according to the Canadian content.

Merchandise trade with Canada during the eleven years ended in 1952 is shown in the following table.

Year	Merchandise Imports		Merchandise Exports to Canada	
	From Canada	Of Canadian Origin	£	£
1942	2,350,018	2,351,262	3,616,646	
1943	11,453,203	11,455,147	4,535,207	
1944	5,103,438	5,104,506	1,939,814	
1945	5,079,026	5,094,253	2,280,862	
1946	4,650,150	4,657,075	2,803,282	
1947	11,580,519	11,610,254	3,059,660	
1948	6,868,949	6,913,710	2,990,814	
1949	4,626,795	4,639,386	2,196,352	
1950	3,622,398	3,568,936	3,556,916	
1951	6,402,784	6,145,269	8,564,989	
1952	8,277,165	8,070,631	5,212,478	
* Includes Newfoundland.				

Other Trade Arrangements.—New Zealand is also a party to certain commercial treaties, conventions, or arrangements with countries outside the Commonwealth. Particulars of the trade agreements with certain European countries are contained in the 1940 and previous issues of the Year-Book, but, owing to the war with Germany and its subsequent effects, these agreements became largely inoperative. In certain instances the agreements referred to became applicable to New Zealand automatically as a member of the British Commonwealth, while in others New Zealand became a party by signifying her willingness to adhere to treaties negotiated by the United Kingdom. New Zealand also in some cases entered into agreements with foreign countries by direct negotiation with those countries, among these being Belgium, the Netherlands, and Switzerland, and in others the United Kingdom acted for New Zealand in making trade agreements on her behalf. In some instances the trade involved was insignificant.

On the resumption of normal trade relations after the Second World War most favoured-nation preferences were accorded to the following countries: Argentina, Belgium and Luxembourg, Brazil, China, Czechoslovakia, Egypt, Greece, Netherlands, Norway, Spain, and Sweden, while the agreement with Switzerland provided for similar preferences on certain products only.

The Customs (Tariff Preference and General) Regulations 1936 set out the classes of goods from foreign countries which may be entered at concessional rates of duty applying to any such countries as a result of treaty obligations between New Zealand and such countries, viz:

- a. Goods wholly the produce of such a country;
- b. Goods wholly manufactured in such a country from unmanufactured raw materials;
- c. Goods partially manufactured in such a country, provided (1) that the final process of manufacture has been performed in that country or in any British country the produce or manufactures of which are entitled to be entered under the British preferential tariff; (2) that the expenditure in material the produce of that country, and/or in labour performed in that country, on each and every article is not less than one-half of the factory or works cost of such article in its finished state.

GENERAL AGREEMENT ON TARIFFS AND TRADE (GENEVA).—At its first meeting in February 1946 the Economic and Social Council of the United Nations set up a Preparatory Committee to prepare the ground for an International Conference on Trade and Employment, and New Zealand was appointed a member.

At the Committee's first session in London during October and November 1946, the important step was taken of drawing up a procedure for the negotiation of a multilateral trade agreement embodying tariff concessions by the participating countries.

These tariff negotiations took place during the second session of the Preparatory Committee in Geneva in 1947, and the concessions given by each country were embodied in schedules to a General Agreement on Tariffs and Trade. The tariff negotiations themselves were bilateral but all the concessions were applied multi-laterally, so that New Zealand receives the benefit of reductions made by all participants, and, conversely, New Zealand's concessions apply to all the other countries which took part. In addition, the existing commitments to countries mentioned earlier that they should receive most-favoured-nation treatment required that the benefits should be extended to them even though some of these countries did not adhere to the General Agreement. Where they did adhere the Agreement superseded the existing arrangements.

Concessions are of two kinds—actual reductions of duties and bindings of duties against increase.

The Agreement, which provides for concessions under both the British preferential and most-favoured-nation tariffs, was applied provisionally by New Zealand on 26 July 1948.

Further negotiations took place at Anney (1949) and Torquay (1950-51).

The foreign countries to whose products the concessional rates of duty apply (i.e., the most-favoured nations) were proclaimed in the General Agreement on Tariffs and Trade Provisional Application Order 1948, and with later additions and deletions are now as follows: Argentina, Austria, Belgium (including overseas territories), Brazil, Chile, China, Cuba, Czechoslovakia, Denmark, Dominican Republic, Egypt, Federal Republic of Germany, Finland, France (including overseas territories), Greece, Haiti, Italy, Liberia, Luxembourg, Netherlands (including overseas territories), Nicaragua, Norway, Peru, Republic of the United States of Indonesia, Spain, Sweden, Turkey, United States of America, Uruguay.

Some of the more important products of those countries in respect of which concessions have been made are as follows: onions; tea; raw coffee; raisins; oranges; certain canned fruits; spices; sago; matches; tapioca; cornflour; cigars; cigarettes; tobacco; rum; brandy; gin; wines; flavouring essences; surgical and dental instruments; carpets; linoleum; lace; sewing cotton; woollen piece-goods; belting for machinery; leather manufactures; glassware; clocks; fancy goods; toys; sporting requisites; certain musical instruments; gramophones; cameras and photographic goods; toilet preparations; tobacco pipes; paperhangings; certain types of paper; adding and accounting machines; cash registers; typewriters; duplicating machines; certain lawn mowers, power operated; engines for motor cycles, other motor vehicles, and tractors; certain electrical machinery and appliances; certain mining and quarrying machinery; tractors; certain industrial machinery; refrigerators; hardware; wire; certain pipes and tubes; wire netting; bicycles; motor cycles; motor vehicles; certain timbers.

Chapter 11. SECTION 11—SHIPPING AND TRADE OF PORTS

Table of Contents

THE tonnage of all shipping arriving at or departing from New Zealand ports is recorded by the Customs authorities. On the arrival or departure of an overseas merchant vessel, foreign or coastwise, the master or owner must "enter" or "clear" the vessel with the Collector of Customs of the port concerned. The movement of coastal shipping is similarly recorded.

The figures given in this section include all registered merchant vessels trading at New Zealand ports; thus they exclude naval vessels when engaged in their normal duties, private launches, lighters engaged in loading or unloading vessels in roadsteads, trawlers and other fishing vessels, and yachts when not employed in trading. Merchant vessels used in the transport of troops are included.

OVERSEAS SHIPPING.—In recording the following statistics only one entry and one clearance is counted for each voyage: at the first port of call and the port of final departure, regardless of the number of ports visited by the vessel while in New Zealand waters.

However, statistics are also compiled (see page 330) showing the relative overseas trade of the various ports, wherein every overseas vessel is recorded, whether entered or cleared, overseas or coastwise.

The following table gives the number and net tonnage of overseas vessels entering and clearing New Zealand ports during the years 1942-52, distinguishing those entered and cleared "with cargo" (cargo manifest tonnages are also shown for these) from those "in ballast."

Year	With Cargo			In Ballast [†]			Total	
	Vessels	Net Tonnage	Cargo Manifest Tonnage [*]	Vessels	Net Tonnage	Vessels	Net Tonnage	
			<i>Entered</i>					
1942	363	1,414,652	1,975,601	155	883,507	518	2,298,139	
1943	320	1,230,295	1,916,239	161	834,199	481	2,064,494	
1944	295	1,067,532	1,815,514	151	721,155	446	1,788,687	
1945	275	1,096,385	1,712,923	138	722,574	413	1,818,959	
1946	344	1,485,419	2,097,037	118	656,107	462	2,141,526	
1947	414	1,812,703	2,822,520	52	245,288	466	2,057,991	
1948	446	1,857,825	2,758,418	60	279,656	506	2,137,481	
1949	509	2,186,692	3,100,368	54	285,964	563	2,472,656	
1950	549	2,464,093	3,492,032	48	224,130	597	2,688,223	
1951	502	2,316,344	3,641,667	44	236,465	546	2,552,809	
1952	652	2,759,949	4,400,254	52	268,081	704	3,028,030	
			<i>Cleared</i>					
1942	292	1,319,805	1,042,464	225	969,656	517	2,289,461	
1943	250	1,019,390	971,492	222	1,026,888	472	2,046,278	
1944	227	918,463	855,360	230	864,523	457	1,782,986	
1945	255	1,108,877	891,347	158	727,850	413	1,836,727	
1946	284	1,343,658	1,044,616	151	689,169	435	2,032,827	
1947	296	1,285,440	1,077,184	167	769,243	463	2,054,683	
1948	330	1,420,401	1,118,493	164	721,910	494	2,142,311	
1949	382	1,703,993	1,033,725	174	740,975	556	2,444,968	
1950	363	1,713,242	1,163,934	212	911,647	575	2,624,889	
1951	332	1,561,642	1,129,629	218	986,398	550	2,548,040	
1952	388	1,774,658	1,173,577	338	1,365,638	726	3,140,296	

^{*} Direct comparisons of import and export tonnages are invalid since the former contain a much higher proportion of goods recorded in "measurement" tons than do the latter.

[†] "In ballast" means (a) inwards—"having no cargo for discharge in New Zealand"; (b) outwards—"having no cargo loaded in New Zealand."

The ballast figures include vessels embarking and disembarking passengers only, or entering for, or clearing with, bunkers and stores only, as well as the normal ballast movement.

Ports of Arrival and Departure.—The next table shows the extent to which various ports were made the first port of arrival or the last port of departure by overseas vessels during the last three years. The figures should not be regarded as indicating the relative overseas trade of the various ports.

Port	Entered			Cleared		
	1950	1951	1952	1950	1951	1952
	Net Tons	Net Tons	Net Tons	Net Tons	Net Tons	Net Tons
Auckland	1,190,936	1,273,871	1,469,579	994,137	880,283	1,202,285
Tauranga	6	2,474	5,723	13,028	8,851	
Gisborne	328		6,732		12,024	
Napier	84,516	37,737	54,453	99,464	126,371	109,883
New Plymouth	96,450	107,887	131,096	74,317	76,940	80,589
Wanganui			221			
Wellington	954,332	768,445	888,480	979,887	933,205	1,128,749
Pictou		2,214				
Nelson	265	11,455	7,300	19,328	18,434	10,686
Westport	79	155	310	155	4,191	4,473
Greymouth	155		1,000	2,561		1,000
Lyttelton	223,350	191,721	286,870	180,816	137,491	250,273
Timaru	31,582	24,737	40,702	24,851	39,336	45,172
Oamaru			2,658			3,946
Dunedin	79,401	95,605	112,419	163,669	239,953	250,972
Bluff	26,823	38,982	23,736	79,981	78,808	113,393
Totals	2,688,223	2,552,809	3,028,030	2,624,889	2,548,040	3,140,296

Figures for the last three years show that 79 per cent of overseas vessels (on a tonnage basis) arriving in New Zealand made Auckland or Wellington their first port of entry.

For the same period, and again on a tonnage basis, 72 per cent of overseas vessels finally departing from New Zealand were cleared from either Auckland or Wellington.

Direction of Overseas Shipping.—Particulars of the number and net tonnage of vessels entered and cleared between New Zealand and various countries during 1951 and 1952 are given in the following table.

—	1951				1952			
	Entered		Cleared		Entered		Cleared	
	No.	Net Tonnage	No.	Net Tonnage	No.	Net Tonnage	No.	Net Tonnage
United Kingdom	114	716,810	134	882,116	147	914,480	143	949,784
British Borneo	14	76,786	12	62,652	5	28,168	3	15,371
Republic of India	9	38,886	4	12,256	5	17,992	9	34,668
Malaya and Singapore	23	117,780	5	24,993	27	142,181	6	34,453
Union of South Africa	5	26,622			6	34,123	11	4,453
Canada	18	102,304	19	99,786	19	96,577	20	107,795
Australia	174	686,668	181	656,961	252	821,337	275	887,737
Fiji	14	47,519	18	40,880	28	79,616	27	71,483
Gilbert and Ellice Islands	9	38,251	9	37,256	13	44,469	18	69,793
Nauru Island	33	129,956	38	151,768	54	194,239	49	170,247
Belgium	2	8,646			6	20,628		
France			5	16,956	3	15,528	7	25,067
Bahrain Island	11	67,975	12	67,659	15	87,540	24	135,450
Iran	16	86,396	11	59,112				
Indonesia	9	50,879	13	72,765	17	96,264	17	102,673
Japan	14	39,342	11	24,884	14	39,777	15	48,502
Egypt			2	8,127			2	8,157
Portuguese East Africa	2	8,517			1	5,126		
Tunisia	6	23,237			2	5,658		
Netherlands Antilles	6	31,855	12	68,908	8	44,235	19	105,042
United States of America	39	166,467	28	133,979	41	191,110	35	144,362
Tuamotu Archipelago			2	9,234			2	4,602
Other countries	28	87,913	34	117,748	41	148,982	54	220,657
Totals	546	2,552,809	550	2,548,040	704	3,028,030	726	3,140,296

The net tonnage of all vessels entered in 1952 showed an increase of 20 per cent on the previous year and the number of vessels an increase of 32 per cent.

The tonnage entered from the United Kingdom showed an increase in 1952 over the previous year of 28 per cent, while clearances for the United Kingdom were 8 per cent above the 1951 figures. The tonnages entering from and clearing to the United Kingdom were the highest for any individual country and represented 30 per cent of the respective totals.

The next table shows the net tonnage of shipping between New Zealand and certain principal countries for the five years 1948-52.

Year	Australia	United Kingdom	United States of America	Canada	Pacific Islands
	<i>Entered (Net Tons)</i>				
1948	655,447	478,149		178,161	72,622
1949	857,139	531,641		176,403	97,811
1950	896,546	701,294		136,075	93,661
1951	686,668	716,810		166,467	102,304
1952	821,337	914,480		191,110	96,577
	<i>Cleared (Net Tons)</i>				
1948	609,602	792,437		160,321	50,432
1949	774,430	856,209		166,396	58,154
1950	805,745	870,352		67,234	70,417
1951	656,961	882,116		133,979	99,786
1952	887,737	949,784		144,362	107,795

Nationality of Overseas Shipping.—The table following shows the nationality of vessels arriving in New Zealand during the years 1948-52. Vessels registered in the United Kingdom represented 53 per cent of the total tonnage recorded in 1952, the remaining British Commonwealth countries accounted for 27 per cent and other countries for 20 per cent.

A feature of the table is the relatively small totals shown for shipping registered in New Zealand, the figures for which were considerably higher prior to the Second World War.

OVERSEAS SHIPPING INWARDS

Country of Registry	1948	1949	1950	1951	1952
	Net Tons (000)				
British Commonwealth—					
United Kingdom	1,505	1,739	1,848	1,764	1,633
New Zealand	141	262	290	228	388

Country of Registry	1948	1949	1950	1951	1952
Other British Commonwealth	150	171	183	144	190
Cargo	1,584	1,899	2,117	1,924	2,211
Ballast	212	273	204	212	226
Totals, British Commonwealth countries	1,796	2,172	2,321	2,136	2,437
Percentage of total	84	88	86	84	80
Other—					
Norway	77	90	164	130	244
Netherlands	16	7	24	40	65
Panama	56	44	79	114	85
United States of America	135	92	39	38	32
Remaining countries	57	68	61	95	123
Cargo	273	288	347	392	549
Ballast	68	13	20	25	42
Totals, other countries	341	301	367	417	591
Percentage of total	16	12	14	16	20
Grand totals	2,137	2,473	2,688	2,553	3,028

TRADE OF PORTS.—The following matters dealing with the trade of ports are covered below: shipping tonnages, cargo statistics, and transhipments.

Shipping Tonnages.—This section deals with the tonnage recorded by the various ports in New Zealand and includes overseas and coastal shipping, irrespective of whether the former had been entered or cleared overseas or coastwise. Thus overseas vessels have been recorded as overseas arrivals and departures on every visit to a New Zealand port, instead of only at the first port of call and the final port of departure as under the earlier heading.

The movement of overseas and coastal vessels on the New Zealand coast is well illustrated in the following table, which gives the aggregate number and tonnage of the total calls made during each of the years 1942-52.

Year	Overseas Vessels		Coastal Vessels		Total	
	Number	Net Tonnage	Number	Net Tonnage	Number	Net Tonnage
1942	1,666	5,491,688	13,610	3,786,536	15,276	9,278,224
1943	1,379	4,526,542	12,050	4,007,179	13,429	8,533,721
1944	1,083	3,729,631	12,161	3,981,700	13,244	7,711,331
1945	1,088	3,827,780	12,369	3,756,871	13,457	7,584,651
1946	1,191	4,774,613	12,770	3,709,357	13,961	8,483,970
1947	1,144	4,966,088	12,808	4,528,941	13,952	9,495,029
1948	1,173	4,857,982	13,333	4,579,300	14,506	9,437,282
1949	1,482	5,946,332	13,117	4,298,388	14,599	10,244,720
1950	1,529	6,364,068	12,864	4,324,152	14,393	10,688,220
1951	1,397	6,131,367	11,422	3,806,253	12,819	9,937,620
1952	1,820	7,640,410	13,622	4,621,963	15,442	12,262,373

Using the figures for 1939 as a standard pre-war guide to the volume of shipping at New Zealand ports, the war years showed a remarkable decline in the number of vessels and net tonnage, particularly in the overseas section. The 1944 figures for the latter represented a fall of nearly 57 per cent in the number of vessels and 62 per cent in tonnage. In addition to the large decrease in overseas arrivals in the country during the war period, a contributory cause was the limited number of ports visited by overseas vessels, shipping, as a war necessity, being concentrated at the main ports.

Figures for the post-war years show a substantial recovery in both the overseas and coastal trade of ports, although the coastal trade on this basis showed a decrease in 1951 as compared with 1950. This would be mainly accounted for by the waterfront dispute which occurred in the latter year.

The following table shows the average number of calls made by overseas ships arriving in New Zealand, based on total arrivals and total entrances in New Zealand ports.

Overseas Vessels	1939	1945	1948	1949	1950	1951	1952
	Total number entered New Zealand	634	413	506	563	597	546
Total entrances at New Zealand ports	2,490	1,088	1,173	1,482	1,529	1,397	1,820
Average number of calls at New Zealand ports	3.9	2.6	2.3	2.7	2.6	2.6	2.6

This table is only intended to show the reason for the fall in overseas shipping tonnage of ports, and not the actual average calls made. Many vessels—as, for instance, those engaged in the transport of timber and coal, and those merely touching at a New Zealand port while en route between Australia and America—call at only one port in New Zealand; on the other hand, vessels engaged in the United Kingdom trade, which, in the pre-war period, generally called at a number of ports, have curtailed their visits, as evidenced by the figures.

The following table shows for the three years 1950-52 the number and net tonnage of overseas vessels arriving at New Zealand ports, and covers vessels entered overseas or coastwise.

Port	1950		1951		1952	
	Number	Tonnage	Number	Tonnage	Number	Tonnage
Whangarei	5	10,715	6	15,581	5	12,791
Auckland	455	1,713,239	410	1,715,816	502	2,005,101
Onehunga	2	526				
Raglan	1	328				
Tauranga	9	7,745	13	16,550	9	10,896
Gisborne	2	1,066	1	5,068	11	62,647
Napier	71	333,597	66	294,151	82	355,486
New Plymouth	66	312,525	69	323,312	86	357,763
Wanganui					1	221
Wellington	398	1,921,271	357	1,781,277	469	2,145,846
Picton	1	1,340	3	3,910	1	261
Nelson	10	32,418	13	53,725	19	55,244
Westport	10	2,754	13	10,459	17	13,800
Grey mouth	8	4,653	1	1,297	8	8,640
Lytelton	203	906,383	184	845,721	263	1,164,399
Timaru	54	198,155	40	151,538	51	202,651
Oamaru	4	6,392	7	8,256	8	14,846
Dunedin	168	675,965	163	698,930	210	914,464
Bluff	62	229,996	51	205,776	78	315,354
Totals	1,529	6,364,068	1,397	6,131,367	1,820	7,640,410

Overseas vessels are shown to have called at 18 ports in 1950, 16 in 1951, and 17 in 1952. In the pre-war years 1936-38 approximately 24 New Zealand ports were visited by overseas vessels. During the war years the concentration of overseas shipping at the main ports was most marked. This concentration is still noticeable, though now lessened from what it was during those years. This is demonstrated in the following table, which shows the percentages of overseas shipping tonnage recorded at the ports of Wellington, Auckland, and Lytelton for the years 1939 and 1949-52. In 1939 these three ports handled 63 per cent of the overseas shipping tonnage, as compared with 71 per cent in 1949, 1950, and 1951, and 69 per cent in 1952.

Port	1939	1949	1950	1951	1952
Percentage					

Port	1939	1949	1950	1951	1952
Auckland	27.3	26.8	27.0	28.3	26.2
Wellington	24.5	29.3	30.2	28.3	28.1
Other North Island	15.4	9.5	10.5	10.8	10.5
North Island	67.2	65.6	67.7	67.4	64.8
Lytelton	11.3	15.4	14.2	13.9	15.2
Other South Island	21.5	19.0	18.1	18.7	20.0
South Island	32.8	34.4	32.3	32.6	35.2
New Zealand totals	100.0	100.0	100.0	100.0	100.0

The table below shows for the years 1950-52 the total shipping traffic handled inwards at the various ports. Overseas and coastal vessels calling at more than one port in the course of a single voyage have been recorded as entered at every port visited.

Port	1950		1951		1952	
	Number	Tonnage	Number	Tonnage	Number	Tonnage
Parengarenga	154	9,971	151	10,606	166	11,863
Awaniui	154	10,991	126	7,502	193	12,652
Mangonui	60	6,124	48	3,391	81	6,017
Whangaroa	142	12,650	74	5,795	106	8,625
Russell	64	5,591	53	3,709	79	5,281
Hokianga	16	1,223			2	330
Whangarei	1,095	124,470	823	73,145	992	132,565
Auckland	4,566	2,018,050	4,588	2,000,274	5,298	2,362,243
Onehunga	48	12,096	53	12,907	76	20,931
Raglan	17	3,950	15	3,456	15	3,467
Thames	669	18,103	732	28,904	610	22,702
Coromandel	56	2,988	49	2,158	59	3,097
Whitianga	80	1,845	67	1,635	73	2,159
Tauranga	106	20,294	109	32,183	114	26,708
Whakatane	83	8,781	71	7,722	89	9,622
Oponoiki	45	4,738	30	3,060	42	4,320
Tokomaru Bay	84	14,834	56	10,905	75	15,903
Tolaga Bay	17	4,380	21	4,641	23	6,974
Gisborne	174	55,711	166	63,185	167	130,898
Napier	273	385,413	266	349,501	261	421,614
New Plymouth	121	331,928	123	346,651	174	386,346
Patea	96	9,870	67	6,950	109	11,292
Wanganui	235	48,919	180	39,819	287	68,903
Wellington	2,365	3,492,834	1,874	3,144,517	2,373	3,758,490
Picton	363	152,346	389	163,405	362	150,802
Wairau	69	5,272	67	4,888	67	5,644
Nelson	857	316,517	548	254,158	838	349,632
Motueka	187	20,612	133	14,949	229	24,658
Waitapu	60	2,985	41	1,786	44	2,306
Westport	172	148,492	143	140,562	163	148,308
Grey mouth	140	116,393	100	68,777	147	101,588
Hokitika	15	967	7	563		
Lytelton	869	1,959,713	734	1,824,240	978	2,284,674
Timaru	138	259,970	139	225,223	189	295,959
Oamaru	56	47,641	44	36,458	70	58,929
Dunedin	271	757,419	266	762,321	354	1,009,637
Bluff	341	282,438	332	265,354	397	384,209
Half-moon Bay	135	11,711	134	12,410	140	13,025
Totals	14,393	10,688,220	12,819	9,937,620	15,442	12,262,373

In 1952 Wellington ranked as the first port of New Zealand as regards aggregate tonnage of shipping entered, followed by Auckland, Lytelton, Dunedin, Napier, New Plymouth, Bluff, Nelson, and Timaru in that order.

It should be remembered in any comparison of port statistics of shipping tonnages that certain ports are termini of inter-Island passenger services, and this factor adds considerably to the volume of shipping traffic recorded to these ports—viz., Wellington, Lytelton, Picton, and Nelson (up to April 1953).

Cargo Statistics.—In order to obtain statistics of the total trade of each port a system of monthly returns from the various port authorities was instituted in 1922 showing under a number of headings the quantity of goods handled, distinguishing inwards and outwards cargo, coastal and overseas, and transhipments. The resultant statistics show on a tonnage basis the total trade of each port, including all exports, whether placed on the overseas vessel there, sent to a central port for shipment overseas, or despatched coastwise to another port for consumption in New Zealand. No figures were collected during the years 1943-45.

The following table gives a summary of the tonnage of cargo handled at all ports for the years 1942 and 1946 onwards.

Year	Inwards*		Transshipments	Outwards*		Total Tonnage
	Coastal	Overseas		Coastal	Overseas	
	Manifest Tons					
1942	2,182,673	1,980,120	350,430	2,092,338	1,137,440	8,093,431
1946	2,062,883	2,077,881	209,911	2,008,971	1,112,864	7,682,421
1947	2,114,964	2,790,934	231,641	1,943,389	1,099,150	8,411,719
1948	2,034,850	2,956,793	264,056	1,952,114	1,150,385	8,622,254
1949	1,922,339	3,266,667	222,416	1,889,252	1,108,195	8,631,285
1950	1,923,221	3,504,616	225,464	1,901,224	1,203,203	8,983,192
1951	1,649,439	3,810,425	152,839	1,596,387	1,166,135	8,528,064
1952	1,971,925	4,811,147	207,218	1,846,616	1,328,218	10,372,342
* Excluding transshipments.						

The next table shows for each port the total cargo inwards and outwards in 1952. The high proportion of transshipments in the case of Wellington is very noticeable.

Port	Inwards*		Transshipments	Outwards*		Total Tonnage
	Coastal	Overseas		Coastal	Overseas	
	Manifest Tons					
Mangonui	2,503			1,070		3,573
* Excluding transshipments.						

Port	Inwards*		Transhipments	Outwards*		Total Tonnage
	Coastal	Overseas		Coastal	Overseas	
Russell	897			296		1,193
Whangarei	76,354	6,869		112,730		195,953
Auckland	570,970	192,842	37,433	237,458	474,805	3,350,941
Ochunga	27,880		17	43,668	128	71,710
Raglan	7,746			612		8,358
Thames	1,686			379		2,065
Tauranga	15,697	1,936		4,139	8,680	30,452
Whakatane	10,880			9,824		20,704
Opoiki	5,236			2,534		7,760
Tokomaru Bay	2,759			4,411		7,170
Tolaga Bay	1,381			578		1,959
Gisborne	59,026	1,764	131	16,268	8,952	86,272
Napier	67,630	97,518	21,366	8,535	109,369	325,784
New Plymouth	39,380	280,793	1,168	6,078	78,296	406,883
Patea	209			17,816		18,025
Wanganui	69,390			24,149		93,539
Wellington	436,988	1,279,400	139,615	360,269	291,148	2,647,035
Pictou	29,802			30,831		60,633
Wairau	5,667			4,370		10,037
Nelson	97,964	13,841	2,213	59,370	21,564	197,165
Motueka	6,214			19,872		26,086
Waitapu	1,367			1,402		2,769
Westport	6,705			268,446	10,034	285,185
Grey mouth	22,677			201,989	4,179	228,845
Hokitika	267			404		671
Lytelton	208,169	601,877	2,977	254,817	98,123	1,168,940
Timaru	26,942	39,611		52,985	58,237	177,775
Oamaru	4,380	16,887		26,205	3,182	50,654
Dunedin	106,316	413,707	2,298	60,034	64,027	648,680
Bluff	56,638	64,102		13,795	97,494	232,029
Half-moon Bay	2,215			1,282		3,497
Totals	1,971,925	4,811,147	207,218	1,846,616	1,328,218	10,372,342

* Excluding transhipments.

In any consideration of these statistics it is advisable to note that the term "ton" does not invariably denote a weight of 2,240 lb. For a portion only of the goods handled it is practicable to obtain the actual weights involved. In other cases close approximations are made by applying uniform formulae as to the number of bales, cases, sacks, etc., to the ton. In a few instances the tons are "short" tons of 2,000 lb. A considerable portion of trading goods, however, is recorded in "measurement" tons, 40 cubic feet of space being regarded as the equivalent of a ton. As the practice is uniform, comparisons from year to year are not appreciably affected, nor are comparisons between ports, unless there is a radical difference in the class of trade carried on, in which case recourse should be had to consideration of items of trade. Since a much larger proportion of imports are in "measurement" tons, thus artificially swelling the figures, direct comparison of import cargo tonnage with export is invalid.

The penultimate column of the preceding table shows, excluding coastal to overseas transhipments, the quantity of cargo placed on board the overseas vessels at the respective ports, while a table on page 331 shows the number and tonnage of overseas vessels calling at each port. These tables give a good indication of the extent to which each port enters directly into the overseas trade of New Zealand. The following table shows for the year 1952 the total shipments from each port overseas and coastwise (including transhipments) of nine principal commodities exported overseas by New Zealand, and thus shows the extent to which the various ports handle overseas exports, although the goods may be sent outwards coastwise for transhipment at another port.

Port	Wool	Frozen Meat	Canned Meat	Butter	Cheese	Other Milk Products	Tallow	Hides, Skins, and Pelts	Seeds	All Other Goods	Totals
Mangoni	57			464					15	534	1,070
Russell										296	296
Whangarei	300			7,001			183	3	9	105,234	112,730
Auckland	31,351	74,147	19,968	145,861	13,099	99,734	15,982	11,955	395	337,204	749,696
Ochunga	34		30	159		489	12	122	4	42,963	43,813
Raglan	11					125		1		475	612
Thames	2						7			11	359
Tauranga							16				12,803
Whakatane	72			6,472	1,682	30		23		1,545	9,824
Opoiki	131			2,121		47	67	29		139	2,534
Tokomaru Bay	920	2,770					325	263		133	4,411
Tolaga Bay	574									4	578
Gisborne	4,298	8,349	1,795	1,093			1,280	953	67	7,516	25,351
Napier	36,309	45,808	4,625	1,733	921	14	5,706	4,256	97	39,801	139,270
New Plymouth	713	24,662		15,288	32,170	3,984	3,428	1,602		3,695	85,542
Patea				17,810						6	17,816
Wanganui	10,994			367	7,274		133	463		4,918	24,149
Wellington	52,580	76,510	1,018	20,246	48,522	10,614	8,969	12,735	675	559,163	791,032
Pictou	391	3,172		635			261			26,372	30,831
Wairau	177							719		3,474	4,370
Nelson	942	1,842	11	278	5	359	695	259	44	78,712	83,147
Motueka	109		138					55		19,570	19,872
Waitapu	154		1,033					2		213	1,402
Westport							28	11	10	278,431	278,480
Grey mouth			8				1	75	1	206,083	206,168
Hokitika							175			229	404
Lytelton	22,980	31,242	436	12	1,681	1	7,082	6,539	8,885	277,059	355,917
Timaru	14,297	30,275	41	48	756		4,246	1,758	2,078	57,723	111,222
Oamaru					90					29,097	29,387
Dunedin	20,530	20,045	953	165	1,351	412	3,564	2,502	2,790	74,047	126,539
Bluff	19,937	45,668	634	222	11,789	6,267	5,360	2,606	1,466	17,340	111,289
Half-moon Bay	5									1,277	1,282
Totals	217,868	364,490	29,657	202,404	137,944	122,276	57,398	46,115	17,485	2,186,415	3,382,052

Transhipments.—Transhipments of cargo during 1952 totalled 207,218 tons, of which 139,615 tons were transhipped at Wellington. The total manifest tonnage in 1951 was 8,528,064, as compared with 8,983,192 tons in 1950. A factor contributing to this decrease was the prolonged industrial dispute experienced in 1951. In 1952 the total increased to 10,372,342, the highest recorded tonnage to date.

Transhipments fall into the following four classes:

Coastal to Coastal.—Cargo which has been loaded in a vessel at one New Zealand port and is transhipped to another vessel for discharge at another New Zealand port.

Coastal to Overseas.—Cargo which has been loaded in a vessel at a New Zealand port and is transhipped to another vessel for discharge at a port outside New Zealand.

Overseas to Coastal.—Cargo which has come from overseas and is transhipped to another vessel for discharge at a New Zealand port.

Overseas to Overseas.—Cargo which has come from overseas and is transhipped to another vessel for discharge outside New Zealand.

The first class represents purely coastal trade while goods in the last class do not enter New Zealand, but each of the others may be added to the appropriate figures of overseas trade shown previously, to ascertain the total tonnage of goods arriving from or departing overseas. Thus the total inward tonnage from overseas in 1952 was 4,927,639, and the total outward tonnage going overseas 1,402,994. Comparative figures for 1951 were 3,893,795 and 1,218,424 tons respectively. The following table shows for 1951 and 1952 the transhipment trade of each port affected.

Port	Coastal to Coastal		Coastal to Overseas		Overseas to Coastal		Overseas to Overseas		Totals	
	1951	1952	1951	1952	1951	1952	1951	1952	1951	1952
Manifest Tons										
Auckland	1,107	1,010	3,086	3,635	22,647	29,300	4,397	3,488	31,237	37,433
Ochunga	35	17							35	17
Gisborne				131						131
New Plymouth			900	484	279	98	889	1,482	1,668	1,168
Napier	1	39	13,068	9,863	2,520	11,464			15,589	21,366
Wellington	9,624	8,539	34,940	60,326	53,617	70,734	105	16	98,286	139,615
Pictou	66								66	
Nelson	1,076	1,633		80		500			1,076	2,213
Lytelton	576	81	213	723	1,53	2,173			1,942	2,977
Dunedin	95	238	82	18	2,949	2,042			3,126	2,298
Totals	12,580	11,557	52,289	74,776	370	116,492	4,600	4,393	152,839	207,218

The next table shows the various items of merchandise, etc., which comprised the transhipment trade in 1951 and 1952.

Item	Coastal to Coastal		Coastal to Overseas		Overseas to Coastal		Overseas to Overseas		Totals	
	1951	1952	1951	1952	1951	1952	1951	1952	1951	1952
Manifest Tons										
Beans and peas	174	71	1,040	1,421	165	31	1	92	1,380	1,615
Butter	90	167	2,637	1,732					2,727	1,899
Cement							523	318	77	318
Cheese	87		16,238	27,866					16,325	27,866
Coal	2,040	2,001							2,040	2,001
Flour	149	198						20	70	169
Fruit, preserved	52	107	129	42	2,392	2,806	10	4	2,883	2,959
Fruit, fresh	34	2	5,639	13,041	1,775	2,058	247		7,695	15,101
Hides, skins, and pelts	1	2	586	1,553				9	50	596
Manures, artificial	155	103			7,048	3,672			8	7,203
Meat, frozen (beef, mutton, and lamb)	2	1	8,518	6,831					8	8,521
Meat, preserved	3	8	525	2,547					528	2,555
Milk products (other than butter and cheese)	16	52	177	229					193	281
Motor spirits, kerosene, and other fuel oils	444	500			17,578	20,336	1	1,075	18,023	21,911
Oats	89	21			411	3			500	24
Potatoes	101		53			198			154	198
Seeds	17	7	128	485	86	21	1		232	513
Tallow	33		1,478	2,139					1,511	2,139
Timber	29	330	655	675	6,445	10,655	308	30	7,437	11,600
Wines, spirits, and beer	14	25			16	799	1,051	12	37	825
Wool	44	3,276	12,238	14,333					118	12,282
All other goods	9,005	4,686	2,248	1,866	46,671	75,138	3,673	2,832	61,597	84,522
Totals	12,580	11,557	52,289	74,776	83,370	116,492	4,600	4,393	152,839	207,218

Values of Exports and Imports by Ports.—Tables showing the values of exports and imports through the various ports are included in Sections 10B and 10C respectively.

NEW ZEALAND SHIPPING REGISTER.—The number and tonnage of vessels on the New Zealand register at 31 December 1952 were as follows.

Port of Registry	Sailing Vessels			Steam Vessels			Motor Vessels		
	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage
Auckland	35	2,014	1,602	36	8,392	4,059	244	24,673	11,898
Napier				3	989	546	9	3,075	1,523
Wellington	7	70	54	42	106,004	55,756	54	65,523	35,780
Nelson				6	7,279	3,030	14	3,926	1,586
Lytelton				6	2,936	1,077	16	3,251	1,601
Timaru	1	836	836	6	942	488	1	11	3
Dunedin				7	10,463	5,585	11	7,841	4,321
Invercargill				3	1,058	430	9	256	75
Totals	43	2,920	2,492	104	138,263	70,971	358	108,556	56,787

Auckland is the port of registry of the majority of the vessels forming New Zealand's "mosquito" fleet, the average net tonnage of the 315 vessels on the Auckland register being only 55 tons. At Auckland, Wellington, and Dunedin a number of the vessels of the Union Steam Ship Company of New Zealand are registered, while several are also registered in Australia. The figures for vessels registered in New Zealand as at the end of each of the last eleven years are as follows.

Year	Sailing Vessels			Steam and Motor Vessels			Totals		
	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage
1942	45	4,087	3,553	429	175,343	89,623	474	179,430	93,176
1943	45	4,087	3,553	410	159,625	80,606	455	163,712	84,159
1944	45	4,087	3,553	407	159,517	80,552	452	163,604	84,105
1945	45	4,087	3,553	406	159,203	80,376	451	163,290	83,929
1946	44	4,075	3,541	419	161,685	81,728	463	165,760	85,269
1947	45	4,091	3,547	433	181,289	91,542	478	185,380	95,089
1948	43	4,049	3,515	430	190,388	96,655	473	194,437	100,170
1949									

Year	Sailing Vessels			Steam and Motor Vessels			Totals		
	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage	Vessels	Gross Tonnage	Net Tonnage
1951	43	3,761	3,281	460	249,781	128,622	503	253,542	131,903
1952	43	2,920	2,492	462	246,819	127,758	505	249,739	130,250

In the next table vessels registered in New Zealand at the end of 1952 have been classified according to whether employed in the coastal or the foreign trade. The totals given therein do not agree with those shown above, as vessels employed exclusively within "restricted limits" and pleasure vessels are not included. The total number of vessels so engaged was 171 of an aggregate net tonnage of 117,146, as compared with 186 vessels and 83,832 tons in 1939.

Size of Vessel	Employed in the Coastal Trade Only		Employed Partly in the Coastal and Partly in the Foreign Trade		Employed in the Foreign Trade Only	
	Number of Vessels	Net Tonnage	Number of Vessels	Net Tonnage	Number of Vessels	Net Tonnage
Under 50 tons	41	777				
50 and under 100 tons	25	1,783				
100 and under 200 tons	27	3,665	1	155		
200 and under 300 tons	6	1,542				
300 and under 400 tons	12	4,194	1	368		383
400 and under 600 tons	4	1,929				
600 and under 800 tons	6	4,448				753
800 and under 1,000 tons	1	925				
1,000 and under 1,200 tons	3	3,308	1	1,100		
1,200 and under 1,500 tons	8	10,636	4	5,257		1,293
1,500 and under 2,000 tons	5	8,367	5	9,898	4	7,546
2,000 tons and over	2	6,023			12	42,789
Totals	140	47,604	12	16,778	19	52,764

MARINE OFFICERS' CERTIFICATES.—The examinations for masters, mates, and engineers serving in the Mercantile Marine are conducted by the Marine Department, the regulations relating to these examinations being based upon those of the United Kingdom Ministry of Transport with such modifications as are necessitated by local conditions. The Ministry of Transport recognizes the following certificates as of Imperial validity: extra master, master, first mate and second mate foreign-going ships, first and second class steam and motor engineers. It is a condition of such recognition that candidates must possess service qualifications and pass examinations similar and not inferior to those prescribed by the Ministry of Transport.

New regulations for the examination of masters and mates came into force on 1 August 1952 and those for marine engineers on 1 October 1939. Both sets of regulations provided for partial passes—i.e., the examination may be taken in two parts.

During the year ended 31 March 1953, 182 examinations were held for certificates as masters and mates. A summary of these examinations is as follows: of the 103 who passed in their examinations, 47 passed for certificates as masters and mates of foreign-going ships, 23 for masters and mates of home-trade ships, 9 as masters of river steamers, 22 as masters of oil-engine vessels under six tons register, 1 for voluntary examination in compass deviation, and 1 for yacht master, New Zealand waters.

A summary of the examinations of marine engineers held during the year ended 31 March 1953 is as follows: 211 candidates presented themselves for certificates of Imperial validity, of whom 58 passed and 61 secured partial passes. There were 17 examinations for certificates of New Zealand validity only, and 124 were successful in their examinations, which included 69 for third class steam engineer, 2 for river steam engineer, 36 for first and second class coastal motor engineer, and 17 for river oil engineers' certificates.

SURVEY OF SHIPS.—Survey certificates were issued during the year ended 31 March 1953 for 4 passenger foreign-going ships, 5 foreign-going cargo steam ships, 12 foreign-going cargo motor ships, 4 home-trade passenger steam ships, 25 home-trade cargo steam ships, 95 home-trade cargo motor ships, 35 restricted-limits steam ships, and 276 restricted-limits motor ships. A total of 404 surveys were made for seaworthiness, efficiency of equipment, tonnage, radio telegraphy, etc.

LIGHTHOUSES.—Along the New Zealand coast there are sixty-two coastal lights of various types. In twenty-eight cases the lights are watch or attended lights and the apparatus is classed as of the dioptric order—i.e., a central lamp sending its ray through a combination of surrounding lenses—while the remaining thirty-four coastal lights, exclusive of harbour-entrance lights, are automatic lights. The buildings housing the lights are of varying kinds, as necessitated by their respective situations.

Fog signals of the diaphone type are established on Tiri Tiri Island, at Pencarrow Head, Godley Head, and Taiaroa Head; while radio beacons have been established at Cape Reinga, Tiri Tiri Island, Portland Island, Cuvier Island, Mokohinau, Baring Head, Stephen's Island, Cape Campbell, and Puysegur Point.

The most powerful light is that of Stephen's Island, which, placed some 600 ft. above high water, is visible at a distance of 32 nautical miles. Next in order come Cape Reinga (altitude 542 ft.), visibility 31 miles; Cape Brett (altitude 490 ft.) and East Cape (505 ft.), both visible at 30 miles; Cuvier Island (altitude 390 ft.) and Mokohinau (altitude 400 ft.), both of which have a visibility of 26 miles; Godley Head (altitude 317 ft.) and Portland Island (altitude 300 ft.), both visible at 24 miles. Nine other lights have a range of 20 miles or over, being Centine Island, Baring Head, Kaipara (North Head), and Akaosa, all 25 miles; Cape Pulliser, Brothers, and Nugget Point, all 22 miles; Tiri Tiri Muturangi and Cape Saunders, 20 miles each. The remaining 11 watched lights have visibilities as follows, the distance being recorded in miles: Moeraki and Castlepoint, 19 each; Manukau (South Head), Cape Campbell, Dog Island, and Puysegur Point, all 18 miles; Kahurangi and Cape Egmont, 16 miles each; Farewell Spit, 15 miles; Waipapa, 14 miles; and French Pass, 8 miles.

All manually-attended coastal lighthouses are equipped with signalling flags and lamps, the keepers being competent to transmit or receive messages. In addition, there are nine of the principal lighthouses equipped with radio-telephone systems of communication. Coastal lights—i.e., those outside the bounds of the various harbour authorities—are maintained by the Marine Department.

The expenditure on all lighthouses under the control of the Marine Department during the year 1952-53 was as follows: salaries and wages, £35,976; stores and general maintenance, £57,228; radio beacons, improvements, etc., £4,679; working expenses of tender, £14; administrative expenses, £6,649; depreciation, £20,019; total, £125,065. Light dues for 1952-53 totalled £111,735, an increase of £8,906 on the previous year.

WRECKS.—In the case of any wreck or shipping casualty in New Zealand waters a Collector of Customs, Superintendent of Mercantile Marine, or other person empowered by the Minister of Marine, institutes an inquiry into the cause and circumstances of such casualty. If necessary, a formal investigation is held by a Magistrate, who has power to cancel or suspend the certificate of any officer from whose wrongful act or default damage has resulted.

Should any wreck occur on the coast, the Receiver of Wrecks for that district, usually an officer of the Customs, has the necessary authority to be used in the preservation of life and property.

The numbers of shipping casualties reported to the Marine Department during the year ended 31 March 1953 is shown in the following table.

Nature of Casualty	On or Near the Coast of New Zealand		Outside New Zealand		Total Number Reported	
	Number of Ships	Registered Tonnage	Number of Ships	Registered Tonnage	Number of Ships	Registered Tonnage
Strandings—						
Total loss	5	158			5	158
Damaged	6	709			6	709
Undamaged	12	8,479	12		24	8,479
Totals, strandings	23	9,346			23	9,346
Collisions—						
Total loss						
Damaged	12	3,520			12	3,520
Undamaged						
Totals, collisions	12	3,520			12	3,520
Fires—						
Total loss	3	18			3	18
Damaged	1	5			1	5
Undamaged						
Totals, fires	4	23			4	23
Miscellaneous—						
Including damage by heavy seas, machinery defects, etc.	6	933	1	367	7	1,300
Grand totals	45	13,822	1	367	46	14,189

There have been no lives lost as a result of shipping casualties in New Zealand waters since the year 1950-51.

Chapter 12. SECTION 12—RAILWAYS

Table of Contents

HISTORY AND DEVELOPMENT.—Railway history in New Zealand dates from the year 1860. In that year a contract was let for the construction of a line from Christchurch to Lyttelton, and the first portion of this line was opened on 1 December 1863. A line from Invercargill to Bluff Harbour was opened on 5 February 1867. The Provincial Council of Auckland in 1863 began the construction of a line from Auckland to Drury.

Although practically the whole of the railways are now State-owned, some were built by private enterprise. Of these the more important were constructed by the Midland and the Wellington-Manawatu Railway Companies.

At 31 March 1880, 1,167 miles of State-owned lines were open for traffic, and at 31 March 1900, 2,104 miles. The rail link between Wellington and Auckland was completed on 3 August 1908, and the first through passenger train left Wellington on 7 August 1908. Daily through express services were not operated until the privately-owned Manawatu line was taken over on 7 December 1908 and the last section from the Public Works Department on 15 February 1909. Total mileage open for traffic at 31 March 1910 was 2,717, a figure which increased by 292 to 3,009 during the next ten years.

The last section of the South Island Main Trunk line from Picton to Bluff was taken over from the Public Works Department on 15 December 1945.

At 31 March 1953 there were 3,535 miles of State railways open for traffic, divided into three distinct sections as follows:

Section	Length (Miles)
North Island main line and branches	1,692
South Island main line and branches	1,783
Nelson	60
Total South Island	1,843

The Christchurch-Lyttelton section of railway, including the Lyttelton Tunnel, was electrified in 1928-29, the Otira-Arthur Pass section, including the Otira Tunnel, in 1923, the Wellington-Johnsonville section in 1938, and the Wellington-Paekakariki section in 1940.

Work is proceeding on the electrification and duplication of the line, approximately 20 miles, between Wellington and Upper Hutt. Portion of this line, between Petone and Haywards, will be re-routed over the Hutt Valley suburban branch line, which is now open to Taia. Electrified services commenced running on this section in October 1953.

A tunnel through the Rimutaka Range in the North Island is under construction, holing through taking place in April 1954. This tunnel, 5 miles 36 chains in length, will be part of a deviation to eliminate the difficult hill section between Upper Hutt and Cross Creek. The proposed route deviates from the existing line at Upper Hutt and links with it again near Featherston. The new section will obviate the use of the special Fell engines and vans, with centre rail equipment, at present operating between Summit and Cross Creek.

New timber and paper mills in the extensive exotic forests of the Putaruru-Taupo district of the North Island are served by the recently completed Tokorua Branch of approximately 18 miles from Putaruru to Kinleith. Similar industries which are to be established in the nearby Kaingaroa Forest - Bay of Plenty area will be served by a branch line of about 40 miles now under construction from Awakaponga to Marurapa; 8 miles of this branch from Awakaponga to Kawerau were opened for traffic on 26 October 1953.

Government railways are constructed by the Ministry of Works and transferred to the Railways Department when completed. The gauge is 3 ft. 6 in. Standard rails for heavy traffic main lines weigh 91 lb. per lineal yard, and for secondary and branch lines 72lb. per yard. At present much of the track is laid to the standards adopted prior to 1950—viz., 85 lb. and 70 lb. rails. Sleepers, 2,400 to the mile, are principally of Australian hardwood and New Zealand silver pine and totara.

ADMINISTRATION.—In the year 1876 the railways of New Zealand passed from the control of the Provincial Governments to the Public Works Department. A few years later the opened lines were handed over to the Working Railways Department, and in 1889 a Board of three Railway Commissioners was appointed. This was the form of management for five years, when a General Manager, responsible to the Minister of Railways, was appointed. Control by a General Manager continued until 1952 except for two short periods of board management, from 1925 to 1928, when a Board of three members was appointed, and from 1931 to 1936, when the Board consisted of five members.

On the recommendation of a Royal Commission appointed on 3 March 1952 to inquire into and report upon all aspects of the New Zealand Government Railways, their future development, and sphere of operations, the Government established a Railways Commission. Five Directors were appointed from 12 January 1953.

COST OF CONSTRUCTION.—The capital cost of State railways as at the end of each of the last five financial years is given below.

—	31 March 1949	31 March 1950	31 March 1951	31 March 1952	31 March 1953
Open for traffic—	£	£	£	£	£
Railway	75,364,182	77,624,303	80,885,096	640,544	88,648,416*
Lake Wakatipu steamer service	20,396	21,878	21,878	22,557	22,557
Subsidiary services	3,401,846	3,895,686	4,075,223	4,353,726	4,648,849
General	9,896	9,896	9,896	9,896	9,896
Totals	78,796,320	81,551,763	84,992,093	88,026,723	93,329,718
Works under construction	1,371,919	1,738,722	2,282,738	3,168,632	4,654,563
Grand totals	80,168,239	83,290,485	87,274,831	91,195,355	97,984,281
* Equal to £25,077 per mile of open line.					

So varied are the geographical features of New Zealand that a great disparity exists in the cost of constructing the individual sections of lines. Numerous mountain chains and rivers make railway construction in general both difficult and expensive. The Otira Tunnel is 5 miles 26 chains long, and the Rimutaka Tunnel, which is now under construction, is to be 5 miles 36 chains. The length of the longest bridge, over the Rakaiu River, is 5,730 ft., and the largest viaduct, the Mohaka, is 887 ft. long and 318 ft. above water-level.

ROLLING STOCK.—Information as to the rolling stock in use on the State railways as at 31 March 1953 is given in the following table.

Locomotives—		
Tender		488
Tank		166
Electric		28
Diesel electric		13
Diesel shunting		5
Total		700
Passenger vehicles—		
Sleepers		15
Combination day-sleepers		3
First class		135
Second class		1,242
Composite		24
Rail cars		21
Electric multiple units		102
Postal		8
Ambulance		1
Total		1,551
Wagons—		
Horse boxes		Four-wheeled
Cattle		104
Sheep		944
Frozen and chilled meat		3,416
Cool, ventilated		727
Covered goods		1,101
High-side		635
Low-side		20,562
Platform		1,678
		1,103

* In addition there are 5 battery electric shunting locomotives in use in workshops and 56 diesel and petrol shunting tractors in use at stations.

Brake vans	12	455
Other	3,561	348
	32,740	3,347
Total	36,087	
* In addition there are 5 battery electric shunting locomotives in use in workshops and 56 diesel and petrol shunting tractors in use at stations.		

From 1901 to 1939 most of the rolling stock, including carriages, diesel-mechanical rail cars, wagons, and locomotives, was built in the Department's workshops. Special types were imported from England, notably multiple unit electric coaches and the prototypes of electric locomotives.

During the war years the resources of the Railway workshops were directed towards Armed Forces requirements and urgent repairs of rolling stock. Construction programmes consequently fell far behind schedule, and little headway has since been made owing to staff and material shortages.

To alleviate an acute post-war wagon shortage orders were placed in Great Britain for 5,500 general-purpose four-wheeled LA and LC wagons and 2,380 wagons of other classes. Deliveries commenced in 1947, and by November 1953 all had been received for final assembly in New Zealand Railway workshops. Locomotives were also ordered overseas, and recent deliveries were 16 JA steam oil-burning, 7 EW electric, 15 (660 h.p.) diesel-electric, and 11 diesel mechanical shunting locomotives. Still to be supplied are 41 main-line diesel electric locomotives and 71 diesel mechanical shunting locomotives. To provide fast passenger services where traffic warrants, 35 diesel-mechanical twin-car sets are being imported.

The heaviest types of locomotive used in New Zealand have been designed and built in the New Zealand Railway workshops, the K class weighing 140 tons in working trim, the KA 145 tons, and KB (with booster) 146 tons. Twenty-seven locomotives of a programme of 35 class JA (109 tons) have been completed at Hillside. This type is similar to the imported J-class locomotives.

The following steam locomotives of comparatively recent construction haul most of the traffic.

Class	Type	Weight/Tractive Force	
		Tons	lb.
AB	4-6-2 superheated; simple, with tender	87	20,000
G	4-6-2 superheated; simple, with tender	98	25,800
J and JA	4-8-2 superheated; simple, with tender	109	24,920
K	4-8-4 superheated; simple, with tender	140	30,815
KA	4-8-4 superheated; simple, with tender	145	30,815
KB	4-8-4 superheated; simple, with tender (fitted with booster)	146	36,815

Standard carriages are 56 ft. in length, fitted with chair seats to accommodate thirty-one to fifty-six passengers, steam-heated, and lighted by electricity.

REVENUE AND EXPENDITURE.—The total revenue from and expenditure on the railways (including subsidiary services) during each of the years 1942-43 to 1952-53 were as shown below.

Year Ended 31 March	Gross Revenue		Expenditure		Net Revenue	
	£	£	£	£	£	£
1943	14,128,993	11,302,413	2,826,580			
1944	15,325,806	12,757,336	2,567,970			
1945	14,459,750	13,260,277	1,199,473			
1946	15,444,847	14,384,844	1,060,003			
1947	15,680,057	15,944,270	-264,213*			
1948	17,070,872	17,710,897	-640,025*			
1949	18,597,728	19,700,594	-1,102,866*			
1950	19,541,184	20,596,740	-1,055,556*			
1951	22,085,491	22,079,701	5,790			
1952	23,993,186	25,195,674	-1,202,488*			
1953	26,607,937	26,524,665	83,272			
* Loss recovered from Consolidated Fund.						

The expenditure figures do not include interest on capital liability. With £13,234,636 interest added, the 1952-53 profit of £83,272 becomes a loss of £3,040,164.

A sum of £2,107,243 was set aside in 1952-53 for depreciation and track renewals, while expenditure from these funds amounted to £1,541,842. The amounts standing to the credit of the Depreciation and Renewals Accounts at 31 March 1953 were £5,590,332 and £704,025 respectively.

The revenue and expenditure for the last five years, distinguishing between railway operation and other items, are given in the following table.

Year Ended 31 March	Gross Revenue		Expenditure		Net Revenue	
	Railway Operation	Subsidiary Services, etc.	Railway Operation	Subsidiary Services, etc.	Railway Operation	Subsidiary Services, etc.
	£	£	£	£	£	£
1949	15,338,882	3,258,846	16,788,256	2,912,338	-1,449,374*	346,508
1950	16,062,066	3,479,118	17,360,913	3,235,827	-1,298,847*	243,291
1951	18,500,344	3,585,147	18,725,416	3,354,285	-225,072*	230,862
1952	20,097,242	3,895,944	21,515,300	3,680,374	-1,418,058*	215,570
1953	22,588,758	4,019,179	22,755,397	3,769,268	-166,639*	249,911
* Net loss.						

The various subsidiary services now conducted by the Railways Department, with the revenue and expenditure of each during the last two years, are shown below. Full working costs, including interest, are charged against these services, and the interest so charged is taken into miscellaneous receipts as revenue.

Service	Revenue		Expenditure	
	1951-52	1952-53	1951-52	1952-53
	£	£	£	£
Lake Wakatipu steamers	15,594	18,131	21,775	25,570
Refreshment service	346,781	347,395	396,835	386,633
Bookstall service	246,430	252,022	248,823	247,673
Advertising service	61,219	66,673	50,598	53,254
Departmental dwellings	195,751	203,437	461,514	527,457
Leases of bookstalls, etc.	80,646	84,620	72,328	79,645
Road services—Passengers and goods	2,400,301	2,445,404	2,428,501	2,449,036
Miscellaneous receipts	549,222	601,497		
Totals	3,895,944	4,019,179	3,680,374	3,769,268

Revenue.—In the following table the railway operating revenue during 1952-53 and each of the preceding ten years is classified according to the class of traffic, etc., from which it was derived.

Year Ended 31 March	Passenger Fares					Parcels, Luggage, and Mails		Goods and Livestock		Labour, Demurrage, etc.		Totals
	£	£	£	£	£	£	£	£	£	£		
1943	3,710,509		397,142		8,044,563		262,866		12,415,080			
1944	4,275,482		435,928		8,479,387		274,182		13,464,979			
1945	3,504,453		411,021		8,261,087		271,746		12,448,307			

Year Ended 31 March	Passenger Fares	Parcels, Luggage, and Mails	Goods and Livestock	Labour, Demurrage, etc.	Totals
1946	3,912,509		426,619	8,515,673	249,786
1947	3,253,748		440,731	8,903,762	225,543
1948	2,687,767		553,366	10,486,744	236,403
1949	2,759,478		560,593	11,747,129	271,682
1950	2,847,925		480,869	12,434,487	298,785
1951	2,662,987		532,556	14,978,599	355,042
1952	2,264,922		519,468	16,957,810	20,097,242
1953	2,522,883		545,841	19,136,216	383,818

The revenue from passenger fares during the year 1952-53 represented an expenditure on railway travel of £1 5s. 1d. per head of mean population. The total railway operating revenue was equal to £11 4s. 10d. per head.

On 21 June 1953 suburban fares were increased by 10 per cent, while increases varying from 5 per cent to 20 per cent were made in some goods rates, further increases in the latter class, mostly from 5 to 7 per cent, taking effect from 17 January 1954.

Expenditure.—The total railway expenditure in 1952-53 represented 99.69 per cent of the gross earnings, and the operating expenses 100.74 per cent of operating revenue. It is of interest to trace the movement over a series of years, as in the following statement. The figures show the percentage of operating expenditure to operating revenue.

Year Ended 31 March	Per Cent
1933	90.54
1934	86.65
1935	86.98
1936	88.46
1937	91.81
1938	96.05
1939	95.73
1940	90.66
1941	86.72
1942	85.73
1943	80.71
1944	84.41
1945	93.96
1946	95.77
1947	106.40
1948	108.06
1949	109.44
1950	108.09
1951	101.22
1952	107.06
1953	100.74

The operating expenditure under various heads is now given for 1952-53 and for each of the previous ten years.

Year Ended 31 March	Maintenance of Ways and Works		Maintenance of Signals		Maintenance of Rolling Stock		Locomotive Transportation		Traffic Transportation		Head Office and General Charges*		Totals
	£	£	£	£	£	£	£	£	£	£	£		
1943		1,829,311		271,499		2,380,260		2,430,347		2,862,653		245,589	10,019,659
1944		2,146,448		326,190		2,868,006		2,555,956		3,207,782		261,535	11,365,917
1945		2,250,736		332,015		2,839,591		2,473,581		3,460,705		340,267	11,696,895
1946		2,524,485		375,499		3,055,303		2,627,868		3,618,584		347,985	12,549,724
1947		2,466,020		376,458		3,241,139		2,996,016		4,138,817		426,329	13,644,779
1948		2,528,407		426,841		3,298,700		3,786,756		4,550,376		499,011	15,090,091
1949		2,904,028		482,492		3,885,493		4,032,864		4,956,482		526,897	16,788,256
1950		2,966,062		540,074		3,889,152		4,064,901		5,355,345		545,379	17,360,913
1951		3,171,856		566,687		4,217,951		4,605,695		5,615,272		547,955	18,725,416
1952		4,671,869		†		4,582,801		5,322,231		6,341,828		596,571	21,515,300
1953		4,800,452		†		4,795,960		5,914,494		6,640,290		604,201	22,755,397

* Including superannuation subsidy.

† Merged with Maintenance of Ways and Works.

The increase in expenditure in recent years has been due chiefly to an increased wages bill, mainly the result of higher rates of pay and improved conditions of employment, to the high cost of locomotive fuels, and to a general rise in the price of stores. In an endeavour to overcome a hitherto unsatisfactory coal position, the Department was obliged to import coal from overseas and convert seventy-seven locomotives to burn oil fuel. As there were adequate supplies of New Zealand coal during 1952-53 none was imported, and one oil-fired locomotive was reconverted to coal burning.

PASSENGERS AND GOODS.—During the period 1926-33 there was a rapid falling off in passenger journeys, due mainly in the earlier years to intensive motor competition and later to the economic depression. This period was followed by an upward trend as a result of the improvement in economic conditions. After the outbreak of war in 1939 passenger traffic increased sharply, owing to the movement of members of the Armed Forces and to the curtailment of road services and partial immobilization of private motor cars, the result of restrictions placed on the use of motor spirits and rubber tires. Following the cessation of hostilities the number of passenger journeys receded considerably, owing to the large decline in Armed Forces traffic, intensified road and air competition, and, until recently, to the difficulty in obtaining sufficient coal to run full passenger services.

Because of industrial disputes, coal for steam locomotives was in very short supply in 1951-52. Workers' services were maintained, but other passenger services were severely curtailed. Following the spring of 1952 coal became more plentiful, and with the use of recently imported diesel electric locomotives and the electrification of Hutt Valley services to Taita more trains have been provided. However, with preference being given to the running of goods trains, a shortage of train crews is the main factor preventing the full restoration of normal passenger services. Compared with the previous year, passenger journeys in 1952-53 increased by only 162,637, or 0.8 per cent. The overall decline in recent years in rail passenger traffic has been largely offset by a steady increase in the numbers carried by the Railway Department's road services. In 1952-53 there were 24,119,956 passengers carried by the Railway Road Services, which is a decline of 543,979 compared with the previous year, when extra services were provided to handle passenger traffic diverted from restricted rail services.

The tonnage of goods carried, including livestock, increased steadily up to 1929-30, but from then until 1932-33 successive declines were recorded, due mainly to the world economic depression and to motor competition. Commencing in the following year goods-tonnage has recorded an almost continuous upward trend, with slight reductions in 1944-45 through a falling off in military freights and in 1950-51 because of industrial disputes.

The disputes which adversely affected traffic in the year 1950-51 continued several months into the year 1951-52. Although the quantity of goods carried from March to July 1951, when normal industrial working was resumed, was some 600,000 tons lower than in the corresponding months of the previous year, goods traffic improved to such an extent that by the end of the financial year 1952 the tonnage was higher than that for the previous year.

Goods traffic, still buoyant until October 1952, reached 10,025,939 tons in 1952-53, an increase of 197,168 tons, or 2 per cent, compared with the year 1951-52. Freight-ton mileage decreased by 6,575,459, or 0.6 per cent, while the average distance for which goods were hauled fell from 109 miles to 106 miles. The 1952-53 goods revenue of £19,136,216 represented 84.7 per cent of total operating revenue.

Year Ended 31 March	Length Open Miles	Train-mileage (Revenue)	Passengers		Season Tickets Issued	Tonnage of Goods and Livestock*
			Including Season-ticket Holders	Excluding Season-ticket Holders		
1943	3,460	15,139,882	36,133,268	17,171,214	1,377,825	8,887,089
1944	3,504	15,328,987	38,611,267	18,317,323	1,518,045	9,026,626
1945	3,504	12,802,536	32,994,529	13,629,523	1,394,817	8,954,239
1946	3,528	13,454,508	32,417,675	13,553,083	1,369,572	9,210,466
1947	3,528	13,169,233	28,869,135	10,222,325	1,358,453	9,329,333
* Livestock converted to equivalent tonnage.						

Year Ended 31 March	Length Open Miles	Train-mileage (Revenue)	Passengers			Season Tickets Issued	Tonnage of Goods and Livestock*
			Including Season-ticket Holders	Excluding Season-ticket Holders	Season Ticket Holders		
1948	3,526	13,712,103	25,887,189	8,111,417	1,347,671	9,524,043	
1949	3,526	13,895,488	26,167,845	7,708,049	1,387,961	9,666,130	
1950	3,526	14,420,852	25,895,253	7,881,255	1,402,789	9,948,261	
1951	3,531	14,153,211	24,824,075	7,574,275	1,338,435	9,615,857	
1952	3,539	12,371,043	21,292,556	7,195,639	1,195,639	9,828,771	
1953	3,535	13,409,380	21,455,193	5,779,389	1,209,004	10,025,939	

* Livestock converted to equivalent tonnage.

Passenger train-miles run during 1952-53 totalled 4,215,052, and the passenger revenue received represents 143.65d. per passenger train-mile and £876 per mile of line operated by passenger services.

The number of ordinary passenger journeys in 1952-53 increased by 2.4 per cent compared with the previous year. The tonnage of goods handled increased by 2 per cent.

The numbers of livestock carried in 1952-53 were 794,343 cattle and horses, 802,789 calves, 7,964,075 sheep, and 479,968 pigs. The equivalent tonnage was 647,484. Comparative figures for 1951-52 were 730,388 cattle and horses, 810,684 calves, 8,287,146 sheep, 468,264 pigs, and 638,895 tons.

Detailed figures showing the number of rail passengers carried during the last five years are given in the following table.

	1948-49	1949-50	1950-51	1951-52	1952-53
Ordinary	4,317,612	4,353,272	4,023,850	3,055,790	2,944,317
Suburban	2,196,135	2,177,278	2,307,079	1,843,495	2,052,676
Other reduced fares	1,194,302	1,350,705	1,243,346	742,685	782,396
Totals	7,708,049	7,881,255	7,574,275	5,641,970	5,779,389
Season tickets only—					
Suburban weekly—					
Twelve-trip	473,225	477,366	462,060	432,791	423,937
Ten-trip			7,227	14,065	14,502
Workers' weekly	71,671	64,494	57,789	50,408	50,515
Weekly twelve-trip	40,732	40,957	35,222	27,519	32,115
Bearer twelve-trip	62,868	55,790	56,697	47,516	52,170
Bearer six-trip	667,562	696,857	656,483	565,464	578,174
School	20,161	17,827	18,087	16,922	16,740
Tourist	45	32	21	13	11
Travellers' annual	121	113	101	86	76
Other	51,576	49,353	44,748	40,855	40,764
Totals	1,387,961	1,402,789	1,338,435	1,195,639	1,209,004

The following table gives interesting information as to the constitution of the goods traffic for the year 1952-53. The figures are exclusive of steamer traffic on Lake Wakatipu.

Commodity	Tonnage				Revenue		
	Tons Carried	Percentage of Total	Tons, One-mile	Average Haul	Total Gross	Per Ton-mile	
	No.	Per Cent	No.(000)	Miles	£	d.	
Grain and seeds	310,036	3.09	18,314	59	358,492	4.70	
Mead	99,385	1.00	6,987	70	131,028	4.50	
Fruit and vegetables	60,202	0.60	11,826	196	180,430	3.66	
Root crops and fodder	94,537	0.94	12,693	134	175,026	3.31	
Cattle, calves, horses	304,920	3.05	29,459	97	636,793	5.19	
Sheep and pigs	342,564	3.42	35,806	105	894,374	5.99	
Meat, fresh and frozen	361,377	3.60	17,072	47	692,483	9.74	
Butter	150,791	1.50	16,100	107	356,077	5.31	
Cheese	85,499	0.85	4,648	54	139,461	7.20	
Wool	200,483	2.00	15,970	80	456,120	6.85	
Dairy by-products	79,838	0.80	7,685	96	182,136	5.69	
Fur hides, and skins	66,005	0.66	5,746	87	169,778	7.09	
Fish	10,179	0.10	1,970	194	30,607	3.73	
Agricultural lime	504,445	5.03	44,068	87	462,905	2.52	
Coal, New Zealand hard	714,484	7.13	50,791	71	664,773	3.14	
Coal, New Zealand brown	1,238,497	12.35	165,971	134	1,768,660	2.56	
Road-metal	69,620	0.69	4,548	65	73,155	3.86	
Timber, imported	48,831	0.49	4,321	88	107,011	5.94	
Timber, New Zealand	770,120	7.68	128,865	167	1,699,371	3.17	
Firewood, posts, etc.	81,399	0.81	9,715	119	108,589	2.68	
Motor spirits, kerosene	375,201	3.74	35,895	96	959,764	6.42	
Cement	198,953	1.98	27,001	136	443,383	3.94	
Manures	1,019,153	10.17	110,986	109	1,467,117	3.17	
Miscellaneous	2,839,420	28.32	296,230	104	7,061,947	5.72	
Totals	10,025,939	100.00	1,062,667	106	19,219,489	4.34	

* Refunds not deducted.

The next table shows the tonnage of goods carried, freight train-miles run, and net ton-miles run, together with the respective averages for each of the last eleven years.

Year Ended 31 March	Tonnage Carried	Freight Train-miles	Tons One-mile	Gross Revenue			
				Per Ton	Per Freight Train-mile	Per Ton-mile	Per Ton-mile
1943	8,887,089	8,758,310	781,379	18	6	0	18
1944	9,026,626	8,873,974	832,594	19	2	0	19
1945	8,954,239	8,199,598	814,906	18	10	1	0
1946	9,210,466	8,646,417	842,542	18	10	1	0
1947	9,329,333	8,516,995	883,664	19	5	1	1
1948	9,524,043	9,002,450	937,422	1	2	4	1
1949	9,666,130	9,157,049	970,756	1	4	8	1
1950	9,948,261	9,326,993	1,021,138	1	5	1	1
1951	9,615,857	9,153,137	1,026,935	1	11	5	1
1952	9,828,771	8,514,453	1,069,243	1	14	8	2

Year Ended 31 March	Tonnage Carried	Freight Train-miles	Tons One-mile	Gross Revenue			
				Per Ton	Per Freight Train-mile	Per Ton-mile	Per Ton-mile
1953	10,025,939	9,194,328	1,062,667	118	4	2	1

A classification of goods traffic for the eleven years ended 1952-53 is now given, the figures quoted being in thousands of tons.

Year Ended 31 March	Agricultural and Pastoral Produce				Agricultural Lime and Manures	Timber and Firewood	Coal	Motor Spirits and Kerosene	Other
	Agricultural Produce	Dairy Produce	Meat, Fish, and Livestock	Wool					
1943	696	288	1,214	222	1,149	758	2,049	180	
1944	757	252	1,196	219	1,240	757	2,084	202	
1945	752	255	1,194	205	1,402	715	2,084	205	
1946	795	250	1,255	250	1,457	692	2,097	221	
1947	733	249	1,212	233	1,647	701	2,062	261	
1948	759	260	1,202	222	1,534	793	2,088	298	
1949	736	277	1,157	220	1,535	860	2,084	305	
1950	689	294	1,131	226	1,637	882	2,131	330	
1951	652	297	1,047	219	1,654	922	1,869	358	
1952	7923	319	959	232	1,556	835	1,952	370	
1953	564	316	1,086	200	1,524	900	1,953	375	

RAILWAY EMPLOYEES.—The average number of persons employed by the State railways throughout the year ended 31 March 1953 was 25,256. The staff is divided into two divisions—namely, the salaried or clerical division, and the general or out-of-door division—and is further classed in five branches, as shown in the following table.

Year Ended 31 March	Traffic Ways and Works	Locomotive Running	Workshops/Other Branches	Totals
1949	8,311	4,751	3,590	5,965
1950	8,347	4,934	3,644	5,928
1951	8,084	4,691	3,531	5,551
1952	7,923	5,329	3,519	5,407
1953	7,785	5,591	3,534	5,289

A system of classification, first introduced in 1896 and revised at various times since, applies to railway employees. An Appeal Board is constituted to hear grievances of members dissatisfied with decisions in regard to promotion, loss of status, or breaches of discipline. The Board consists of a Magistrate and two members of the Railways service, one appointed by the Minister of Railways and the other elected by the members of the Department. The Government Railways Amendment Act 1944 provided for the establishment of a Tribunal of three members whose principal functions are to prescribe scales of salaries and rates of wages for railway employees; conditions in regard to hours of work, overtime, etc.; and terms and conditions in regard to leave of absence, railway travel concessions, etc. This tribunal, known as the Government Railways Industrial Tribunal, is deemed to be a Commission of Inquiry under the Commissions of Inquiry Act 1908. The members, who must not be members of the Railways Department or of any of the railway employees' organizations, are appointed for a term of three years.

A superannuation fund in connection with the Railways service was established in 1903, but was merged with other State superannuation funds as from 1 April 1948, all moneys standing to the credit of the fund being transferred to the newly created Government Superannuation Fund as from that date. Information concerning this is given in the section dealing with "Social Security, Pensions, Superannuation, etc." A sick-benefit fund, providing for the payment of weekly allowances for periods up to fifty-two weeks to employees other than salaried staff who are incapacitated by sickness, was instituted in 1929. The fund is subsidized by the Department up to a maximum of £28,000 per annum. The amount claimed in 1952-53 was £6,000. The Sick Benefit Society had a membership of 14,801 at 31 March 1953.

RAILWAY ACCIDENTS.—The history of the railways in New Zealand has been one of comparative freedom from train accidents of a serious nature. Of earlier accidents which may be termed disasters, the first occurred near Ongarie in 1923, when seventeen passengers were killed and twenty-six injured as a result of an express train colliding with a fallen boulder on the line; the second was a major derailment of a passenger train near Hyde on 4 June 1943, which caused the deaths of twenty-one passengers and more or less serious injuries to forty-six others.

A further serious accident occurred on 25 February 1948, when the Picton-Christchurch passenger express became derailed two miles south of Seddon Station. A Board of Inquiry set up under the Government Railways Act 1926 found that the cause of the accident was the overturning of the engine and tender due to entering a curve at a speed far in excess of that authorized. Six passengers were killed and sixty-one injured, some seriously. The fireman and driver were also injured.

New Zealand's worst railway disaster occurred on Christmas Eve, 1953, when the engine and six carriages of the 3 p.m. Wellington-Auckland express plunged into a raging flood of ice water, silt, and debris with the accompanying collapse of a bridge over the Wangapeka River. Known deaths totalled 131, with 20 persons still missing after the elapse of some weeks.

During the year ended 31 March 1953, 44 persons were killed and 435 were injured in all kinds of accidents arising from train working and movements of rolling stock. Comparative figures for the previous year were 31 killed and 411 injured. These figures do not include employees who were killed or injured whilst engaged on other duties—e.g., railway workshops.

Of the 44 persons meeting with fatal accidents in 1952-53, 3 were passengers and 41 were employees; of the remainder who were neither passengers nor employees, 19 were killed at railway crossings, 6 in accidents on the line, 2 whilst trespassing, and 2 from other causes. Of those injured, 29 were passengers, 300 were employees (chiefly minor accidents), and 106 were neither passengers nor employees. Of the 106 other persons, 78 were injured in crossing accidents.

PRIVATE RAILWAYS.—There are a number of private railways in New Zealand, chiefly lines of light construction serving colliery and sawmilling areas. On the timber tramways, special rolling stock is used for log haulage with various types of locomotive, many of interesting design according to the nature of the work required of them. The longest of the private lines connecting collieries to the State system is the 11 miles 67 chains of railway between Birchfield and Waitoi, operated by the Ohai Railway Board.

Chapter 13. SECTION 13—ELECTRIC TRAMWAYS AND ASSOCIATED TRANSPORT

Table of Contents

SYSTEMS AND OWNERSHIP.—The five electric tramway systems operating in New Zealand at 31 March 1953 serve the cities of Auckland, New Plymouth, Wellington, Christchurch, and Dunedin, and are controlled by local authorities under powers conferred by the Tramways Act 1908. In Auckland and Christchurch the authorities are boards—namely, the Auckland Transport Board and the Christchurch Transport Board; control of the other three systems is exercised by the City Councils concerned.

Trolley buses are being run in conjunction with all tramway services and have replaced tram cars on some routes as well as covering routes not previously served by tramways. Motor buses are used in each of these five cities to supplement the tramway and trolley bus services, and in Wellington and Dunedin the City Councils also operate cable tramways. In Invercargill tram cars ceased to run in September 1952, and have been replaced by a motor bus service. Wellington has one cable tramway, serving Kelburn; and one service operates in Dunedin, to Mornington.

The tables which follow are divided into two parts, the first series dealing with the operations of electric tramways, trolley buses, and motor buses which form integrated tramway services, and the second portion giving details of the cable tramways.

ELECTRIC TRAMWAYS, TROLLEY BUSES, AND MOTOR BUSES.—In the following pages are reviewed the operations of these forms of transport, showing each system separately for 1952-53, and summary figures for all systems combined for the last three years.

Passenger Vehicles in Use.—The following table sets out details of the numbers of vehicles in use by the various authorities during the year ended 31 March 1953.

System	Tram Cars and Trailers	Trolley Buses	Motor Buses
Auckland	185	56	109
New Plymouth	10	4	14
Wellington	187	22	55
Christchurch	57	11	105
Dunedin	43	26	40
Invercargill	10	—	15
Totals	492	119	338

Seating Capacity.—The next table shows the seating capacity of the vehicles shown above.

System	Trolley Buses	Motor Buses
Auckland	9,620	2,432
New Plymouth	356	168
Wellington	6,553	924
Christchurch	2,674	424
Dunedin	1,698	1,040

System	Tram Cars and Trailers	Trolley Buses	Motor Buses
Invercargill	304		546
Totals	21,205	4,988	12,418
Miles Run During Year. —An analysis of total miles run during the year is now given.			
Auckland	5,478,142	796,083	2,691,211
New Plymouth	214,467	84,020	198,718
Wellington	3,302,163	332,486	751,582
Christchurch	1,602,342	336,063	1,989,644
Dunedin	990,633	489,273	1,006,304
Invercargill	47,535		273,798
Totals	11,635,282	2,037,925	6,911,257

Summary.—The three most recent years are compared in the next series of tables, which shows total numbers of vehicles in use, total seating capacity, and total mileage recorded.

Year	Tram Cars and Trailers	Trolley Buses	Motor Buses
<i>Number of Vehicles</i>			
1950-51	644	48	261
1951-52	591	82	273
1952-53	492	119	338
<i>Seating Capacity</i>			
1950-51	27,758	1,961	11,478
1951-52	23,407	3,369	9,722
1952-53	21,205	4,988	12,418
<i>Miles Run During Year</i>			
1950-51	13,775,539	931,713	6,485,257
1951-52	13,137,051	1,442,787	6,458,308
1952-53	11,635,282	2,037,925	6,911,257
* Total capacity, seated and standing.			

Passengers Carried.—During the years 1950-51, 1952-52, and 1952-53 passengers carried totalled 193,775,087, 177,427,140, and 171,358,382 respectively. The number carried by each of the systems during the year ended 31 March 1953 is given below.

System	Number of Passengers
Auckland	78,825,446
New Plymouth	3,403,583
Wellington	43,128,008
Christchurch	23,539,061
Dunedin	20,529,639
Invercargill	1,942,645

Electric Power Used.—Power used during the year amounted to 42,419,000 kWh., compared with 43,249,000 kWh. during 1951-52, and 45,299,000 kWh. during 1950-51. The quantities used by individual authorities are given in the following table.

System	Thousand kWh.
Auckland	22,575
New Plymouth	667
Wellington	9,429
Christchurch	6,330
Dunedin	3,317
Invercargill	101

Length of Routes.—The length of roadways traversed by tramway and trolley bus routes totalled 102 miles 67 chains and 42 miles 52 chains respectively, details for each system being available in the next table.

System	Length of Road Traversed at 31 March 1953			
	Tramways		Trolley Buses	
	M.	ch.	M.	ch.
Auckland	38	20	11	46
New Plymouth	4	43	3	29
Wellington	26	77	9	2
Christchurch	24	72	9	36
Dunedin	8	15	9	19

Capital Outlay.—At 31 March 1953 the capital value of the six systems was £6,968,635 and expenditure less sales during the year amounted to £989,125. This total value was made up of the assets shown below.

System	Land and Buildings	Tracks and Overhead Equipment	Vehicles	Other Assets	Totals
	£	£	£	£	£
Auckland	313,872	365,542	971,229	119,257	1,769,900
New Plymouth	15,109	81,727	75,379	23,068	195,283
Wellington	315,492	648,843	955,874	108,252	2,028,461
Christchurch	191,464	546,406	935,179	227,887	1,900,936
Dunedin	100,672	239,667	442,459	92,991	875,789
Invercargill	21,074	45,767	118,960	12,465	198,266
Totals	957,683	1,927,952	3,499,080	583,920	6,968,635

The introduction of trolley buses to replace tram cars, which has been proceeding for several years, is reflected in the next table, which gives details of capital outlay on the various types of vehicles.

Class of Vehicle	Value at 31 March 1952	Net Expenditure During Year	Value at 31 March 1953
	£	£	£
Tram cars and trailers	1,029,043	Cr. 35,749	993,294
Trolley buses	841,357	132,163	973,520
Motor buses	868,407	663,859	1,532,266

Accrued Funds and Reserves.—Accrued funds and reserves for each system at 31 March 1953 are given in the following table.

System	Sinking Fund Reserves	Depreciation Reserves	Accident Reserves	Other Reserves	Totals
	£	£	£	£	£
Auckland	241,636	400,305	15,669	43,677	701,287

System	Sinking Fund Reserves	Depreciation Reserves	Accident Reserves	Other Reserves	Totals
New Plymouth		15,052		163,929	178,981
Wellington	93,205	166,085	102,738	59,764	421,789
Christchurch	64,944	33,585	93,423	1,158,220	1,350,172
Dunedin	26,351	244,014	23,567	41,712	335,644
Invercargill	2,122	28,896			31,018
Totals	428,255	887,937	235,397	1,467,302	3,018,891

The next table compares the total accrued funds and reserves at the end of each of the last three years.

Year	Sinking Fund Reserves	Depreciation Reserves	Accident Reserves	Other Reserves	Totals
	£	£	£	£	£
1950-51	374,563	1,372,780	247,005	2,246,134	4,240,482
1951-52	397,958	945,887	261,824	1,524,892	3,130,561
1952-53	428,255	887,937	235,397	1,467,302	3,018,891

Revenue.—The two tables which follow show the revenue of each of the authorities for the 1952-53 year and total revenue of all authorities for each of the past three years specified.

System	Passenger Fares		Other Revenue	Totals
	Cash	Concession		
	£	£	£	£
Auckland	1,056,691	384,202	28,761	1,469,654
New Plymouth	33,624	19,642	3,022	56,288
Wellington	436,488	226,259	79,893	742,640
Christchurch	352,747	98,081	41,585	492,413
Dunedin	251,981	108,615	17,516	378,112
Invercargill	24,626		5,348	29,974
Totals	2,156,157	836,799	176,125	3,169,081
Revenue				
	1950-51	1951-52	1952-53	
Passenger fares—	£	£	£	
Cash	2,669,579	2,174,287	2,156,157	
Concession		931,127	836,799	
Other revenue	68,201	68,107	176,125	
Totals	2,737,780	3,173,521	3,169,081	

Expenditure.—Details of expenditure by each of the authorities during the 1952-53 year and total expenditure by all authorities for the last three years are stated in the next two tables.

System	Operating Expenditure	Capital Charges	Other Expenditure	Totals
	£	£	£	£
Auckland	1,383,752	156,051		1,539,803
New Plymouth	63,403	5,009	5,707	74,119
Wellington	726,220	80,722	562	807,504
Christchurch	457,259	123,823	38,445	619,527
Dunedin	360,012	46,451	43,514	449,977
Invercargill	36,593	9,013	6,627	52,233
Totals	3,027,239	421,069	94,855	3,543,163

Expenditure	1950-51	1951-52	1952-53
	£	£	£
Operating expenditure	2,599,422	2,941,510	3,027,239
Capital charges	349,312	391,847	421,069
Other expenditure	42,862	41,925	94,855
Totals	2,991,596	3,375,282	3,543,163

Employment, Salaries and Wages Paid.—Included in the total expenditure for the year ended 31 March 1953 and distributed between operating and other expenditure, is an amount of £2,307,698 paid as salaries and wages. The total amounts of salaries and wages paid during 1950-51 and 1951-52 were £1,985,729 and £2,259,148 respectively. Details of the number of persons employed by these transport systems and the manner in which the salaries and wages were allocated during 1952-53 are as follows.

—	Males		Females	
	Average Number of Persons Engaged			
	No.	No.	No.	No.
Management and office staff	160	47		
Traffic staff (including inspectors)	1,910	328		
Other (maintenance, etc.)	1,201	8		
Totals	3,271	383		
<i>Salaries and Wages Paid</i>				
	£	£	£	£
Management and office staff	117,620	17,580		
Traffic staff (including inspectors)	1,251,558	203,529		
Other (maintenance, etc.)	713,502	3,419		
Totals	2,082,680	224,928		

Summary of Operations.—Averages derived from the information given concerning passengers carried, fares paid, revenue, and expenditure, are supplied in the table which follows, together with similar details of the operations of the previous two years.

Item	1950-51	1951-52	1952-53
Passengers per mile run	No. 9.14	8.45	8.32
Average fare per passenger	Pence 3.31	4.20	4.19
Revenue per mile run	Pence 31.00	36.20	36.95
Expenditure per mile run	Pence 33.88	38.50	41.30

CABLE TRAMWAYS.—There were two cable tramway systems in operation during 1952-53, one in Wellington and one in Dunedin. Both are electrically operated. The total length of track in use by the two systems amounted to 1 mile 71 chains.

Operations during the year ended 31 March 1953 resulted in a total deficit of £8,479, each system showing a loss. Details of revenue and expenditure are set out in the next table.

System	Passenger Fares	Other Revenue	Total Revenue	Operating Expenditure	Capital Charges	Total Expenditure
	£	£	£	£	£	£

System	Passenger Fares	Other Revenue	Total Revenue	Operating Expenditure	Capital Charges	Total Expenditure
Wellington	14,839	340	15,179	17,486	758	18,244
Dunedin	25,482	159	25,641	26,767	4,288	31,055
Totals	40,321	499	40,820	44,253	5,046	49,299

Review of Operations.—Principal statistics for the three latest years are as follows.

—	Year Ended 31 March		
	1951	1952	1953
Systems No.	3	3	2
Passenger vehicles in use No.	25	25	13
Passenger capacity No.	716	716	442
Miles run No.	262,142	267,638	242,823
Passengers carried No.	4,086,882	3,577,572	3,165,091
Passengers per mile run No.	15.59	13.37	13.03
Average fare per passenger d.	2.62	3.06	3.05
Employees paid out of revenue No.	61	62	48
Salaries and wages paid £	34,480	37,195	33,724
Capital outlay—			
Land and buildings £	20,597	20,597	17,505
Power plant £	15,465	15,465	10,691
Tracks and overhead equipment £	48,503	48,503	20,257
Vehicles £	13,614	13,614	8,397
Other assets £	19,355	19,325	24,378
Totals £	117,534	117,504	81,228
Revenue—			
Passenger fares £	44,587	45,641	40,321
Other revenue £	494	519	499
Totals £	45,081	46,160	40,820
Revenue per mile run d.	41.27	41.39	40.35
Expenditure—			
Operating expenditure £	46,047	47,659	44,253
Capital charges £	9,044	8,837	5,046
Totals £	55,091	56,496	49,299
Expenditure per mile run d.	50.44	50.66	48.73

Chapter 14. SECTION 14—ROADS AND ROAD TRANSPORT

Table of Contents

ROADS AND BRIDGES.—The total mileage of formed roads in New Zealand at 31 March 1952 was 54,525, in addition to which there were 5,465 miles of bridle-tracks and 17,048 miles of unformed legal roads. Details are given in the following table.

—	Counties					Boroughs					Town Districts					Road Districts					Totals		
	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles			
Formed roads and streets, paved or surfaced with—	183	247	9	5	444	5,431	2,454	112	28	8,025	37,155	1,257	233	57	38,702	7,084	170	79	21	7,354			
Bituminous or cement concrete																							
Bitumen or tar																							
Metal or gravel																							
Unmetalled formed roads and streets (i.e., not paved or surfaced)																							
Totals, formed roads	49,853	4,128	433	111	54,525	5,378	8	79	29	5,465	16,676	322	47	3	17,048	71,907	4,458	480	193	77,038			
Bridle-tracks																							
Unformed legal roads																							
Totals, all roads																							

* Includes 5 miles of wood or stone.
? Includes 7 miles clay and shell.
‡ Includes 334 miles of punice roads.

The formation of roads in many parts has been attended with considerable expense and difficulties, arising from the configuration of the country and the abundance of rivers. As illustrating the latter aspect, the following table, showing the number and lengths of bridges incorporated in the roads system as at 31 March 1952, is of interest. Only bridges 25 ft. or over in length have been taken into account, no official enumeration having been made of the innumerable culverts and short bridges. A perusal of the figures shown in this and in the preceding table gives an average of 13.3 feet of bridging per mile of formed road.

Material of which Bridge Constructed	Counties		Boroughs		Town Districts		Road Districts		Totals	
	No.	Total Length	No.	Total Length	No.	Total Length	No.	Total Length	No.	Total Length
All concrete or stone	1,554	157,747	108	10,524	9	614	3	87	1,674	168,972
Steel and concrete	307	39,353	44	7,787	5	708			356	47,848
Steel, concrete, and timber	545	46,860	19	3,235	2	115			566	50,210
Steel and timber	913	75,117	27	4,343					940	79,460
Australian hardwood	2,112	205,042	92	10,135	7	360			2,211	215,537
Native timbers	2,781	159,739	44	3,831	7	387	5	143	2,837	164,100
Totals	8,212	683,858	334	39,855	30	2,184	8	230	8,584	726,127

ROADS ADMINISTRATION.—The main statutes covering roads administration in New Zealand are the Public Works Act 1928, the Counties Act 1920 and amendments, and the National Roads Act 1953 replacing the Main Highways Act 1922 and amendments.

A Special Committee was set up by the Minister of Works in March 1952, the order of reference of which contained a general direction to the Committee to recommend to the Government what standard of roading was adequate to provide and maintain an efficient road transport system and to report on the financial implications. This Committee furnished its report early in March 1953, and a number of its findings have already been implemented.

The principal measure which carried into effect certain recommendations of the Special Committee was the National Roads Act 1953. By this Act a National Roads Board is established from 1 April 1954 to take over the functions of the former Main Highways Board. District Roads Councils are also established to perform the functions hitherto carried out by District Highways Councils, with additional functions in their districts in relation to roading requirements and standards of the various local authorities. The National Roads Board, through the District Councils and otherwise, has functions in relation to the maintenance of roads other than main highways in the districts of local authorities. The Act provides that there will be an increased and automatic allocation of moneys to a National Roads Fund to be expended for roading purposes. Allocations of funds are made without appropriation to boroughs and independent town districts for roading purposes calculated on a population basis, and to counties and road districts based on general rates and special rates for roading purposes collected by them.

The composition of the National Roads Board is: (a) an officer and an engineer officer of the Ministry of Works (Chairman and Deputy Chairman respectively); (b) an administration officer from the Ministry of Works; (c) an officer of the Transport Department; (d) two nominees of the New Zealand Counties Association (Incorporated); (e) a nominee of the Municipal Association of New Zealand (Incorporated); (f) a representative of commercial road users; and (g) a representative of private motorists.

The functions of the Board are defined as follows:

- to administer the National Roads Fund in accordance with the provisions of the Act;
- to provide an advisory service in respect of the whole roading system of counties, boroughs, and town districts throughout New Zealand, and to report to the Government from time to time on the progress being made in providing a roading system adequate for needs arising from current developments in motor traffic;
- to advise the Government of any changes necessary in the legislation and regulations relating to the use of roads;
- to act as the final authority in disputes relating to road classifications;
- to advise the Government of changes necessary in the provision of finance for road construction and maintenance, particularly of changes considered advisable in the levying and collection of motor taxation, including exemptions therefrom;
- to assist and advise local authorities generally on roading matters and any special roading problems arising from development of industries, etc.;
- to undertake at not more than five or less than three year intervals a comprehensive survey into the roading position in New Zealand, including standards, growth of traffic, adequacy, etc.;
- to give effect to any special matter of roading policy communicated to it by the Government;
- to initiate and conduct research into roading problems in New Zealand;
- to collect information on roading developments in other countries and make this available to roading authorities in New Zealand;
- to undertake any other activity for the provision of a roading system adequate both for the needs of an efficient road transport system and for the benefit generally of motor-vehicle operators and the safety of the public in relation to motor traffic.

Roads Council Districts.—New Zealand is divided into twenty roads council districts, composed of counties grouped according to geographic situation and community interest, these districts being deemed to be the same as the former highway districts which they replaced.

For each roads council district there is an advisory body, known as the District Roads Council, which is constituted to include the District Commissioner of Works, one representative of each constituent county and road district, one person to represent boroughs and independent town districts for each two members representing counties or road districts, a representative of commercial road users, a representative of private motorists, and a nominee of the Commissioner of Transport.

The principal functions of these councils are more extensive than those of the former highways councils. They include the making of recommendations to the Board each year as to which roads within the several districts should be declared main highways and the works which should be undertaken, together with estimates of the cost of works, their opinion of the roading needs of their districts as a whole, and their recommendations on other matters of interest to road users or affecting road safety.

Finance.—The financial provisions made in respect of roads were materially altered with the passing of the National Roads Act 1953. This Act provided for a National Roads Fund to be established within the Public Account, the revenue of the Fund to be derived mainly from motor taxation together with an annual contribution from the Government. Expenditure from the Fund is for the purpose of developing State and main highways to modern standards and of subsidizing the roading programmes of local authorities.

On the revenue side of the Fund's operations the Government has reintroduced the principle of reserving motor spirits tax receipts and other motor taxation for roading purposes, which was generally in effect until the change to parliamentary appropriation from the Consolidated Fund for roading expenditure took place consequent on the abolition of the Main Highways Account as from 1 April 1947.

Details of the classes of revenue automatically paid into the Fund fro: April 1954 are as follows:

- Fees and charges from registration and licensing of motor vehicles (section 34, Transport Act 1949), refer page 360 for present rates;
- Heavy traffic licence fees (section 59, Transport Act 1949), less cost of collection not exceeding 5 per cent of the amount;
- Motor spirits tax and mileage tax (Part IV of Transport Act 1949);
- Tire tax (Customs Duties Tariff item 205 (6), Customs Acts Amendment Act 1934);
- Receipts from any source in respect of the construction, maintenance, or control of any highway;
- Receipts from transfers, sales, or hire of materials or plant or property of any kind or from executing works for other organizations;
- Any other moneys credited to the Fund; and
- An annual payment of £1,000,000 from the Consolidated Fund.

The tax on motor spirits from August 1939 to September 1951 was 1s. 2d. per gallon for British imports, of which 8d. was ordinary Customs revenue, and 1s. 2 d. for foreign imports, of which 8 d. was ordinary Customs revenue. From September 1951 to November 1953 both rates were reduced by 2d. per gallon, but as from the latter month the duty was increased to 1s. 3d. per gallon, all of which is now to be paid into the National Roads Fund, not, as formerly, the first 6d. per gallon only.

Expenditure from the Fund may be made without appropriation as follows:

- Payment of annual subsidies to local authorities for roading purposes (not exceeding 10 per cent of the Fund's revenue to borough councils and independent town boards, or 12 per cent to county councils and road boards; nor less than receipts during 1953–54 by way of heavy-traffic fees and annual subsidy, under Municipal Corporations Act 1933, to boroughs or, under the Appropriation Act 1916, to counties, road districts, or town districts);
- Payments by the Crown in respect of the construction, maintenance, and control of main highways;
- Compensation payable by the Crown for acquisition of land for a main highway;
- Compensation and damages payable by the Crown for accidents and injuries in relation to works the cost of which is chargeable to the Fund;
- Cost of purchase or hire of machinery or equipment;
- Cost of survey and other preparatory work for main highways;
- Cost of experimental work;
- Cost of administration by the Ministry of Works; and
- Other expenses by the National Roads Board in exercise of its functions.

The following table gives a summary of the returns from special taxation of motor vehicles for the last five financial years.

Yield of	1948–49	1949–50	1950–51	1951–52	1952–53
	£	£	£	£	£
Tire tax	241,136	64,349	26,745	40,163	25,224
Motor spirits tax*	2,598,870	2,823,369	3,104,216	3,459,664	3,814,227
Fees, etc., under Transport Act 1949	736,386	705,576	805,160	1,000,496	995,577
Mileage tax	15,974	19,997	25,932	32,153	36,745
Heavy-traffic fees	651,308	727,641	802,315	917,737	974,536
Drivers' licences	117,058	123,551	130,685	140,132	152,729
Totals	4,360,732	4,464,483	4,895,053	5,590,345	5,999,038
* Share for highway purposes only (first 6d.).					
‡ Provisional.					

In the following table are shown the amounts which have been expended on main highways construction, renewal, or maintenance by the Main Highways Board during the last five years. Maintenance figures include the cost of flood damage restoration when applicable.

Class of Expenditure	1948–49	1949–50	1950–51	1951–52	1952–53
----------------------	---------	---------	---------	---------	---------

Class of Expenditure	1948-49	1949-50	1950-51	1951-52	1952-53
	£	£	£	£	£
Construction and improvement	2,070,288	2,246,736	1,765,143	2,683,494	3,082,310
Renewal of bridges	287,384	436,450	417,334	594,857	838,145
Maintenance, repairs, etc.	2,635,896	2,508,945	2,685,893	3,796,237	3,689,965
Totals	4,993,568	5,192,131	4,868,370	7,074,588	7,610,420

An analysis of the actual expenditure on maintenance in each Island, as compared with the number of motor vehicles in each Island at 31 March of each of the last five years, appears in the following table, the percentages relating to New Zealand totals.

—	1948-49	1949-50	1950-51	1951-52	1952-53
<i>Percentage of New Zealand Totals</i>					
North Island—					
Maintenance expenditure	69.48	70.07	69.67	67.93	67.13
Motor vehicles	66.21	66.26	66.75	66.91	66.92
South Island—					
Maintenance expenditure	30.52	29.93	30.33	32.07	32.87
Motor vehicles	33.79	33.74	33.25	33.09	33.08

The following table shows the mileage of main highways in the North and South Islands as at 31 March 1953, together with a classification as to the type of construction or surface.

—	Length of Main Highways			
	Dustless Surface	Gravel or Macadam Surface	Clay or Pumice Surface	Totals
	Miles	Miles	Miles	Miles
North Island	3,163	3,835	180	7,178
South Island	1,834	3,824		5,658
Totals	4,997	7,659	180	12,836

Assistance to Local Authorities.—In terms of the Main Highways Act of 1922, the Main Highways Board was required to provide one-half of the cost of construction or reconstruction of main highways and one-third of the cost of maintenance and repairs. By subsequent legislation the rate of assistance was increased and eventually the Board was empowered to determine the basis of subsidy. From 1 April 1931 the standard maintenance subsidy rate was £3 for £1, and only in exceptional circumstances was this increased. The construction or renewal of bridges was subsidized at £2 for £1 until 1 April 1938, but for bridges on main highways where the cost of the bridge was not greater than £60,000 the work was subsidized on a £3 for £1 basis; where the cost exceeded £60,000 the excess was met in full by the Board. On State highways the Board met the whole cost. These provisions are continued by the National Roads Act 1953, the authority now becoming the National Roads Board.

In special circumstances the Board may advance money, by way of loan, to local authorities to provide for the proportion of cost payable by a local authority in respect of the construction or reconstruction of a main highway. Such loans must be repaid by instalments extending over a period (not exceeding ten years) to be agreed upon between the Board and the local authority, and interest is payable at a rate approved by the Minister of Finance.

The payment of annual subsidies to local authorities from the National Roads Fund for roading purposes is made at the following rates: Borough councils whose districts have a population of 6,000 or more, at the rate of £1 2s. per head of population; borough councils and independent town boards with less than 6,000 population, 15s. per head; county councils and road boards, 8s. for each £1 of general rates or of special rates for roading purposes collected during the year. This replaces the former system under which 8 per cent of the proceeds of the first 6d. per gallon of the motor spirits tax and of the mileage tax was distributed on a population basis to cities and boroughs with a population of over 6,000 for expenditure on streets forming continuations of highways. Local authorities also collected and retained receipts from heavy-traffic fees and drivers' licences, the latter of which is still retained by the local authorities. In the year ended 31 March 1953 the amount distributed among cities and boroughs under the former system was £312,662, and for the previous year £298,078.

The Board is also empowered to sell roadmaking machinery, plant, and equipment to local authorities on such terms as it thinks fit, including terms for the repayment of the purchase price by instalments extending over not more than four years, with interest on the unpaid balance at such rate as is fixed by the Board. Since this scheme was introduced, plant, etc., has been purchased to the value of £753,845, of which sum £62,877 was outstanding at 31 March 1953.

Main and State Highways.—Prior to the advent of the motor vehicle only a small proportion of the total road mileage outside of boroughs was permanently surfaced. The development of motor traffic, however, entirely changed the complexion of the roading problem in New Zealand, as elsewhere, and better roads were demanded as motor transport became popular. It was found that under the strain of motor traffic the roads, particularly those between the main centres running parallel with railways, were deteriorating, while the necessity for changes in both construction and administration became more and more obvious. To meet the situation the Main Highways Act was passed in 1922, under which provision was made for the declaration of roads as main highways, and thus the control of arterial roads became primarily a national concern. Under an amendment to the Act of 1922, passed in 1936, the Main Highways Board was empowered, with the approval of the Minister of Works, to classify any main highway as a State highway.

Both of these powers were transferred to the National Roads Board with the coming into force of the National Roads Act 1953.

The National Roads Board has the sole powers of construction, maintenance, and control of all main highways. These powers may be delegated, for any main highway or portion thereof, to the local authority in whose district the road is situated. Any construction or maintenance work that is not delegated by the Board to a local authority is carried out by or through the agency of the Commissioner of Works and the cost borne by the Fund. The Board may also delegate to the Ministry of Works its duties in connection with design, supervision, construction, or maintenance, or the administration of any specified main highway. No new construction works are to be commenced by the Board, however, without the prior consent of the Minister of Works.

As stated earlier the cost of construction and maintenance of main highways is apportioned so that the three-quarters is met from the Fund and the rest is payable by the several local authorities within whose districts any part of the highway is situated in such proportions as may be fixed by the Board. For those main highways declared as State highways, however, the whole cost of construction is to be met from the National Roads Fund.

At 31 March 1953 the length of main highways totalled 12,836 miles, compared with 12,723 miles in March 1952, the small increase of 113 miles being due to the addition of a few special extensions or connections having regard to their relationship to the overall highway system. Of the 12,836 miles of main highways, 5,304 miles, comprising the principal arterial routes, have been classed as State highways, this being an increase of 21 miles over the March 1952 total.

Main Highway Standards.—In order to qualify for financial assistance local authorities are required to carry out works to a standard approved by the National Roads Board. Subsidies are

not payable unless the approved standard is observed, although work of a higher standard may be undertaken provided that the additional expenditure involved is found by the local authorities concerned. From time to time the Board's standards are revised to meet the latest developments in highway practice and engineering design and also to cater for the requirements of increasing traffic. Roadmaking materials used in highway works are subject to standard tests, and during recent years advances have been made in the direction of framing standard specifications which allow of a wider use of certain local materials which formerly were not accepted.

Motor-ways.—Legislation by means of the Public Works Amendment Act 1947, as amended by section 44 of the Public Works Amendment Act 1948, makes provision for the declaration of limited-access highways or, more shortly, motor-ways. It is emphasized that motor-ways are not merely better all-purpose highways.

In addition to providing the most efficient and economic transport service, the main distinguishing features of a motor-way are the control of access and the total elimination of ribbon development, both of which will go far to improve road safety and prevent obsolescence.

Activity During the Year Ending 31 March 1953.—During the year ended 31 March 1953, 192 miles of new sealing were completed, giving an aggregate of 4,997 miles of sealed roads, or 39 per cent of the total mileage of main highways. In addition, a length of 264 miles of existing sealed surfaces received a maintenance coat, and 13 miles of sealed surface were reinstated.

New bridging totalled 6,655 lineal feet, compared with 5,690 lineal feet in the previous year.

TOTAL EXPENDITURE ON ROADS BY GENERAL GOVERNMENT AND LOCAL AUTHORITIES.—The following table compiled from Transport Department sources shows the total expenditure upon roads, streets, and bridges for the years quoted. The amounts expended on maintenance and construction of main highways differ from those given on page 357, since the figures given in the table presented here are inclusive of local authority expenditure on roads classed as highways, whereas the earlier data refer only to funds expended by the Main Highways Board on this account.

—	1948-49	1949-50	1950-51	1951-52
	£	£	£	£
Maintenance—				
Rural main highways	3,319,561	3,276,413	3,533,799	4,699,512
Urban roads and streets	744,220	839,785	889,504	1,062,069
Other rural roads	1,859,514	2,077,025	2,366,809	2,861,949
Totals	5,923,295	6,193,223	6,790,112	8,623,530
Construction—				
Rural main highways	2,511,323	2,854,586	2,322,091	3,509,796
Urban roads and streets	891,055	1,029,924	1,096,561	1,336,807

* The bulk of interest is an estimate of interest on local-authority and public road liability.
† Provisional.

—	1948-49	1949-50	1950-51	1951-52
Other rural roads	623,317	730,738	819,048	1,064,309
Totals	4,025,695	4,615,248	4,237,700	5,910,912
Interest* and sinking fund charges—				
Rural main highways	558,701	575,861	588,985	613,482
Urban roads and streets	661,463	669,043	716,661	729,465
Other rural roads	1,167,705	1,187,629	1,251,073	1,316,429
Totals	2,388,069	2,432,533	2,556,719	2,659,376
Totals, New Zealand	12,337,059	13,241,004	13,584,531	17,193,818

* The bulk of interest is an estimate of interest on local-authority and public road liability.
† Provisional.

The total expenditure shown in the preceding table was made available from the following sources of revenue:

—	1948-49	1949-50	1950-51	1951-52
	£	£	£	£
All roads—				
Loans	2,991,903	3,447,836	3,027,233	4,383,987
Local rates	3,510,751	3,842,255	4,223,290	4,909,083
Government grants	14,095	13,726	13,260	12,701
General taxation*	1,675,766	1,741,286	1,810,736	2,121,580
Motor taxation	4,144,544	4,195,921	4,510,012	5,766,467
Totals	12,337,059	13,241,004	13,584,531	17,193,818

* This item covers sources of revenue other than receipts by way of loans, local rates, Government grants, and motor taxation, the latter including receipts from motor-drivers' licences and heavy-traffic fees.
† Provisional.

REGISTRATION AND LICENSING OF MOTOR VEHICLES.—Before the Main Highways Act was passed, the Government, by the provisions of the Customs Amendment Act 1921 and the Finance Act 1921-22, recognized and applied the principle that motor-vehicle owners should contribute toward the cost of the construction and upkeep of the road surfaces which were required principally for them. By these Acts an import duty was levied on tires and tubes, the funds so obtained being used for highway construction and maintenance.

Amongst the funds specified by the Main Highways Act as being available for the Revenue Fund was a sum to be derived from the licensing of motor vehicles. When the Main Highways Act was passed it was expected that a Motor Vehicles Act dealing with the registration and licensing of motor vehicles would be simultaneously passed, but owing to the difficulty of co-ordinating all interests it was not until November 1924 that the Motor Vehicles Act became law. This Act provided for the registration and annual licensing of all motor vehicles. The Transport Act 1949, however, repealed the Motor Vehicles Act 1924, and as from the operating date of 1 November 1949 the Transport Act became the statutory authority dealing with these requirements.

The following scale of fees are to operate from 1 July 1954 by virtue of the Transport Amendment (No. 2) Act 1953. Registration fees are £1 for any tractor or trailer, and £2 for any other motor vehicle. Annual licence fees are as follows: Motor cycle, £2; motor car, £3; trade motor, £5; motor vehicles designed to carry more than nine passengers, £5; motor vehicles of which the gross unladen weight plus rated weight-carrying capacity exceeds two tons, £5; traction engine, £7 10s.; motor vehicle not otherwise specified, £4; trailers (two or more axles), £5; trailer (other), £1 10s. Other fees include drivers' licences, 5s.; changes of ownership, 10s.; and dealers' licences (motor cycles, £2; any other motor vehicle, £3). All such fees, except those for drivers' licences which are payable to the local authorities, were credited to the Consolidated Fund until 31 March 1954, and thereafter are credited to the National Roads Fund. Heavy-traffic fees which are referred to under the heading 'licences' are levied under the Transport Act, and receipts therefrom, until 31 March 1954, were distributed among local authorities, and from 1 April 1954 to the Public Account to the credit of the National Roads Fund.

The 1949 Act provides that the annual licence may take the form of new registration plates or be in such other form as prescribed by regulation. The Motor Vehicles (Registration and Licensing) Regulations 1949, replacing earlier emergency regulations, authorize the permanent alternative of a licensed label system instead of an annual change of registration plates. The sum of 6d. has been the charge for licence stickers, and 2s. 6d. for each set of two number plates and 1s. 3d. for each single number plate on issue or replacement of number plates.

The following table shows the numbers of the various types of motor vehicles licensed as at 31 March in each of the last five years.

Type of Vehicle	Licensed as at 31 March			
	1949	1950	1951	1952
Cars	225,093	233,812	251,122	280,458
Light trucks (i.e., 2 tons and under, laden)	40,536	43,186	46,714	53,167
Heavy trucks (i.e., over 2 tons laden)	31,823	34,440	38,207	42,014
Contract vehicles	2,182	2,225	2,143	2,103
Omnibuses	1,397	1,494	1,583	1,678
Taxis	19,790	2,021	2,116	2,222
Rental cars	1,056	1,200	1,293	1,557
Private-hire cars	239	266	308	352
Service cars	692	689	734	703
Trailers	29,293	32,860	36,471	40,937
Vehicles exempted from payment of annual licence fees (other than exempted Government-owned vehicles)	22,009	28,557	34,509	42,971
Government vehicles	9,062	10,149	11,036	12,018
Motor cycles	19,914	20,733	21,048	26,703
Power cycles*				3,651
Totals	385,266	411,632	447,384	506,837
Dealers' cars	1,614	1,651	1,677	2,182
Dealers' motor cycles	75	80	89	140
Grand totals	386,955	413,363	449,150	509,159

* Not required to register in the earlier years shown.

War-time restrictions, etc., had the effect of reducing the number of vehicles licensed in the mid-war period, although there were slight increases in the goods-carrying categories in the later war years. The abolition of motor-spirits rationing as from 1 June 1950 was the culmination of the gradual lifting of wartime restrictions on the use of motor-spirits. The higher figures for recent years follow on the higher importations of motor vehicles, particularly of cars. Motor vehicles exempted from the annual licence fee include a miscellaneous collection of machines such as farmers' motor vehicles used solely on the farm and only venturing on roads to proceed from one part of the farm to another, or from farm to garage for repair, etc., excavators, scoops, trench diggers, logging machinery, cranes, etc.

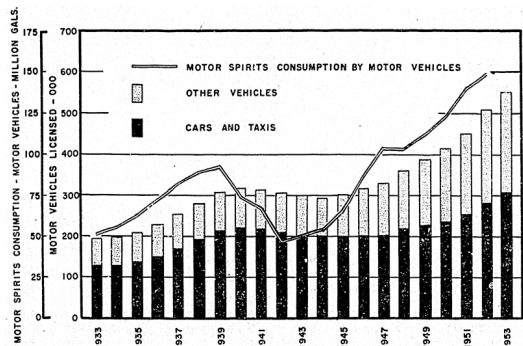
The next table shows the estimated total consumption of motor spirits in New Zealand, together with the quantity consumed by motor vehicles, for each year during the period 1942 to 1952.

Calendar Year	Consumption of Motor Spirits	
	By Motor Vehicles	Total Consumption
	Million Gallons	Million Gallons
1942	46.1	56.5
1943	50.2	59.4
1944	53.7	62.7
1945	65.6	74.6
1946	86.5	96.6
1947	103.3	117.0
1948	102.6	118.3
1949	111.5	132.6
1950	122.5	145.8
1951	139.4	165.9

Calendar Year	Consumption of Motor Spirits	
	By Motor Vehicles	Total Consumption
1952	149.0	182.9

Consumption of motor spirits for civilian purposes reached its lowest level in 1942, successive increases occurring from then until 1948, which was influenced by reversion to a modified form of the wartime rationing. The following years also recorded increases principally owing to the abolition of rationing in 1950 and to the greater number of vehicles on the roads in recent years. Consumption by the Armed Forces was excluded from the figures given for years up to the 1947 year.

The following diagram illustrates the movement that has taken place in the number of motor vehicles licensed, and in the consumption of motor spirits by motor vehicles since 1935. The low consumption of motor spirits during the depression period, the effects of rationing during the war years, the post-war recovery, and increases paralleling the greater number of vehicles licensed in later years, are clearly demonstrated.



The following table gives particulars of the numbers of motor vehicles registered during each of the last five financial years. It must not be assumed, however, that the figures are a record of the number of new vehicles introduced into the country's traffic system each year, since they include an unknown number of vehicles which have been brought back into commission after having been removed from the register. In this connection it may be mentioned that dormant registrations—i.e., vehicles the registrations of which have not been cancelled, but which have not been released for the current year—may be cancelled after the expiration of that year. If, however, a vehicle is again brought into use after its registration has been cancelled, it is treated as a new registration.

Year Ended 31 March	Cars	Motor Cycles (Including Power Cycles)	Commercial Vehicles	Total Registrations
1949	11,662	2,157	21,450	35,269
1950	11,776	2,791	23,770	38,337
1951	19,201	2,937	25,860	47,998
1952	34,699	8,125	31,045	73,869
1953	28,419	6,459	28,841	63,719

The large number of registrations shown for the last two years reflect the heavy importations of vehicles during the period.

ROAD TRANSPORT.—The period following the First World War ushered in a rapid development of an already considerable road motor transport which has necessitated extensive legislation not alone for its control, but also for the provision of adequate road-surfaces. Certain principal enactments are referred to briefly in chronological order.

The Customs Amendment Act 1921, among numerous tariff changes, imposed a fire tax on rubber tires and tubes, previously duty free. The proceeds were credited to the Main Highways Account until 31 March 1947, and since then to the Consolidated Fund. For an account of the moneys derived from this and other highways taxation, see Section 30B (Taxation).

The Main Highways Act of 1922, referred to earlier in this Section, constituted the next landmark. Two years later came the Motor Vehicles Act 1924 (this being repealed by the Transport Act 1949). At the same time the Public Works Amendment Act 1924 was passed (later included in the 1928 consolidation of that Act). Under it regulations could be made fixing, in respect of commercial vehicles of over 2 tons gross weight, heavy-traffic fees payable to local authorities for road-maintenance purposes, and also classifying roads and providing other measures. Regulations to this effect were made in 1925, and are now embodied in the Heavy Motor Vehicle Regulations 1950, replacing 1940 regulations of similar title. In the financial year 1952-53 local authorities received £974,536 by way of heavy-traffic fees, the amount in the previous year being £917,737. Quarterly licence fees under the Heavy Motor Vehicle Regulations range from £2 3s. 4d. (not above 2½ tons), £9 15s. (30 tons), with £3 10s. for each additional ton or part thereof above 30, commencing from 1 June 1954. The fees for farmers' trucks range from £1 1s. 8d. to £92 1s. 8d. on a corresponding basis. No distinction is now made between passenger and goods vehicles, while the range of weight classes is considerably extended. Heavy-traffic fees, less the cost of collection, etc., have been apportioned among the local authorities having control of roads within each heavy-traffic district, either as may be mutually agreed upon by such local authorities or, in default of such agreement, by the Minister of Transport, but from 1954 the fees (less collection costs if not exceeding 5 per cent) are payable to the National Roads Fund.

With the object of controlling motor-omnibus competition with trams, regulations under the Board of Trade Act were issued in 1926. In the same year they were superseded by the Motor Omnibus Traffic Act, itself later repealed by the comprehensive Transport Licensing Act 1931 (amended in 1933, 1935, 1936, 1939, and 1948). All this legislation was consolidated by the Transport Act 1949.

The Motor Spirits Taxation Act 1927 imposed a duty of 4d. per gallon (raised in 1930 to 6d. per gallon; further subsequent increases are not connected with road taxation). As previously mentioned, from the net proceeds 8 per cent was formerly distributed on a population basis among cities or boroughs of a population of 6,000 upwards. From November 1953 the full duty was increased to 1s. 3d. per gallon, all of which is now to be paid into the National Roads Fund instead of only the first 6d. per gallon.

In 1927 the administration of the Motor Vehicles Act 1924 was transferred to the Public Works Department, which subsequently issued in draft form regulations containing a uniform code of rules for motor traffic in New Zealand. After full opportunity for criticism by interested parties the regulations were brought into force in 1928; they were later reissued through the Transport Department as the Traffic Regulations 1936.

The Public Works Act 1928 contained extensive provisions relating to the construction, maintenance, and use of roads. Almost simultaneously came the Motor Vehicles Insurance (Third Party Risks) Act 1928—refer Section 34B (Accident Insurance).

In 1929 the Transport Department Act constituted the portfolio of Minister of Transport, and also constituted the Transport Department under a Commissioner of Transport. The Act placed the administration of the following Acts under the Transport Department: Motor Vehicles Act 1924, Motor Omnibus Traffic Act 1926, Motor Spirits Taxation Act 1927, Motor Vehicles Insurance (Third Party Risks) Act 1928, and Public Works Act 1928 in so far as it related to heavy traffic or to motor vehicles. The Transport Licensing Act 1931 was also under the administration of the Department. The Transport Act 1949 consolidated all previous legislation and repealed the Acts quoted.

TRANSPORT LICENSING.—The Transport Act 1949, which repealed the Transport Licensing Act 1931 and its amendments, provides that any authority under the Act when dealing with an application or any other matter concerned with road transport or harbour-ferry services, is to have regard to the following:

- The provision of modern transport facilities best suited according to the nature of the service to meet the needs of national production and living standards and of national defence;
- The fair and impartial regulation of all forms of public transport in order to develop and maintain transportation facilities adequate to meet the needs of New Zealand and of national and Commonwealth defence; and, for these purposes, to administer such facilities so as to recognize and preserve the inherent advantages of each form of transport, to promote safe, adequate, economic, and efficient service, and the fostering of sound economic conditions in transportation; to encourage the establishment and maintenance of reasonable transport charges without unjust discrimination, undue preference or advantage, or unfair or destructive practices; and to promote good working conditions for workers.

The more important provisions of the 1949 law are described in the paragraphs now given, most of these being the re-enactment of the former legislation.

The constitution of transport, goods-service, and harbour-ferry service districts was provided for in the Act, together with the establishment of a Licensing Authority for each district. For the four metropolitan transport districts, the Licensing Authorities appointed are the Auckland Transport Board and the Wellington, Christchurch, and Dunedin City Councils respectively. Goods-service districts may be identical with a transport district or be a part of the latter. The Minister of Transport may also declare any specified harbour or harbours or parts thereof to be a harbour-ferry service district.

The Licensing Authority for any transport district may also be declared to be the Licensing Authority for the goods-service district. The Act provides for the appointment of a Licensing Authority for each harbour-ferry district instead of the former practice under which the Licensing Authority for the transport district to which the harbour is contiguous was to be the Licensing Authority for the harbour-ferry district. The Minister may authorize any specified Licensing Authority to exercise jurisdiction in respect of licences which would otherwise come within the jurisdiction of some other Licensing Authority.

The Licensing Authority, other than a Metropolitan Authority, is to consist of either one or three persons as the Minister may determine, who are appointed for a term of up to three years' duration. Members are also eligible for reappointment. The sole member or the Chairman (where the Authority consists of three members) has the authority and privileges of a Magistrate in respect of proceedings.

Passenger and goods services and harbour-ferry services are only to be carried on under licence. The meaning of "goods service" is intended by the Transport Act to include the transport of goods otherwise than for hire or reward by means of a heavy motor vehicle from one place to another if there is between these places an available route for the carriage of goods that includes not less than 30 miles of open Government railway unless (a) the route including the railway is longer by one-third than the shortest road route available, or (b) the owner of the motor vehicle is a farmer or market gardener who is carrying goods in connection with his business as a farmer or market gardener, or (c) the owner of the motor vehicle is the Crown or a local authority or public body.

A transport licence is not required for (1) the carriage to and from school of school children and their teachers only; (2) the carriage by a contract vehicle or a harbour ferry of a private party on a special occasion; (3) carriage of workmen to and from work by the Government or a public body, where the vehicle is not designed principally for the carriage of persons and such service has been approved by the Minister for this purpose; (4) carriage of passengers in a trackless trolley omnibus; (5) for carriage of newspapers, or in connection with funerals or repair and wreckage of vehicles which have met with misadventure; (6) farmers carrying milk, cream, or whey to and from dairy factories for their neighbours where a licensed goods service is not available; (7) relieving or assisting inhabitants of a locality affected by flood, earthquake, or fire; (8) carriage of showman's goods, etc., by a vehicle owned by the showman; and (9) goods services otherwise exempted by Order in Council.

In considering applications for licences the Licensing Authority is to have regard to the extent to which any proposed service or improved service is necessary or desirable in the public interest, and the needs of the district concerned. If further consideration be then given, factors to be taken into account are existing services, financial ability of applicant to carry on the service, provision and maintenance of a reasonable standard of living and satisfactory working conditions in the transport industry, the manner in which a service has already been carried on, or the likelihood of satisfactorily carrying on a service, time-tables and frequency of service, vehicles or ferries to be used, conditions of roads, routes and load restrictions, speed, etc., and representations that may be made by various bodies, persons carrying on transport services and likely to be affected, and petitions of twenty-five or more adult persons of the locality concerned, etc.

Preference is to be given to applications by Government and local authority or other public body under certain conditions, chiefly where no existing services are available or where the proposal is for an extension of an existing service, or if the new service is wholly within the applicant's district in the case of a local authority, etc., or where there will be no competition with an existing service to the same locality by means of another route.

The Licensing Authority is to prescribe the terms and conditions of the licences such as class (continuous, seasonal, or temporary), commencement date, localities and routes, time-tables, etc.

Additional requirements may be prescribed for taxicab licences to ensure the control of the service in the interests of efficiency and of the public—e.g., complying with roster of duties, joining an organization for the purpose of obtaining telephone facilities, etc. Licences are transferable subject to certain conditions, while the maximum duration of a harbour-ferry service licence is to be ten years, and that of road transport licences to be five years.

Certificates of fitness are required for each passenger vehicle or goods-service vehicle and all trucks with gross laden weight exceeding two tons.

The Transport Act 1949 provided that the fixing, altering, or reviewing of charges in respect of any transport service should be carried out solely by the Transport Charges Committee or the Transport Charges Appeal Authority established under the Act. The 1950 amendment, however, abolished the Transport Charges Committee and provides that charges are to be fixed, in the case of a service owned by a public body, by that body itself, and in the case of any other service, by the Commissioner of Transport, there being a right of appeal to the Transport Charges Appeal Authority in either case.

The Transport Charges Appeal Authority, as in the case of the Transport Licensing Appeal Authority, also established under the Act, is to be either a Judge of the Supreme Court or the holder of any office under any Act who is entitled to the equivalent rights and tenure of office as a Judge of the Supreme Court.

Applications to fix road and harbour-ferry charges may be made by the holder of, or an applicant for, the licence; any other person whose interests are affected, being the holder of a licence, an applicant, the permanent head of a Government Department, a local authority, or a public body; any twenty-five or more adult residents of a locality in which the charges are or would be in force; all parties to a contract for the carriage of passengers or goods by such services; and incorporated bodies whose members have a special interest in the type of transport concerned or whose principal objects are the protection of the interests of transport operators. The power to fix fares to be charged on any road passenger service carried on by the Minister of Railways to which the Government Railways (Wellington to Johnsonville) Act 1935 applies, is expressly excluded from the jurisdiction of the charge-fixing bodies or Appeal Authority.

The principle to be observed in determining transport charges include: the promotion and maintenance of the economic stability of New Zealand; desirability of increasing national production by granting concessions on the carriage of producers' goods; desirability of providing special fares for all regular users of passenger services and that children under four years be carried free, with children from the age of four years and under fifteen years at half adult rates; desirability of maintaining a reasonable standard of living and satisfactory working conditions in the road transport and harbour-ferry industries; and the maintenance of efficiency of the transport services to which the proceedings relate.

Included in the general provisions is one under which the owner of any motor vehicle licensed for passenger services or goods services and involved in an accident attended by serious injury to any person or serious damage to the property of any person shall notify the Commissioner of Transport within forty-eight hours of the occurrence.

Operations of Licensed Goods and Passenger Services.—The following tables review the operations of licensed road transport services to which the preceding paragraphs relate. The first of these tables gives the estimated overall figures concerning licensed road goods services for the years ended 31 March 1950, 1951, and 1952.

Road Goods Services	Year Ended 31 March 1950	Year Ended 31 March 1951	Year Ended 31 March 1952
Total costs	£13,665,000	£15,463,000	—
Revenue	£16,523,000	£17,962,000	£23,342,000
Drawings and wages included in costs	£5,299,000	£6,207,000	—
Capital	£13,560,000	£13,908,000	£15,074,000
Outside liabilities	£4,030,000	£4,054,000	—
Total vehicle-miles	150,177,000	156,866,000	195,300,000
Vehicles owned (number)	11,750	11,959	12,285
Number of operators	4,711	5,099	5,248
Average cost per vehicle-mile	21.84d.	23.64d.	—
Average revenue per vehicle-mile	26.42d.	27.48d.	28.68d.
Average profit per vehicle-mile	4.58d.	3.84d.	—
Average number of miles per vehicle	12,781	13,117	15,899
* Not available.			

The second table shows traffic data, operating expenses, revenue, and profit of the road passenger services operating in New Zealand, and is inclusive of services in the four Metropolitan Transport Districts, for each of the three years ended 31 March 1950, 1951, and 1952.

Road Passenger Services	1950	1951	1952
Traffic statistics—			
Number of vehicle journeys	4,736,728	5,358,155	—
Passengers carried	102,177,874	108,364,764	119,080,344
Average number of passengers per vehicle journey	22	20	—
Vehicle-miles	53,365,724	55,230,277	59,692,822
Operating expenses—	£	£	£
Running costs	2,036,327	2,240,335	—
Standing charges	2,040,321	2,393,861	—
Overhead	544,831	611,623	—
Total operating costs	4,621,529	5,245,819	—
Total revenue	4,900,419	5,367,766	6,242,373
Total operating costs, in pence per mile	21.18	22.76	—
Total revenue, in pence per mile	22.46	23.30	25.09
Average fare paid per passenger journey	11.5d.	11.9d.	—
Number of vehicles included	2,352	2,540	2,749
* Not available.			

ROAD SAFETY.—During 1947 the New Zealand Road Safety Council was reconstituted. This body was first set up in 1936 to advise the Government on matters of road safety. Sub-committees have now been set up dealing with the following: the motor driver, motor vehicle, roads, traffic laws, traffic law enforcement, road accident statistics, road safety publicity, and child education in traffic.

Publicity directed towards road safety is carried out per medium of the press, posters, screen slides, and radio, concentrating on simultaneous presentation, as far as possible, of specific aspects of the problem. Other means employed in furthering road safety consist of traffic instruction in schools, inspection of motor vehicles, and enforcement of traffic laws.

The Transport Act 1949, as amended in 1950, contains several provisions designed to achieve greater safety on the roads. A maximum speed limit of 50 miles per hour is fixed, but lower limits are provided for special classes of vehicles—e.g., motor cycles with pillion riders and heavy passenger vehicles, 40 miles per hour; vehicles drawing trailers, 35 miles per hour; and heavy goods vehicles, 30 miles per hour. A uniform speed limit of 30 miles an hour is fixed in boroughs, town districts, or other localities which have been declared to be closely populated localities by notice published by the Minister of Transport in the *New Zealand Gazette*. The Act also gives the Minister

power to exempt any road in a particular borough or town district from the provisions of the maximum speed limit, and further exceptions are ambulances (fitted with a siren or bell) or police vehicles travelling on urgent duty, or fire engines proceeding to a fire.

Persons convicted on indictment of negligent or reckless driving, or while under the influence of drink or a drug to such an extent as to be incapable of having proper control of a motor vehicle, if injury to any person results from their actions, are liable to a maximum penalty of five years' imprisonment or a fine of £500. Where no person is injured or where the offence as above results in summary conviction, the maximum penalty is three months' imprisonment or a fine of £100. Where any person is convicted of negligent or reckless driving or attempting to drive a vehicle while under the influence of drink or a drug to such an extent as to be incapable of having proper control of a motor vehicle the Act provides that, unless the Court directs otherwise, an order must be made cancelling the offender's licence and disqualifying him from obtaining another for a period of at least one year from the date of conviction. By the 1950 amendment application may be made after six months to the Court imposing this penalty for removal of the disqualification. The Act prescribes penalties for careless or inconsiderate driving, certain accident promoting offences (28 days' disqualification), the carriage of intoxicants in a public vehicle, and makes compulsory the reporting to the police of all motor-vehicle accidents involving injury.

Included in the Traffic Regulations 1936, as amended up to and including the 1953 amendment, are the requirements to which motor drivers must conform and which are designed to promote the safety of those using the roads.

The following table shows the nature of the offences resulting in convictions during the years ended 31 March 1951, 1952, and 1953.

Type of Offence	1951	1952	1953
(a) Road traffic offences—			
Intoxicated in charge	120	157	207
Negligent driving	16	10	18
Dangerous manner	222	283	383
Dangerous speed	110	141	254
Careless or inconsiderate driving	330	296	513
Exceeding 30 m.p.h.	1,777	2,313	4,356
Overtaking offences	100	122	199
Failing to keep left	127	272	436
Failing to yield right of way	201	215	500
Driver's licence offences	610	728	955
Licensing and registration offences	429	402	546
Lighting offences	557	739	1,322
Defective brakes	63	144	266
No warrant of fitness	947	1,139	1,946
Loading offences	161	215	282
Exceeding 50 m.p.h.	150	176	399
Cycling offences	722	444	436
Failing to dip	53	76	108
Failing to give right of way to pedestrians	51	46	107
Exceeding 40 m.p.h. with pillion passenger	122	234	40
L plate offences	174	277	510
Crossing railway line	64	76	75
Miscellaneous	999	977	1,768
(b) Heavy motor vehicle offences—			
Exceeding heavy-traffic licence	250	465	794
Exceeding axle load	227	655	1,169
No heavy-traffic licence	242	258	524
Speeding	624	641	657
No heavy-traffic disc or class plates	20	49	89
Miscellaneous	51	55	231
(c) Transport licensing offences—			
Unlicensed goods service	149	209	310
Breach of goods service licence	25	34	145
Unlicensed passenger service	14	14	19
Breach of passenger service licence	15	10	4
No certificate of fitness	212	260	455
No vehicle authority	39	48	94
Drivers' hours breaches	26	1	5
Overloading	14	75	205
Rental car offence	31	27	40
Miscellaneous transport offences	12	5	15
(d) Miscellaneous offences under miscellaneous Acts and regulations	102	71	47
Totals	10,158	12,359	20,798

The above table covers only the offences reported by officers of the Transport Department.

TRAFFIC ACCIDENTS ON ROADS.—Motor-vehicle accidents involving death or personal injury are required by law to be reported to the police, and since 15 March 1937 very full particulars of all accidents have been furnished to the Transport Department. For the year ended 31 December 1952, 5,589 such accidents, resulting in 272 fatalities and in injuries to 7,448 other people, were reported. Comparative figures for 1951 and 1950 years were (1950 figures being given in parentheses): number of accidents, 5,224 (4,647); fatalities, 292 (235); persons injured, 6,938 (6,314). The increase in the traffic flow over the last few years, caused partly by the progressive easing of the restrictions on the use of motor spirits, and partly by the increased number of vehicles on the road, has been an important factor in the increase in motor accidents. New Zealand has one of the lowest motor accident death rates (based on deaths per 10,000 licensed motor vehicles) of any of the motorized countries, the New Zealand figure for 1952 being 5.74. Details of the number and nature of road accidents for the five calendar years ended in 1952, which have been compiled by the Transport Department, are as follows.

Nature of Accident	Number of Accidents				
	1948	1949	1950	1951	1952
Collisions—					
Between two motor vehicles	1,116	1,378	1,590	1,967	2,218
Between motor vehicle and bicycle	825	878	902	1,056	1,101
Between motor vehicle and pedestrian	763	806	928	924	902
Between motor vehicle and fixed object	154	208	249	234	249
Between motor vehicle and animal or horse vehicle	34	28	36	45	45
Between motor vehicle and railway train	30	39	33	40	39
Between motor vehicle and tram	34	39	37	38	40
Multiple and other collisions	145	122	188	180	201
Totals, collisions	3,101	3,498	3,963	4,484	4,795
Non-collisions—					
Drove off road	114	151	177	197	176
Went over bank	126	162	182	194	194
Overtaken on roadway	159	151	187	232	250
Person fell from vehicle	73	114	112	92	108
Other	20	16	26	25	26
Totals, non-collisions	492	594	684	740	794

Nature of Accident	Number of Accidents				
	1948	1949	1950	1951	1952
Total accidents	3,593	4,092	4,647	5,224	5,589

Particulars of fatal motor-vehicle accidents included in the foregoing table are now given. It should be noted that the figures relate to the number of accidents and not to the number of deaths, which, as stated above, numbered 272 in 1952.

Nature of Accident	Number of Fatal Accidents				
	1948	1949	1950	1951	1952
Collisions, motor vehicle with—					
Pedestrian	56	45	57	69	60
Motor vehicle	28	50	46	55	60
Train	6	10	9	8	6
Tram				1	2
Bicycle	27	27	22	36	30
Horse vehicle or animal	1	1	2	1	2
Other	17	19	28	29	23
Otherwise	52	46	59	73	70
Totals	187	198	223	272	253

Statistics of deaths resulting from motor-vehicle accidents are available for many years from vital statistics, these figures being discussed briefly on pages 93-94.

The following table shows the distribution of motor accidents on the system of roads and streets during the calendar year 1952.

Classification of Locality	Fatal Accidents		Injury Accidents		All Accidents	
	Number	Percentage of Total	Number	Percentage of Total	Number	Percentage of Total
Four main centres	35	13.8	1,502	28.1	1,537	27.5
Secondary cities (8)	15	5.9	662	12.4	677	12.1
Boroughs 6,000 to 20,000 population	9	3.6	445	8.3	454	8.1
Small boroughs, town districts, and closely populated localities	43	17.0	997	18.7	1,040	18.6
Total in built-up areas	102	40.3	3,606	67.5	3,708	66.3
State highways	82	32.4	1,052	19.7	1,134	20.3
Main highways	34	13.4	350	6.6	384	6.9
Other rural roads	35	13.9	328	6.2	363	6.5
Total on rural roads	151	59.7	1,730	32.5	1,881	33.7
Total accidents	253	100.0	5,336	100.0	5,589	100.0

The next table gives an analysis of the more important causes of accidents involving motor vehicles during the year ended 31 December 1952.

Cause	Percentage of Accidents Where Motorists Considered Responsible	Percentage of Accidents Where Pedestrians Considered Responsible	Percentage of Accidents Where Cyclists Considered Responsible	Percentage of all Miscellaneous Causes
Failure to yield right of way	27			24
Failure to keep left	12			9
Driver/rider inattentive	12			16
Excessive speed	8			
Passing or overtaking negligently	3			
Skidding	4			
Pedestrian crossing roadway heedless of traffic			52	
Pedestrian emerging from behind vehicle or object			17	
Pedestrian stepping into roadway without due care			9	
Pedestrian intoxicated			8	
Pedestrian confused by traffic			2	
Pedestrian walking on roadway when footpath available			2	
Swerving negligently				9
Failure to give proper signal				8
Reckless emergence from another road				6
Door opened in moving vehicle				
Animals on roadway				13
Passenger riding in insecure position				6
Road surface slippery from rain				10
Narrow road				6
Excessive depth of loose metal				6
Sundry causes	34		10	28
Totals	100		100	100

On week days, from Monday to Friday inclusive, the worst hourly period for motor accidents was from 5 p.m. to 6 p.m., on Saturdays from 7 p.m. to 8 p.m., and on Sundays from 4 p.m. to 5 p.m. More accidents occur on Saturday than on any other day of the week.

Chapter 15. SECTION 15—CIVIL AVIATION AND AIR TRANSPORT

Table of Contents

ADMINISTRATION.—Civil Aviation in New Zealand is administered by the Civil Aviation Branch of Air Department. The Air Department was constituted by the Air Department Act of 1937. Prior to that date the control of Civil Aviation, like its military counterpart, was vested in the Defence Department.

The Civil Aviation Act of 1948 provides for the position of Director of Civil Aviation as well as giving effect to the Convention on International Civil Aviation signed at Chicago on behalf of New Zealand on 7 December 1944.

The present organizational structure of the Civil Aviation Branch divides the Branch into three technical divisions—viz., Operations, Airworthiness, and Airways, plus a Directorate Staff and Administration Section. Principal functions of the three Technical Divisions include—

- Examining and licensing of flight crews and aircraft maintenance engineers.
- Operation of the airways communication and air traffic control systems.
- The surveying of, and issuing certificates of airworthiness for, civil aircraft.
- Collaboration with the Ministry of Works on airport projects.

5. Licensing of aerodromes.
6. The provision and maintenance of radio aids to air navigation.
7. Operational certification of commercial aircraft operators.
8. Dissemination of aeronautical and general aviation information.
9. Liaison with the Royal New Zealand Air Force on matters of common interest and with overseas organizations, particularly the International Civil Aviation Organization.

STAFF.—The staff of the Civil Aviation Branch at 31 March 1953 totalled 636. This figure is inclusive of officers stationed in Fiji, the Cook Islands, and Western Samoa, but excludes local native labour employed at those places.

FACILITIES.—Various facilities for air navigation are provided by the Civil Aviation Branch. Radio navigational aids of different kinds are installed at the more important airfields in New Zealand and in the South West Pacific, as well as *en route* aids at various points along the internal airways.

In addition, the Civil Aviation Branch has a number of aeradio stations in New Zealand providing air to ground, ground to air, and ground point to point communication facilities, plus communication centres located at Auckland, Christchurch, and Wellington.

The Air Traffic Control system comprises control towers situated at the important aerodromes with Area Control Centres situated at Auckland, Wellington, and Christchurch. In addition, communication facilities are provided at aerodromes in the Cook Islands, Fiji, and Western Samoa. In Fiji an Air Traffic Control Service is also maintained by the Civil Aviation Branch.

As already mentioned, the Civil Aviation Branch is responsible for collaborating with the Ministry of Works on airport planning, with the Ministry undertaking the actual construction and maintenance. At the larger airports in New Zealand and in the South-west Pacific crash/fire facilities are provided by the Civil Aviation Branch.

The Civil Aviation Charges Regulations 1954 prescribe the rates of dues payable by operators for the use of airways and airport facilities provided or maintained by the Crown. Different rates are prescribed in respect of international and domestic operators, and a distinction is made in respect of air transport and other domestic operations. No charges, other than those prescribed by regulations, are to be made for the use of aerodromes or connected facilities without the approval of the Minister.

The administration of Raoul Island in the Kermadec Group and Campbell Island, on which weather reporting stations are located, is another responsibility of the Civil Aviation Branch.

EXPENDITURE.—The total Government expenditure on civil aviation in New Zealand and its island territories in 1952-53 was £1,541,632, compared with £1,509,163 in 1951-52. Expenditure on the South Pacific Tank Air Route (partly recoverable from South Pacific Air Transport Council Member Governments) was £413,743 in 1952-53 and £271,544 in 1951-52.

AIR TRANSPORT SERVICES LICENSING.—Licensing of air services in New Zealand is now vested in the Air Services Licensing Authority which was constituted by the Air Services Licensing Act of 1951. This authority consists of three members appointed by the Crown, and its principal functions are to hear and determine applications for the granting, renewal, or transfer of air service licences. An air service may not be commenced or carried out without a licence granted under the Act except that any aero club affiliated to the Royal New Zealand Aero Club (Inc.) may carry club members in club owned or hired aircraft without such a licence.

For the year 1952-53, 82 applications were received for air service licences.

The following table summarizes the disposition of licences and applications during the year 1952-53.

Category	Continuous Licence Granted	Declined	Withdrawn or Lapsed	Adjourned <i>Sine Die</i>	Adjourned for Further Hearing	Awaiting Hearing	Temporary Licence Granted	Total
Aerial top-dressing	41	2	2		2	1		53
Other aerial works	46	2	2		2	1		53
Scheduled services	20	1	4	1	1			27
Non-scheduled services	37	2	8	2	3		3	55
Joy-riding (excluding aero clubs)	3							3
Photography	7							7
Mapping (survey)	2							2
Advertising	3				1		2	6
Amendments to existing licences	1						2	3
Transfers							2	2
Totals	160	7	16	3	9	4	10	209

Provision also is made in the Air Services Licensing Act for the appointment of an Appeal Authority of one member. Four appeals were lodged in 1952-53, of which one was allowed in part, and the others dismissed (one with a minor amendment to the licence granted).

NEW ZEALAND NATIONAL AIRWAYS CORPORATION.—The operation of the internal air services is no longer under the complete control of the National Airways Corporation, as provision was made for other operators to run services under the Air Services Licensing Act 1951 previously mentioned. However, the bulk of the internal scheduled services are still operated by the Corporation. Information concerning the establishment of the National Airways Corporation and its duties and functions may be found on pages 329-330 of the 1951-52 Year-Book.

The Corporation's operating revenue figures for the year ended 31 March 1953, together with those for the previous year, are as follows.

	1951-52	1952-53
	£	£
Passenger fares	1,324,606	1,475,330
Excess baggage	22,570	20,664
Freight	184,603	138,554
Mail	99,229	72,748
Charters	48,275	13,936
Incidental revenue	50,200	55,341
Totals	1,729,482	1,776,593

Operating expenditure in 1952-53 totalled £1,713,519 (including depreciation on equipment), as compared with £1,527,120 in 1951-52. The Corporation thus enjoyed a successful year financially. After allowing for interest on capital a net profit of £22,564 was made. Of this total £10,064 was paid into the Public Account and £12,500 transferred to insurance reserve.

FLYING OPERATIONS: Domestic Scheduled Services.—Scheduled air transport operations over specific routes were first commenced in New Zealand in December 1934, on the route Inch-bonnie - Hokitika - Franz Josef Glacier, on the West Coast of the South Island. Subsequent extensions of services up to the outbreak of war in September 1939 had covered almost the whole of New Zealand. During 1946 and 1947 the New Zealand National Airways Corporation absorbed all existing scheduled commercial services, and by adding to the fleet of aircraft was able to commence new services.

In February 1953 a scheduled service between Christchurch and Oamaru via Ashburton and Timaru was commenced by South Island Airways, Ltd.

At 31 March 1953 domestic scheduled services were being operated on the following routes.

Route No.	Terminating Sector Points	Intermediate Stops	Route Miles	Scheduled Frequency
<i>New Zealand National Airways Corporation</i>				
1	Auckland-Whangarei	Nil	72	3 return trips daily.
	Auckland-Kaitiaki	Kaikōhe	142	1 return trip daily.
2	Auckland-Dunedin	Wellington, Christchurch	703	2 south and 3 north trips daily.
	Auckland-Christchurch	Wellington	505	2 south and 1 north trips daily.
	Auckland-Christchurch	Nil	479	1 return trip daily.
	Auckland-Christchurch	Hamilton, Palmerston North, Blenheim	530	1 return trip daily.
	Palmerston North-Wellington	Nil	52	1 return trip daily.
	Wellington-Christchurch	Nil	218	1 south and 2 north trips daily.
	Wellington-Dunedin	Christchurch	416	1 return trip daily.
	Wellington-Dunedin	Nil	414	1 south trip daily.
	Wellington-Auckland	Nil	287	1 return trip daily.
3	Dunedin-Invercargill	Nil	107	4 return trips daily.
4	Auckland-Rotorua	Nil	134	1 return trip daily.

Route No.	Terminating Sector Points	Intermediate Stops	Route Miles	Scheduled Frequency
	Rotorua-Hamilton	Nil	55	1 return trip daily.
	Wellington-Hamilton	Nil	213	1 return trip daily.
5	Auckland-Gisborne	Nil	223	1 return trip daily.
	Auckland-Gisborne	Tauranga	226	1 return trip daily.
6	Gisborne-Wellington	Napier, Palmerston North	226	1 return trip daily.
	Gisborne-Wellington	Napier	225	1 return trip daily.
7	Auckland-Wellington	New Plymouth, Palmerston North	332	1 return trip daily.
8	Wellington-Nelson	Nil	92	6 return trips daily.
	Wellington-Blenheim	Nil	72	4 return trips daily.
9	Nelson-Westport	Nil	95	1 return trip daily.
10	Westport-Hokitika	Nil	75	1 return trip daily.
11	Hokitika-Haast	Watarau, Waioho	125	3 return trips weekly (as required to Watarau and Waioho).
<i>South Island Airways, Ltd.</i>				
12	Christchurch-Oamaru	Ashburton, Timaru	130	2 return trips weekly.
<i>Straits Air Freight Express (N.Z.R. Freight Service)</i>				
13	Wellington-Blenheim	Nil	72	Daily as required.
14	Wellington-Nelson	Nil	96	

The following table gives the summarized results of the operations of scheduled commercial air services during the last six years. Statistics for the New Zealand Railways Freight Service are excluded.

Year Ended 31 March	Hours Flown	Miles Flown	Passengers	Freight (lb.)	Mail (lb.)	Passenger-miles	Freight Ton-miles	Mail Ton-miles
1948	26,735	3,320,992	154,329	1,211,345	597,231	35,695,285	126,010	97,310
1949	31,386	4,015,831	174,836	1,934,626	752,492	44,323,199	242,846	108,580
1950	35,249	4,508,306	204,707	2,757,701	873,305	49,478,365	351,175	121,251
1951	34,066	4,369,308	238,405	5,724,341	916,688	59,744,623	658,817	128,923
1952	37,191	4,818,331	303,048	10,880,822	1,782,084	78,351,805	1,351,088	238,507
1953	37,049	4,739,727	312,422	7,834,868	1,123,626	79,512,139	1,010,009	146,457

* Includes excess baggage.
? Includes excess baggage ton-miles.

Aircraft used in the operation of services on these routes were—

Douglas D.C. 3	20
Douglas C-47B (Freighter)	2
D.H. 89B Dominic	7
D.H. 83 Fox Moth	3
D.H. Heron	3
Bristol Freighters	2
Total	37

During the year ended 31 March 1953, 312,422 passengers, 41,714,313 lb. of freight, and 1,123,626 lb. of mail were carried on these services. Of the total amount of freight carried 33,879,445 lb. was carried by the New Zealand Railways Rail/Air Freight Service.

Cook Strait Rail/Air Freight Service.—The New Zealand Railways Air Freight Service was commenced officially in February of 1947 following a number of special inter-island freight flights which had been carried out by the Royal New Zealand Air Force at the request of the Railways Department to meet a shipping emergency. With the introduction of the Cook Strait Rail/Air Freight Service delays caused by lack of shipping space and industrial troubles were somewhat alleviated. The service was conducted by the R.N.Z.A.F. operating Dakota aircraft until June 1947, when the service was handed over to the New Zealand National Airways Corporation, which continued to operate with Dakotas.

In 1950 the Railways Department decided to allow private enterprise the opportunity of tendering for the contract to run the service, and the successful tenderer was Straits Air Freight Express, Ltd., which took over on 1 April 1951. The service is at present (January 1954) being maintained by two Bristol Freighters on a daily basis, the number of trips varying according to the amount of cargo offering.

Traffic statistics for this freight service for the years 1947 to 1953 are as follows.

Year Ended 31 March	Trips Flown	Hours Flown	Miles Flown	Freight (lb.)	Freight Ton-miles
1947	299	173	22,585	2,040,101	71,297
1948	1,786	1,114	138,266	13,081,232	448,891
1949	2,230	1,482	181,630	17,286,265	600,682
1950	3,018	1,949	232,042	21,789,779	745,781
1951	4,297	2,781	320,514	31,293,329	1,045,558
1952	4,541	2,461	335,714	49,671,125	1,644,051
1953	2,913	1,412	213,459	33,879,445	1,106,476

Non-scheduled Air Services.—In addition to the scheduled services mentioned above, charter and taxi flights were carried out by New Zealand National Airways Corporation as well as by other companies, including Tasman Empire Airways, Ltd., which operated flights to the Chatham Islands as required. Aero clubs also operated air services on a charter basis. The following is a traffic summary of these services for the years ended 31 March 1952 and 1953.

	1951-52			1952-53		
	Commercial Companies	Aero Clubs	Total	Commercial Companies	Aero Clubs	Total
Number of flights	4,742	8,862	13,604	6,106	8,518	14,624
Hours flown	3,530	6,173	9,703	4,614	5,603	10,217
Miles flown	373,055	564,836	937,891	564,557	512,035	1,076,592
Passengers carried	12,051	16,423	28,474	13,596	15,960	29,556
Freight carried (lb.)	1,399,761	43,332	1,443,093	4,280,225	21,487	4,301,712

Aerial Work Operations.—The Royal New Zealand Air Force undertook extensive trials in the dropping of fertilizer from the air in 1948 at the request of the Soil Conservation and Rivers Control Council, which was interested in aerial top-dressing as a means of improving hill pastures and checking and preventing soil erosion. As the R.N.Z.A.F. experiments were successful and showed the distinct possibilities of aerial top-dressing as a commercial proposition, interest among the farming community quickened, and private firms commenced operations in 1949 assisted by the knowledge and experience gained in the official trials. Spectacular progress has resulted since the commencement of commercial operations, and the number of firms engaged in aerial top-dressing has grown from 9 at the end of 1949 to 40 in September 1953. The number of aircraft also has shown a striking increase, from 12 aircraft in December 1949 to approximately 170 in September 1953. To the end of March 1953 a total of 2,655,808 acres had been top-dressed from the air, a figure which shows that the importance of aerial top-dressing is appreciated by the farming community of New Zealand.

Although not as prominent as aerial top-dressing, other aerial work activities are rendering invaluable services to farmers and others. The dropping of rabbit poison, supplies, and fencing materials from the air, aerial seed sowing, spraying and dusting of crops and noxious weeds are important phases of aerial-work operations.

The dropping of supplies to deer cullers and fencing materials in remote areas showed an increase over last year's figures, the total weight dropped in 1952-53 being 313,031 lb., as against 231,807 lb. for the year ended 31 March 1952.

A summary of aerial work operations for the year ended 31 March 1953 follows:

Top-dressing—	
Hours flown	40,727

Year Ended 31 March	Clubs Operating	Membership		Aircraft in Use	Hours Flown		Ab Initio Pupils Under Training
		Associate	Flying		Dual	Solo	
1949	24	3,359	2,686	108	7,481	18,504	454
1950	24	3,960	2,577	106	7,784	18,939	411
1951	22	3,467	2,613	84	6,060	15,937	348
1952	21	3,329	2,517	75	6,025	14,757	392
1953	23	3,204	2,359	84	6,150	16,328	505

LICENCES.—A summary of licences and certificates current at 31 March 1953 is given below.

Flight Crew (I.C.A.O.) Type—

Pilot Licences—	Number at 31 March 1953
Student Pilot	840
Private Pilot	590
Commercial Pilot	301
Senior Commercial Pilot	2
Airline Transport Pilot	135
Pilot Licence Ratings—	
Instructor	83
Instrument	164
Navigator Licences—	
Cadet Flight Navigator	5
Flight Navigator	36
Licences to Operate Radio Equipment in Aircraft—	
Flight Radio Operator	18
Cadet Flight Radio Operator	2
Flight Radio Telephone Operator	106
Restricted Flight Radio Operator	114
Flight Engineer Licences—	
Flight Engineer	19
Cadet Flight Engineer	3
Other Licences, Certificates, etc.—	
Aircraft Maintenance Engineer Licences	271
Aircraft—	
Certificates of Registration	400
Certificates of Airworthiness	325
Aerodromes—	
Public Licences	63
Authorities in Lieu of Passports—	
Crew member certificates (for stewards, etc.)	34
Special endorsement(s) (for licensed flight crew)	68
Air Service Certificates	30

METEOROLOGICAL FACILITIES.—The provision of meteorological information for the use of civil and military aircraft operating within New Zealand or on trans-ocean routes in the South West Pacific region is one of the functions of the New Zealand Meteorological Service. The head office and general forecast office are located at Wellington, and branch forecasting offices are maintained principally for aviation purposes at Nandi (Fiji), Auckland, Ohakea, Paraparumu, Christchurch, and Taieri (Dunedin).

Weather reports are collected by telegraph and radio at three-hourly or six-hourly intervals from approximately 110 stations within New Zealand and 40 on islands of the South West Pacific. Most of the reports are prepared by airfield, telegraph, or lighthouse officials. Twenty airfields report hourly. In addition, routine measurements of the temperature and humidity in the upper atmosphere are made by balloon-borne radiosondes released from five stations, and radar tracking of balloons is employed for wind measurement at six stations. The collected reports are broadcast from Wellington and Nandi for the benefit of neighbouring Services. Similar information is received from Australia and other Pacific administrations.

Forecasting and other services for aviation are provided in accordance with recognized international procedures and agreements. Detailed written forecasts are made available to all scheduled commercial aircraft and supplemented where possible by personal discussion.

Pilots operating from airfields not staffed by meteorological personnel may obtain forecasts and other information by telephone.

AIR MAILS: Inland.—From 1920 onwards various attempts were made to operate air-mail services, but it was not until the inauguration of a service between Hokitika and South Westland in January 1934 that a service of any permanency was established. The district served in this instance is one which possesses very poor transport facilities; and, though the population is sparse and the area small, the carriage of mails by air has great advantages over a land service. It is for this reason that no surcharge is made on the mail matter carried by this service.

On 16 March 1936 the first regular air-mail services linking up the larger centres of population were established between Palmerston North and Dunedin, and between Nelson, Blenheim, and Wellington. As air services increased in frequency and extent the air-mail facilities were correspondingly expanded.

The rate of postage for inland air-mail correspondence was originally 2d. per ounce, but from October 1939 to 29 February 1952 it was 3d. per half-ounce. Since 1 March 1952 the rate has been fixed at 4d. per half-ounce. For parcels up to 28 lb., the rates range from 2s. 6d. to 15s.

The numbers of letters and parcels carried by air in New Zealand during the years 1942–43 to 1952–53 are shown hereunder.

Year Ended 31 March	Letters	Parcels
1943	3,705,000	13,825
1944	4,436,920	18,760
1945	7,055,900	25,690
1946	7,968,920	32,204
1947	11,368,000	48,298
1948	13,008,080	65,205
1949	13,542,720	77,607
1950	13,839,600	91,226
1951	14,206,000	99,575
1952	19,089,800*	217,726*
1953	14,577,960	150,680

* Abnormal increase due to interruption of surface connections owing to industrial dispute.

Overseas: Trans-Tasman Air Services.—The first flight of the regular trans-Tasman service linking Auckland and Sydney took place on 30 April 1940, connection being made at Sydney with the Empire service to London. A service between Wellington and Sydney was commenced on 3 October 1950, and on 28 June 1951 the first flight was made between Melbourne and Christchurch. In normal weeks there are now seven to nine flights weekly between New Zealand and Australia.

New Zealand-United Kingdom Air Service.—The Empire service had been extended to Sydney in December 1934 but, until the establishment of the direct air link across the Tasman in April 1940, it was necessary for air mails to be forwarded by sea from New Zealand to Sydney. In June 1940 the through service from New Zealand to London was interrupted with the entry of Italy into the war, and it was necessary for air correspondence from New Zealand for the United Kingdom to be forwarded by air via Egypt to South Africa, and thence by sea to destination. Following the entry of Japan into the war the service beyond Australia was totally interrupted in March 1942;

and it was not until 30 June 1944 that the through service from Australia to the United Kingdom was restored. The service is now operating six times weekly between Sydney and London, the transit time New Zealand to the United Kingdom being normally five to six days.

Trans-Pacific Services.—The trans-Pacific service operating on a regular fortnightly schedule between New Zealand and North America commenced on 20 July 1940, the route followed being via Noumea, Suva, Canton Island, and Honolulu. This service, which was operated by Pan American Airways, ceased on the entry of Japan into the war in December 1941, and it was not until 20 September 1945 that arrangements of a temporary nature were made for the resumption of the conveyance of civilian air-mail correspondence for North America by the Royal Air Force Transport Command service, the route followed being via Suva, Canton Island, and Honolulu. The Royal Air Force Transport Command service ceased on 18 December 1945. The Pan American air service was recommenced on 6 June 1946, and is now on a regular twice-weekly schedule, the route being via Suva, Canton Island, and Honolulu to San Francisco. The dispatch of New Zealand mail by the Pan American service ceased on 13 July 1953. On 25 April 1947 British Commonwealth Pacific Airlines commenced a direct service from Auckland to Vancouver, via Suva, Honolulu, and San Francisco, the service being a fortnightly one. In February 1949 the frequency was increased to once weekly. Mails by the British Commonwealth Pacific Airlines planes are also forwarded via Sydney to connect with services operating between Sydney and Vancouver, thus giving a twice-weekly service to North America by B.C.P.A. planes. A service between Auckland and Vancouver by Canadian Pacific Air Lines was commenced on 2 February 1952.

Regional Pacific Services.—Services from New Zealand to Norfolk Island, Fiji, Tonga, Samoa, and the Cook Islands operated by the R.N.Z.A.F. in the immediate post-war period were placed under the control of the National Airways Corporation on 1 November 1947. Tasman Empire Airways subsequently took over the Auckland-Fiji service on 6 November 1950, and on 27 December 1951 extended this service to Aitutaki (Cook Islands) and Papeete (French Oceania). On 14 October 1952 Tasman Empire Airways finally replaced the National Airways Corporation services to the Pacific by including Apia (Samoa) in their services; while an extension to Tonga was made in August 1953. As from 31 October 1952 the only place beyond New Zealand served by National Airways Corporation is Norfolk Island.

Chapter 16. SECTION 16—POSTAL AND TELEGRAPHIC

Table of Contents

POSTAL BUSINESS.—At 31 March 1953 there were 1,464 post offices in New Zealand. In addition, there were 345 offices at which telephone business only was transacted.

The following table shows the numbers of articles posted during the years ended 31 March 1949 to 1953.

Year Ended 31 March	Letters, Lettercards, and Postcards	Accounts, Circulars, Newspapers, Packets, etc.	Parcels
1949	162,131,000	148,959,000	8,139,000
1950	169,798,000	165,041,000	8,185,000
1951	178,857,000	471,487,000	7,839,000
1952	174,591,000	164,781,000	7,282,000
1953	176,895,000	173,638,000	7,078,000

Compared with the year ended 31 March 1952 letters, lettercards, and postcards posted during the year ended 31 March 1953 showed an increase of 2,304,000 (5 per cent); and accounts, circulars, etc., an increase of 8,857,000 (4 per cent). Part postings dropped by 204,000 during the year.

The average numbers of letters, etc., posted in New Zealand per head of population during the year ended 31 March 1953 were: letters, lettercards, and postcards, 88; accounts, circulars, newspapers, packets, etc., 87; parcels, 4.

RURAL MAIL DELIVERY.—The rural-mail-delivery system was instituted in New Zealand about 1900, but, as the boxholders were generally called upon to meet part of the cost, development was slow until 1922. In that year the system was altered and a fee was introduced, the rates being 10s. per annum for a delivery of thrice weekly or less and £1 per annum for a greater frequency. The system showed gradual development until 1947, when a review of postal facilities in rural areas was commenced which resulted in a considerable increase in the number of boxholders. The growth of this scheme can be gauged from the following figures: 1921, 8,700; 1940, 32,382; 1950, 51,827; and in March 1953, 59,092.

The rural delivery system enables country settlers to obtain postal notes, money orders, and stamps, to register correspondence, and to collect or post their mail in boxes at or near their gates. The deliveries are generally performed by contractors who handle the mail in conjunction with the carriage of goods, and thus the rural-mail delivery is in many areas the medium by which settlers obtain their newspapers, bread, parcels, etc.

AIR-MAIL SERVICE.—Details of the New Zealand air-mail service are given at the end of the preceding Section.

OVERSEAS PARCEL-POST.—The facilities afforded for the transmission of parcels through the Post Office to places within and beyond New Zealand have proved of much convenience to the public. The regulations admit of parcels up to 22 lb. in weight being sent to Great Britain and Northern Ireland and many other countries (rates range from 3s. for up to 3 lb. to 10s. for 22 lb.), but to Australia, South Africa, and a few other countries the weight limit is 11 lb. Inland parcels may weigh up to 28 lb. Particulars of overseas parcels received and despatched in each of the years 1949 to 1953 are contained in the following table.

Year	Overseas Parcels Received		Overseas Parcels Despatched	
	Number	Weight	Number	Weight
		lb.	£	lb.
1949	280,521	2,204,010	920,357	9,235,946
1950	340,082	2,679,932	539,265	5,724,405
1951	470,035	3,703,993	561,309	509,946
1952	393,960	3,104,503	1,079,971	489,754
1953	354,138	3,010,673	616,254	439,714

* Not available.

NEWSPAPERS.—In October 1953 there were 280 publications on the Post Office Register of Newspapers. Of these, 43 are published daily, 10 being morning papers and 33 evening papers. Eleven appear three times per week, 18 twice per week, 65 weekly, 16 fortnightly, 126 monthly, and 1 at irregular intervals.

MONEY-ORDER AND POSTAL-NOTE SERVICES.—Details of these services are given below.

Money-orders.—New Zealand has reciprocal money-order agreements with all British Commonwealth countries and also with the United States of America, the Republic of Ireland, and Tonga. Money-orders may also be issued in New Zealand for payment in any other country with which the United Kingdom has exchanges of money-orders.

For payment within New Zealand the maximum amount for a single order is £100, but there is no limit to the amount which may be remitted. The commission is computed on each individual order. Commission on inland money-orders is 7d. for the first £10 and 3d. for each additional £5 or part thereof.

A money-order may be transmitted by telegraph for the additional telegraph charge of 1s. 9d.

For money-orders issued for payment overseas there is a limit for most countries of £40 for a single order, but for some countries the limit is £10. There are two special rates of commission, one rate applying to Australia and countries advised through Australia (Fiji, Norfolk Island, and Tonga), and the other rate to all other countries.

During 1952, 1,090,862 money-orders were issued in New Zealand for a total of £14,373,891, and of that total 63,433 orders of a value of £259,733 were issued for payment overseas.

Money-orders issued overseas for payment in New Zealand in 1952 numbered 25,463 and totalled in value £130,746.

The analysis of the overseas money-order business is given below.

Country of Issue or Payment	Orders Issued in New Zealand for Payment Overseas		Orders Issued Overseas for Payment in New Zealand	
	Number	Value	Number	Value
		£		£
United Kingdom	24,114	146,908	9,472	62,592
Australia	34,201	74,004	10,127	25,644
Canada	166	621	847	3,237
Ceylon	20	130	22	71
Fiji	671	11,275	1,527	7,169
Hong Kong	44	315	5	72
India	1,276	11,280	198	255
Republic of Ireland	961	7,327	97	674
Norfolk Island	66	489	479	8,635
Pakistan	168	1,560	"	"
South Africa	342	1,842	298	1,995
United States of America	1,363	3,390	1,702	9,842

* No service to New Zealand.

Country of Issue or Payment	Orders Issued in New Zealand for Payment Overseas		Orders Issued Overseas for Payment in New Zealand	
	Number	Value	Number	Value
Tonga	41		592	689
Totals	63,433	259,733	25,463	130,746

* No service to New Zealand.

The following table gives particulars of all money-orders issued and paid during each of the last five years.

Year Ended 31 December	Number of Offices at End of Year	Money-orders Issued				Money-orders Paid	
		Number	Value	Commission	Number	Value	
			£	£		£	£
1948		936	942,654	10,842,865	39,114	942,779	10,897,406
1949		970	952,214	10,855,648	31,393	934,262	10,821,786
1950		975	977,000	11,638,091	33,577	948,491	11,540,875
1951		973	1,026,510	12,680,898	36,544	987,396	12,550,991
1952		972	1,090,862	14,373,891	39,556	1,055,772	14,283,987

Postal Notes.—Postal notes in thirty-nine denominations ranging from 1s. to 20s. are issued in New Zealand for payment within New Zealand, Niue, the Cook Islands, and Western Samoa. The postage payable is as follows: 1s. to 2s. 6d., 2d.; 3s. to 7s. 6d., 3d.; 8s. to 15s., 4d.; and 15s. 6d. to 20s., 5d.

Postal notes are negotiable, and their period of validity is unlimited. They are, therefore, a popular medium for making small inland remittances by post, and during the year ended 31 March 1953, 2,297,239 postal notes valued at £1,101,004 were purchased by the public.

Information regarding the issue and payment of postal notes is given below.

Year Ended 31 March	Number of Offices at End of Year	Postal Notes Issued			Postal Notes Paid		
		Number	Value*	Commission	Number	Value	
			£	£		£	
1949		1,129	2,483,929	1,106,479	35,948	2,479,810	1,072,201
1950		1,125	2,460,762	1,119,667	36,401	2,457,203	1,078,641
1951		1,140	2,371,577	1,088,977	34,659	2,366,354	1,049,851
1952		1,126	2,349,890	1,115,544	35,664	2,337,982	1,075,228
1953		1,118	2,297,239	1,101,004	35,199	2,287,908	1,066,761

* Value figures are inclusive of commission shown in next column.

British Postal Orders.—These are both issued and paid in New Zealand. Denominations sold in this country are 6d., 1s., 1s. 6d., 2s., 2s. 6d., 3s., 5s., 10s., 15s., and 20s. The commission payable ranges from 2d. to 6d.

As these orders are payable in several British Commonwealth countries they are a popular medium for making small postal remittances to overseas countries, particularly the United Kingdom.

During the year ended 31 March 1953 the Post Office sold 195,417 British postal orders valued at £124,977 and paid 42,988 orders valued at £37,446.

TELEGRAPH AND TELEPHONE SERVICES.—Up to 31 March 1953 a total sum of £31,652,010 had been expended on telegraph construction, including the construction of telephone exchanges. The amount expended during the financial year 1952-53 was £4,335,047.

During the year ended 31 March 1953 the revenue from telegrams and toll communications was £3,747,821, of which £663,677 represented ordinary telegrams, £104,955 press telegrams, and £2,979,189 toll communications. To these figures should be added £4,061,245 revenue of telephone exchanges and £232,614 miscellaneous receipts, making a total telegraph and telephone revenue of £8,041,680.

Details of telegraph and telephone services for each of the last five financial years are now given.

Year Ended 31 March	Number of Paid Telegrams and Toll Messages Forwarded During the Year	Revenue (Including Miscellaneous Receipts)		Total Value of Business	
		Telegraph and Toll	Telephone Exchange		
		£	£		
1949		32,955,179	2,845,114	2,380,715	5,225,829
1950		34,983,335	2,922,478	2,540,124	5,462,602
1951		34,866,663	3,359,801	3,464,099	6,823,900
1952		36,030,144	3,789,980	3,766,043	7,556,023
1953		36,935,314	3,980,435	4,061,245	8,041,680

The number of paid telegrams forwarded in 1952-53 was 7,635,393, a decrease of 108,493 (14 per cent) as compared with 1951-52, while the number of toll communications, 29,299,921, showed an increase of 1,013,663 (3.6 per cent).

The charge for ordinary telegrams on week-days is 1s. for six words or less, and 1d. for each additional word. The charge for letter-telegrams, which are delivered by post on the morning following the day of lodgment, is a flat rate of 1s. 6d. for twenty-two words, and 1d. for each additional two words. On Sundays and departmental holidays the rate for ordinary telegrams is 1s. 6d. for six words or less, and 1 ½ d. for each additional word, the flat charge being taken to the next penny where necessary. An additional charge of 9d. is made for an urgent telegram, irrespective of the number of words contained in the message.

TELEPHONE-EXCHANGE SERVICE.—At 31 March 1953 there were 381 telephone exchanges in New Zealand, serving a total of 425,186 connections. Of these exchanges 327 were manually operated, serving 173,814 connections, or 41 per cent of the total, and 54 were automatic, serving 251,372 connections, or 59 per cent of the total.

The following table indicates the growth of the New Zealand telephone-exchange service (the figures are as at 31 March of each year shown).

—	1945	1946	1947	1948	1949	1950	1951	1952	1953
Exchanges	347	347	348	350	356	358	364	371	381
Subscribers' main stations	188,175	194,508	206,337	219,185	234,874	251,458	268,365	285,171	307,453
Service stations	3,014	3,005	3,168	3,319	3,418	3,576	3,570	3,533	3,596
Toll stations	1,911	1,854	1,829	1,836	1,827	1,784	1,765	1,719	1,691
Public call stations	1,406	1,413	1,456	1,550	1,640	1,802	1,958	2,085	2,223
Extension stations	58,120	60,783	65,251	70,662	76,832	83,804	90,536	98,239	106,591
Private telephone lines	4,100	4,200	4,300	4,000	4,166	4,115	3,795	3,819	3,632
Telephone station totals*	256,726	265,763	282,341	300,552	322,757	348,539	369,989	394,566	425,186
Number installed during year	13,510	10,573	17,002	17,883	21,067	24,806	24,111	26,536	33,560
Number of waiting applicants	19,462	27,000	34,800	41,292	48,378	55,309	58,484	58,348	54,946

* Represents separate instruments connected to main telephone system.

The total number of telephone stations shows an increase of 168,460, or 65 per cent, during the period covered by the table, the net gain for each of the last five years being 22,205, 25,782, 21,450, 24,577, and 30,620 respectively. The increase in subscribers' main stations during the same period amounted to 119,278, or approximately 63 per cent, while extension stations show an increase of 48,471, or a little over 83 per cent.

The "party" line system of telephone service is extensively used, particularly by those whose premises are situated at a distance from an exchange. In March 1953 the number of "party" lines was 39,210, serving a total of 148,627 stations.

According to the latest comparative data available (January 1952) compiled by the Chief Statistician of the American Telephone and Telegraph Co., New Zealand ranks fourth equal in the number of telephones per 100 of population, the leading countries being the United States of America (29.3), Sweden (25.2), Canada (22.1), New Zealand (19.9), Switzerland (19.9), and Denmark (17.5).

The first public call stations (coin-in-the-slot telephones) erected in New Zealand were installed at Wellington in August 1910, and a total of 2,094 such instruments were in use at 31 March 1953. The revenue of these slot telephones during the year ended 31 March 1953 was £146,619. In addition, there are 129 multi-coin slot telephones in use, the first of which was installed at Christchurch in October 1938. These instruments take penny, shillings, and shilling coins and are used for effecting toll calls.

The capital expenditure on the equipment, etc., of the telephone exchanges up to 31 March 1953 was £25,822,627.

The following table shows the classification of telephone exchanges and the annual rental rates for different classes of connection.

Class of Exchange	Class of Connection	Annual Rate Within Base-rate Area					
		Business			Residential		
		£	s.	d.	£	s.	d.
Special (Auckland, Wellington, Christchurch, Dunedin)	Individual	28	17	6	15	0	0
	2-party	22	0	0	12	10	0
	3-party	19	5	0	11	11	0
	4-party	16	10	0	10	12	6
Class I (Over 3,000 subscribers)	Individual	22	0	0	12	10	0
(Typical exchanges are Gisborne, Hamilton, Napier, New Plymouth, and Invercargill)	2-party	16	10	0	10	12	6
	3-party	15	2	6	10	10	0
	4-party	13	15	0	9	7	6
Class II (2,001 to 3,000 subscribers)	Individual	19	5	0	11	17	6
(Typical exchanges are Hawera, Oamaru, and Tauranga)	2-party	15	2	6	10	10	0
	3-party	13	15	0	9	7	6
	4-party	12	7	6	8	15	0
Class III (1,001 to 2,000 subscribers)	Individual	17	17	6	11	5	0
(Typical exchanges are Cambridge, Marton, and Waimate)	2-party	14	8	9	9	7	6
	3-party	13	1	3	8	15	0
	4-party	11	13	9	8	2	6
Class IV (201 to 2,000 subscribers with continuous attendance)	Individual	16	10	0	10	12	6
(Typical exchanges are Te Kuiti, Piopio, Waipawa, and Rangiora)	2-party	13	15	0	8	15	0
	3-party	12	7	6	8	2	6
	4-party	11	0	0	7	10	0
Class V (Up to 1,000 subscribers with restricted attendance and automatic exchanges with less than 200 subscribers)	Individual	13	15	0	9	7	6
	2-party	11	0	0	7	10	0
(Typical exchanges are Akaroa, Kawhia, Te Akau, and Waitotara)	3-party	10	6	3	6	17	6
	4-party	9	12	6	6	5	0

In respect of stations located outside the boundary of the base-rate area of an exchange a mileage rate as indicated hereunder is added to the general base-rate area rental.

For every furlong or part of a furlong by line measurement from the base-rate boundary to the respective subscriber's station—

	Business		Residential	
	s.	d.	s.	d.
Individual line	16	6	15	0
2-party line—each party	8	3	7	6
3-party line—each party	5	6	5	0
4-party line—each party	4	2	3	9

Rural line telephone service is provided at all exchanges except those in the special class. This service provides for a minimum of 5 subscribers and a maximum of 10 subscribers on any one line. In general, subscribers connected on rural lines reside beyond the boundary of the basic-rate area.

Annual rental charges for rural line stations vary according to the number of subscribers on the line and the distance of the subscribers from the exchange.

TOLL SERVICE.—The basic rates for toll calls are as follows:

a. Initial charge for an ordinary call not exceeding three minutes in duration.

For Distances	Between 8 a.m. and 6 p.m. on Week Days and Between 6 a.m. and Midnight on Sundays and Departmental Holidays		Between Midnight and 8 a.m. and Between 6 p.m. and Midnight on Week Days and Between Midnight and 6 a.m. on Sundays and Departmental Holidays	
	s.	d.	s.	d.
Up to and including 10 miles	0	4	0	4
Over 10 miles but not over 15 miles	0	6	0	6
Over 15 miles but not over 20 miles	0	8	0	8
Over 20 miles but not over 30 miles	0	11	0	11
Over 30 miles but not over 40 miles	1	3	1	3
Over 40 miles but not over 60 miles	1	8	1	5
Over 60 miles but not over 80 miles	2	2	1	8
Over 80 miles but not over 100 miles	2	6	1	11
Over 100 miles but not over 150 miles	3	3	2	5
Over 150 miles but not over 200 miles	4	1	3	1
Over 200 miles but not over 250 miles	5	0	3	9
Over 250 miles but not over 300 miles	5	6	4	2
Over 300 miles but not over 350 miles	6	0	4	6
Over 350 miles but not over 400 miles	6	6	4	11
Over 400 miles but not over 450 miles	7	0	5	3
Over 450 miles	7	6	5	8

b. The charge for every additional minute exceeding three is one-third of the respective initial charge except in the case of calls from coin box telephones.

c. The additional charge for an ordinary call exceeding three minutes in duration from telephones having coin boxes associated therewith in which charges for toll calls may be deposited is assessed in multiples of the respective initial charge for a three minute call.

d. Charge for an urgent call: double the rate for an ordinary call.

OVERSEAS CABLE SERVICES.—Telegraphic communication overseas was first established between New Zealand and Australia by means of the Eastern Extension Telegraph Company's cable from Wakaupaka (Nelson) to Sydney in 1876, this cable being duplicated in 1890. Subsequent developments were the opening in 1902 of the Pacific cable between Auckland and Canada via Norfolk Island, Suva, and Fanning Island, with a connection linking Norfolk Island to Brisbane; the laying of a cable direct between Auckland and Sydney in 1912; shifting of terminals from Wakaupaka to Wellington in 1917; laying a cable direct between Auckland and Suva in 1923, and duplicating the Suva-Canada cable in 1927. In 1929 a merger of British cable and wireless companies resulted in the overseas cable services being brought under the control of one authority (the private company of Cable and Wireless, Ltd., with headquarters in London), following which one cable between Wellington and Sydney was abandoned, part of it being lifted for re-use, and the route of the other was altered to terminate at Auckland instead of Wellington. One of the two direct Auckland-Sydney cables later became faulty and has not been repaired, leaving only one direct cable link between Auckland and Sydney. Following up on a conference of representatives of Commonwealth Governments (including New Zealand) held in London in 1945, the Commonwealth's external telecommunications systems were brought under Government control and, in accordance with the Commonwealth Telegraphs Agreement 1948, the New Zealand Post Office purchased the assets of Cable and Wireless, Ltd., in New Zealand, and took over the operation of the overseas cable services.

RADIO COMMUNICATION: Government Stations.—The first wireless telegraph station in New Zealand for communicating with ships at sea was opened at Wellington on 26 July 1911.

The principal stations under the control of the New Zealand Government are at Awara, Wellington, and Auckland on the New Zealand mainland, at Apia in Western Samoa, at Rarotonga and Niue in the Cook Islands, and at the Chatham Islands. Smaller stations are established at certain lighthouses on the New Zealand coast and also on a number of adjacent islands. Marine radio beacons are operated at the lighthouses at Cape Reinga, Cuvier Island, Puysegur Point, Tiri Tiri Island, Mokohinau, Portland Island, Stephen's Island, Baring Head, and Cape Campbell.

Communication is effected with outer islands in the Cook Group by Rarotonga-Radio through small feeder stations at Aitutaki, Atiu, Mangaia, Manihiki, Manuae, Mauke, Mitiaro, Nassau, Palmerston, Penrhyn, Pukapuka, and Rakahanga. Small stations at Aleipata, Atafu, Fagamoto, Sataua, Palauli, Fakaofu, Nukunono, Salalua, and Tuasivi communicate with Apia-Radio. Niue communicates with Apia-Radio, Rarotonga-Radio, and Wellington-Radio.

By means of the radio stations at Wellington, Apia, Rarotonga, and Niue, communication is maintained between New Zealand and the Pacific islands, the last three stations mentioned having direct communication with New Zealand. Wellington-Radio has also direct communication with Chatham Islands, Papeete-Radio (Tahiti), Nukunono (Tonga), Noumea (New Caledonia), and San Francisco (United States of America).

Particulars of the radio business, exclusive of free (service) messages, transacted by the New Zealand coast stations during the last five years are given in the following table.

Year Ended 31 March	Forwarded			Received		
	Messages	Words	Post Office Revenue	Messages	Words	Post Office Revenue
			£			£
1949	25,644	545,658	7,106	61,634	1,197,717	14,309
1950	28,896	581,961	7,643	73,366	1,365,070	16,416
1951	32,219	608,358	6,824	76,919	1,493,134	11,683
1952	36,667	727,335	7,343	88,883	1,769,121	14,055
1953	39,632	778,539	8,438	88,662	1,655,697	13,882

Facilities exist for the despatch of radio-telegrams to vessels at sea, and special rates apply for vessels registered in New Zealand.

Other Radio Services.—Telephone communication by radio is now available to thirty-six countries in addition to certain inter-island and trans-Tasman vessels as well as to Raoul Island, Chatham Islands, and Campbell Island. There has also been a remarkable expansion of the Post Office very high frequency radio-telephone service for mobile units first introduced in 1948. It is now operating in nineteen centres for a total of 1,667 mobile units. Ambulance services, fire boards, traffic officers, taxi companies, veterinary services, and motor-transport companies are the principal users of the service. Radio-telephone services continue to provide essential service for isolated communities which cannot reasonably be reached by land-line—e.g., isolated settlers, alpine huts, etc. There is also a free radio-medical service for ships at sea and for lighthouses on the New Zealand coast for use in emergency cases.

Private Stations.—Private radio stations are governed by the New Zealand Radio Regulations 1953.

The licences for radio receiving stations (i.e., ordinary radio licences) are designed to provide for reception from broadcasting stations, and may be obtained at any postal money-order office on payment of the prescribed fee. Further reference to these licences will be found in Section 17, dealing with radio broadcasting.

Licences for amateur stations are intended to provide facilities for experimental transmission to those interested in radio science, and are issued only to holders of amateur operators' certificates.

Two radio manufacturing organizations and three colleges have been given authority to conduct experimental television transmissions for the purposes of studying the techniques involved and for investigating equipment developments in this new field of radio.

RECEIPTS AND PAYMENTS.—The receipts and payments of the Post and Telegraph Department for the last three financial years are now shown.

Receipts	1950-51	1951-52	1952-53
	£	£	£
Postages	3,315,751	3,617,136	3,801,480
Money-order and postal note commission	67,808	72,116	73,993
Private box and bag rents and rural-delivery fees	108,669	120,294	123,624
Miscellaneous receipts	1,480,604	1,785,057	1,826,291
Telegrams	714,777	770,740	768,632
Tolls	2,351,637	2,695,744	2,897,060
Telephone-exchange rentals	3,284,891	3,577,484	3,857,604
Overseas telecommunications		442,705	356,749
Totals	£11,324,137	£13,081,276	£13,705,433
Payments	£	£	£
Salaries	5,048,602	5,853,840	6,106,892
Conveyance of mails by sea and air	512,647	654,473	652,058
Conveyance of mails by road	304,616	365,382	406,052
Conveyance of mails by railway	237,784	247,407	290,018
Maintenance and renewal of telecommunication system	788,106	974,631	1,275,389
Motor services and workshops	484,346	725,948	847,764
Miscellaneous	2,552,346	3,264,374	3,451,271
Interest on capital liability	811,128	947,886	1,016,266
Sick-benefit Fund	12,670	17,245	17,871
Post Office buildings	227,881	312,938	318,346
Superannuation Fund subsidy	206,000	232,385	239,100
Overseas telecommunications		254,065	145,159
Totals	£11,186,126	£13,850,574	£14,766,186

Receipts and payments for the last eleven years are shown by the following figures.

Year Ended	Receipts	Payments
31 March	£	£
1943	5,863,621	5,089,889
1944	6,251,242	5,105,982
1945	6,694,901	5,970,244
1946	7,068,397	6,478,956
1947	8,672,640	7,374,561
1948	8,974,448	8,956,316
1949	9,519,652	9,877,525
1950	9,647,950	10,491,851
1951	11,324,137	11,186,126
1952	13,081,276	13,850,574
1953	13,705,433	14,766,186

WORK PERFORMED FOR OTHER DEPARTMENTS.—In addition to its natural functions, the Post and Telegraph Department performs a large amount of work for other Government Departments, its widespread organization being of inestimable value in this respect. Among the principal activities in this connection are the receipt and payment of moneys on behalf of the various Departments, the more important of which are enumerated below.

Receipts.—Social Security Department (social security charge on income, social security charge on wages, sale of social security stamps), Agriculture Department (orchard tax and inspection fees, etc.), Education Department (child welfare receipts and examination fees, etc.), Health Department, Department of Inland Revenue (land tax and income tax), Lands and Survey Department, Treasury (special mileage tax on motor vehicles), National Provident Fund, Public Trust Office, State Advances Corporation (state rents, loan and interest repayments), State Hydro-electric Department (Southland electric power receipts), Government Superannuation Board, Transport Department, Department of Tourist and Publicity (Mamaku and Ngongotaha power receipts), Valuation Department, New Zealand Broadcasting Service (radio licence fees and subscriptions to *New Zealand Listener*), Customs Department (collection of Customs duty and sales tax).

Payments.—Social Security Department (social security benefits and war pensions, etc.), Health Department (refunds of medical expenses), Reserve Bank (interest warrants and coupons), Government Superannuation Board, Army Department, Air Department, Education Department (boarding-out orders), Labour and Employment (subsidized wage payments, military training medical examination payments, and holiday cards), Department of Maori Affairs (Maori Trust payments), Public Trust Office, Police Department (witness warrants), Treasury (refunds of duty on motor spirits and miscellaneous payments for other Departments), Ministry of Works.

Other services performed by the Post and Telegraph Department are the control of the licensing of, and the issue of licences in respect of, motor vehicles and radio apparatus, provision of advice and service on radio matters to the Marine Department and the Civil Aviation Branch of the Air Department, and provision of a fleet of motor vehicles in the larger centres for hire by other Departments. In the smaller centres Postmasters act as Registrars of Births, Deaths, and Marriages, Registrars of Electors, and agents for the Government Life Insurance Department, State Fire and Accident Insurance Office, and State Advances Corporation.

Other activities, not strictly departmental, include the receipt of Motor Vehicles Insurance (Third Party Risks) premiums under the Transport Act 1949, the issue of fishing and game licences on behalf of acclimatization societies, organizing and collecting investments in respect of national savings, organizing and selling health stamps, and collecting revenue for such outside bodies as the New Zealand Poultry Board, the New Zealand Trade Certification Board, and the Armed Forces Canteen Council.

STAFF.—The large volume and varied nature of the business of the Post and Telegraph Department entails the employment of a large staff. The Department is administered by the Postmaster-General and Minister of Telegraphs, with the Director-General as executive head. The staff at 31 March 1953 was as follows: Permanent, 13,436; temporary, 5,745; non-classified, 282; total, 19,463. In addition, there were 1,031 country postmasters and telephonists who acted as such in conjunction with other pursuits and did not rank as officers of the Department. There were also 64 officers of the Railways Department who acted as postmasters.

Chapter 17. SECTION 17—RADIO BROADCASTING

Table of Contents

NEW ZEALAND BROADCASTING SERVICE.—The Broadcasting Act of 1936 established the National Broadcasting Service as from 1 July 1936, and vested its control in a Minister of the Crown. All property, rights, liabilities, and engagements of the pre-existing controlling authority (the New Zealand Broadcasting Board) were transferred to the Crown. Details of the Board's activities and of the early history and development of radio broadcasting in New Zealand are given in the 1942 and earlier issues of the Year-Book.

The administration of the National Broadcasting Service was placed in the hands of a Director of Broadcasting, appointed by the Governor-General in Council to hold office for a period not exceeding three years. Permanent officers in the employ of the Board became officers of the Public Service as from 1 July 1936.

Section 9 of the Act allows for the appointment of an advisory body called the Broadcasting Advisory Council, to consist of not more than five members, to be appointed from time to time by the Governor-General on the recommendation of the Minister. Appointment to the Council is for a period of three years, except that members may be reappointed or removed from office by the Governor-General. No Advisory Council has however been appointed under this section.

The Broadcasting Act 1936 also authorized the Minister of Broadcasting to establish and operate commercial broadcasting stations from which advertising matter might be broadcast. For every locality that is served by a commercial station the Minister is required to provide an alternative service from at least one non-commercial station. Advertising over the air is forbidden except from the commercial stations authorized under the Act.

The Broadcasting Amendment Act 1937 made legislative provision for the establishment of a National Commercial Broadcasting Service. The administration of the Commercial Service, which in 1938 operated five stations—1ZB, 2ZB, 3ZB, 4ZB, and 2ZA, was placed in the hands of a Controller. This in 1938 there were two separate broadcasting organizations in New Zealand—the National Broadcasting Service under a Director, and the National Commercial Broadcasting Service under a Controller. This provision was repealed by section 4 of the Statutes Amendment Act 1943, the position of Controller was abolished, and from 26 August 1943 the two services were combined under a Director of Broadcasting. The Commercial Service was thus absorbed into the National Broadcasting Service.

In 1946 the title of the Department was changed to the New Zealand Broadcasting Service to give effect to the complete amalgamation of the two pre-existing authorities, which had in fact commenced prior to 1943 with the amalgamation of all technical resources under a Chief Engineer. Since 1946 there has been only one broadcasting organization, the New Zealand Broadcasting Service, controlling commercial and non-commercial broadcasting in New Zealand.

Stations and Programmes.—There were, at 31 March 1953, twenty-nine medium-wave broadcasting stations and two short-wave transmitters of Radio New Zealand with eighteen assigned frequencies. Two of the medium-wave stations are privately owned (2XM and 4XD) and operate with the assistance of a subsidy from the Broadcasting Account, five are national advertising stations marked "(a)" in the following list—and seven are local stations carrying advertising up to nine hours daily, Monday to Saturday, the balance of programme time carrying no advertising—these stations are marked "(b)". The complete list being given below.

Station	Aerial Energy Kilowatts	Frequency* Kilocycles	Normal Hours of Transmission Per Week	
			Hr.	min.
SHORT-WAVE STATIONS				
2L2 Wellington	7.5	9,540	115	35
2L3 Wellington	7.5	11,780	115	35
2L4 Wellington	7.5	15,280	115	35
2L8 Wellington	7.5	9,620	115	35
2L10 Wellington	7.5	15,220	115	35
MEDIUM-WAVE STATIONS				
1XN, Whangarei (b)	2.00	970	49	0
1YA, Auckland	10.00	760	121	20
1ZB, Auckland (a)	10.00	1,070	126	0
1YD, Auckland	0.75	1,250	48	0
1YC, Auckland	10.00	880	31	0
1XH, Hamilton (b)	2.00	1,310	79	0
1YZ, Rotorua	10.00	800	108	30
2XG, Gisborne (b)	2.00	1,010	49	0
2XM, Gisborne	0.09	1,180	16	30
2YZ, Napier	5.00	860	108	30
2XP, New Plymouth (b)	2.00	1,370	49	0
2XA, Wangamui (b)	2.00	1,200	49	0
2ZA, Palmerston North (a)	2.00	940	87	0
2YA, Wellington	60.00	570	121	20
2YX, Wellington	1.00	1,400	"	"
2YC, Wellington	60.00	660	37	0
2ZB, Wellington (a)	10.00	980	126	0
2YD, Wellington	0.50	1,130	21	0
2XN, Nelson (b)	2.00	1,340	49	0
3YZ, Greymouth	10.00	920	108	30
3YA, Christchurch	10.00	690	121	20
3ZB, Christchurch (a)	10.00	1,100	126	0
3YC, Christchurch	10.00	960	38	30
3XC, Timaru (b)	2.00	1,160	49	0
4YA, Dunedin	10.00	780	121	20
4ZB, Dunedin (a)	10.00	1,040	126	0
4YC, Dunedin	10.00	900	38	30

* The frequencies used vary from time to time.

* Operates during period when 2YA is broadcasting proceedings of the House of Representatives.

Station	Aerial Energy	Frequency*	Normal Hours of Transmission Per Week	
4XD, Duncedin	0.06	1,430	13	0
4VZ, Invercargill	500	720	108	30

* The frequencies used vary from time to time.

* Operates during period when 2YA is broadcasting proceedings of the House of Representatives.

Station 2AP, Apia, is operated by New Zealand Broadcasting Service staff under secondment to the Broadcasting Department of the Government of Western Samoa. The New Zealand Broadcasting Service also acts in an advisory capacity in respect of broadcasting matters and arranges for the supply and maintenance of technical equipment in Western Samoa.

The aggregate transmission of all stations—National, Commercial, and Short-wave—amounted during the year end 31 March 1953 to 117,991 hours. Of the scheduled time, 41 ½ hours were lost owing to technical defects in equipment.

At the request of the authorities responsible for the conservation of electric power, broadcasting after May 1950 was curtailed, but early in 1954 these restrictions were eased.

All programmes to be transmitted from the private broadcasting stations are supervised, and the Minister has authority to prohibit the broadcasting of any part of a programme which in his opinion is unsuitable for broadcasting.

The programmes of the various stations are published in the *New Zealand Listener*, a weekly paper which was first issued on 30 June 1939.

Radio Coverage of New Zealand.—The call signs of the stations operated by the New Zealand Broadcasting Service and their functions in the programme coverage of New Zealand are as follows:

a. Stations 1YA, 2YA, 3YA, 4YA, 1YZ, 2YZ, 3YZ, and 4YZ. These stations are operated to provide non-advertising programmes separately or in link to listeners throughout the whole country.

b. Stations 1YC, 2YC, 3YC, 4YC, 1YD, 2YD, and 2YX, provide alternative non-advertising programmes to the programmes of the YA and YZ stations listed in (a) above, but with coverage not quite so extensive.

c. Stations 1ZB, 2ZB, 3ZB, 4ZB, and 2ZA present advertising programmes mainly of a light nature giving further alternative programmes to those provided by stations listed in (a) and (b) above.

d. Stations 1XN, 1XH, 2XG, 2XP, 2XA, 2XN, and 3XC. These are stations of local coverage in the smaller cities and towns and are designed to serve the immediate locality and present advertising and non-advertising programmes in specified time bands. Within their coverage range, these stations provide alternative programmes to those provided by stations listed in (a), (b), and (c) above.

In addition, the overseas short-wave service of Radio New Zealand operates from ZL2, ZL3, ZL4, ZL8, and ZL10.

Television.—A departmental committee was set up in July 1949 by the Minister of Broadcasting to advise him on the development of television overseas and on the problems involved in the establishment of a television service in New Zealand. The Service continues to study closely the latest developments both in the technical and programme fields of overseas television organizations and the committee mentioned reports periodically to the Minister in this direction.

SHORT-WAVE SERVICE.—The service provided by Radio New Zealand is now well established, with a wide listening audience in Australia, the Pacific Islands, and even as far afield as Western Europe, the United States of America, and Japan.

Broadcasts by New Zealand artists are increasing in number each year. Features include the broadcasting of the National Orchestra, spoken material informing listeners of life in New Zealand—e.g., in such documentary programmes as "Felling the Timber", "Big Game Fishing in the Bay of Islands", etc., and the daily news service for New Zealand forces serving in Korea. A home service programme is rebroadcast from 6 a.m. to 7 p.m., and the special overseas transmission "Calling Australia and the Islands" follows. For the benefit of New Zealanders overseas, a full New Zealand summary of all sports results is broadcast each Saturday evening.

NATIONAL NON-COMMERCIAL SERVICE.—An analysis of the combined programmes of the National non-commercial stations for a sample week in February 1953 showed that, of the total broadcasting hours, 19.55 per cent was devoted to serious music; 44.15 per cent to light music; 3.49 per cent to modern dance music; 8.46 per cent to plays, sketches, and dramatic serials; 5.11 per cent to sporting commentaries; 6.73 per cent to talks, general and educative; 7.34 per cent to news and commentaries; 2.28 per cent to church and devotional services; and 2.89 per cent to children's dramas.

The Service maintains a broad policy of broadcasting from the National stations in the four main centres, programmes designed and classified to suit the major divisions of community taste. In the smaller centres, where there is only a single station, the problem is more difficult. Every effort is made to solve it suitably and experiments are tried continually.

The practice is followed of giving broadcasting engagements to the best musical and other talent available in New Zealand. Throughout the year ended 31 March 1953 the Service engaged in the studios or by relayed performance 361 different bands, large choral groups, and similar societies. In all, these groups were on the air 917 times. In addition, 3,581 artists or small groups of artists appeared 16,653 times before microphones of the Service.

The writing and production of dramatic and other special features in which local actors and actresses are employed are carried out by the productions section of the New Zealand Broadcasting Service, and encouragement is being given to New Zealand writers.

The recording facilities are a valuable adjunct, and the studios are engaged daily in recording plays and programmes written by overseas and New Zealand authors, talks and news bulletins broadcast overseas which are rebroadcast in New Zealand at more convenient times, and historical events and other features.

The proceedings of the House of Representatives are broadcast from Station 2YA in order to acquaint the public with the provisions of the various Bills and the views of their representatives. During this time its scheduled programme is broadcast by 2YC, and 2YX takes over the scheduled programme of the latter.

Regular broadcasting programmes for schools are undertaken. The weekly schedule consists of three hours, and the following subjects are dealt with: music appreciation, singing, rhythm for juniors, literature, history through literature, nature study, book reviews, talks on news, social studies, and science, and French lessons for post-primary pupils. The Correspondence School of the Department of Education also broadcasts three half-hourly programmes per week. A new programme "Kindergarten of the Air", is now broadcast for the benefit of pre-school children.

Time signals from the Seismological Observatory are broadcast through Station 2YA or 2YC each day. The signals take the form of a series of six "dots" at intervals of one second, the last "dot" being the exact minute. Fuller details of this time service may be obtained from the article on time service arrangements published in Section 44 (Miscellaneous) of this Year-Book.

The National Orchestra of the New Zealand Broadcasting Service was formed in 1946. Its concerts, studio broadcasts, tours, and free concerts to schools, are arranged and managed by the Concert Section of the Service, which also arranges for the presentation of overseas celebrity artists in public concerts associated with the National Orchestra, in concert tours without the Orchestra, and in studio broadcasts.

Financial Statistics.—The following table shows the expenditure on the national activities of the Service for the last five financial years:

	1948-49		1949-50		1950-51		1951-52		1952-53	
	£	£	£	£	£	£	£	£	£	
Programmes	204,393	238,331	210,957	192,562	220,249					
Maintenance of plant	15,885	35,800	30,113	59,168	43,601					
General administrative and running expenses	250,371	283,550	309,507	335,308	346,088					
Subsidies to private "B" stations	225	225	225	225	225					
Depreciation of assets	28,303	48,023	67,222	88,455	99,277					
Other expenses	2,335	573	500	500	250					
Total expenditure	£501,512	£606,502	£618,524	£676,218	£709,690					

Income for the year ended 31 March 1953 amounted to £601,497, including radio-licence fees, £561,431 (net), and surplus on *New Zealand Listener*, £2,223. The total income for each of the preceding four years was: 1948-49, £531,095; 1949-50, £548,237; 1950-51, £572,100; and 1951-52, £604,930.

COMMERCIAL SERVICE.—Following the coming into operation of the Broadcasting Act 1936 the State purchased Station 1ZB, Auckland, which had previously operated as a "B" station, and commenced the broadcasting of programmes which included advertising matter. Commercial stations were subsequently established at Wellington (2ZB), Christchurch (3ZB), and Duncedin (4ZB), all of which were opened in 1937, while Station 2ZA (Palmerston North) was opened in 1938.

In January 1949 a station (3XC) was opened at Timaru. This station was the first to broadcast both commercial and non-commercial programmes. Similar stations now operate at Whangarei (1XN), Hamilton (1XH), Gisborne (2XG), Wanganui (2XA), Nelson (2XN), and New Plymouth (2XP).

The programmes of the Commercial stations contain a high percentage of entertainment, as compared with commercial announcements or direct advertising.

Sessions of informative value and services such as the broadcasting for missing cars and persons are provided in addition to the normal programmes.

Financial Statistics.—Advertising constitutes the only source of revenue of the Commercial stations no portion of the radio-licence fees being allocated to these activities. For the year 1952-53 income totalled £681,623, and expenditure £538,868, making a net profit for the year of £142,755 before payment of tax. Corresponding figures for the previous financial year were: Income, £609,182; expenditure, £513,430; net profit before payment of tax, £95,752.

STATISTICS OF RADIO LICENCES.—The growth in the number of radio-receiving licences is apparent from the following table. Free licences, which are referred to later, are included in the figures. The licence fee for a receiving station, which from 1 April 1935 had been £1 5s. per annum, was increased to £1 10s. per annum as from 1 January 1954.

As at 31 March	Auckland	Wellington	Canterbury	Otago	New Zealand Totals	Licences Per Hundred of Population
----------------	----------	------------	------------	-------	--------------------	------------------------------------

As at 31 March	Auckland	Wellington	Canterbury	Otago	New Zealand Totals	Licences Per Hundred of Population
1943	121,194	130,453	65,935	50,539	368,121	22.53
1944	124,855	133,845	66,046	50,666	375,412	22.84
1945	126,716	133,706	68,155	50,612	379,189	22.57
1946	130,445	139,243	71,367	51,943	392,998	22.35
1947	139,487	143,812	74,472	57,452	415,223	23.16
1948	144,646	146,484	74,164	55,689	420,983	22.95
1949	148,742	150,373	75,385	57,589	432,089	23.07
1950	155,797	155,585	78,286	59,679	449,347	23.86
1951	160,743	160,973	80,795	60,907	463,418	23.89
1952	165,838	167,471	83,924	62,300	479,533	24.11
1953	173,008	169,918	85,415	63,515	491,856	24.14

A summary of all radio licences in force in New Zealand as at 31 March 1953 follows.

District	Receiving Stations	Radio Dealers	Private Experimental			Multiple	Total Licences
			Amateur	Research			
Auckland	173,008	739	765	23	18	174,553	
Wellington	169,918	733	881	32	42	171,606	
Canterbury	85,415	326	366	7	18	86,132	
Otago	63,515	277	252	8	12	64,064	
Totals	491,856	2,075	2,264	70	90	496,355	

Licences are issued free of charge to institutions for the blind and also to any blind person. In addition, public hospitals, benevolent and orphan institutions, and other charitable institutions are granted free licence privileges, provided that the sets are used for the benefit of patients or inmates. Free licence privileges have also been extended to the operation of receiving sets in schools, where such sets are used for educational broadcast purposes. The number of free licences as at 31 March of each of the last five years was: 1949, 1,951; 1950, 2,043; 1951, 2,274; 1952, 2,428; and 1953, 2,533.

A penalty is attached to the operating of unlicensed radio apparatus.

Chapter 18. SECTION 18—LAND TENURE, SETTLEMENT, VALUATION, ETC.

Table of Contents

[18 A—GENERAL](#)

[18 B—CROWN LANDS](#)

[18 C—MAORI LANDS](#)

[18 D—SURVEYS AND MAPS](#)

[18 E—VALUATION OF LAND](#)

18 A—GENERAL

OCUPATION OF LAND.—The total area of New Zealand, excluding the island territories comprising Cook and associated islands and Tokelau Islands, and exclusive of the trust territory of Western Samoa, but inclusive of the *minor* islands such as these form parts of land districts, is 66,390,700 acres. Of this total, 43,321,602 acres were assessed in 1953 as being in occupation, including reserves and Maori lands leased, but excluding areas within borough boundaries, holdings of less than 1 acre in extent, and Maori land held on the communal system.

The number of holdings and percentages of total holdings in occupation, grouped according to size, as returned in each of the years 1941, 1946, 1949, and 1952, are given below.

Area, in Acres	Number of Holdings				Percentage of Total			
	1941	1946	1949	1952	1941	1946	1949	1952
Land under 10	11,265	11,380	11,463	12,363	13.04	13.20	13.16	13.69
10 and under 50	14,585	14,014	13,611	13,716	16.89	16.25	15.63	15.39
50 and under 100	12,739	12,813	12,963	13,460	14.75	14.86	14.89	14.91
100 and under 200	16,646	16,699	17,250	18,104	19.27	19.36	19.81	20.05
200 and under 320	9,861	9,862	10,084	10,308	11.42	11.44	11.58	11.42
320 and under 640	10,202	10,392	10,653	11,083	11.81	12.05	12.23	12.27
640 and under 1,000	4,154	4,154	4,215	4,282	4.81	4.82	4.84	4.85
1,000 and under 5,000	5,883	5,882	5,827	5,866	6.81	6.82	6.69	6.50
5,000 and under 10,000	544	556	538	535	0.63	0.64	0.62	0.59
10,000 and under 20,000	294	287	278	276	0.34	0.33	0.32	0.31
20,000 and under 50,000	145	145	144	143	0.17	0.17	0.17	0.16
50,000 and over	55	56	51	52	0.06	0.06	0.06	0.06
Totals	86,373	86,239	87,076	90,288	100.00	100.00	100.00	100.00

Although approximately 44 per cent of holdings in 1952 were less than 100 acres in extent, the total area of such holdings represented only a little over 3 per cent of the occupied land of New Zealand. A further 20 per cent of the holdings ranged between 100 and 200 acres, but the aggregate area of these amounted to less than 6 per cent of the total. At the other end of the scale it is found that 65 per cent of the occupied land was held in areas of 1,000 acres and upwards, although the number of such holdings was only a little over 7½ per cent of the total. Holdings of 5,000 acres and upwards, of which there were 1,006 in 1952, accounted for 39 per cent of the total area of occupied land.

The total acreage of holdings in each group is given in the following table.

Area of Holdings, in Acres	1941	1946	1949	1952
	Acres	Acres	Acres	Acres
1 and under 10	52,525	52,938	53,053	56,401
10 and under 50	374,038	356,797	344,548	346,400
50 and under 100	925,878	936,146	949,958	989,287
100 and under 200	2,330,867	2,338,315	2,411,342	2,536,230
200 and under 320	2,476,209	2,468,817	2,527,401	2,584,876
320 and under 640	4,614,325	4,697,290	4,823,068	5,011,073
640 and under 1,000	3,307,731	3,302,224	3,349,984	3,470,297
1,000 and under 5,000	11,517,582	11,498,507	11,377,539	11,367,370
5,000 and under 10,000	3,707,175	3,793,591	3,661,138	3,670,182
10,000 and under 20,000	4,133,400	4,012,385	3,891,586	3,870,948
20,000 and under 50,000	4,406,409	4,408,209	4,457,035	4,404,001
50,000 and over	5,042,198	5,214,789	4,864,847	4,912,638
Totals	42,888,337	43,080,008	42,717,499	43,219,703

The following additional details not normally obtained in the annual collection were collected under the special Census of Agriculture in 1950:

Holdings at 31 January 1950	Number	Percentage of Total
Occupied by Maoris	4,655	5.16
Worked on share system	2,678	2.97
Lying entirely idle and unused	2,270	2.51
Statute of occupier—		
Owner	55,088	61.01
Lessee	17,844	19.77
Manager	2,532	2.80
Partner	1,242	1.33
Shareworker	2,303	2.55
Part owner, part lessee	11,281	12.49
Totals	90,290	100.00

Condition of Occupied Land.—The land in occupation in New Zealand at 31 January 1953 was classified according to condition and use as follows.

	Acres	Percentage of Total
In principal cereal crops and crops for threshing*	391,678	0.91
In green, root, and other crops*	738,885	1.71
In fallow	173,626	0.40
In sown grasses and clovers—		
Cut for hay, seed, or ensilage	1,000,607	2.31
Not cut for hay, seed, or ensilage	16,574,439	38.26
In vineyards and orchards	22,604	0.05
In passion-fruit vines	96	
In hop vines	611	
In market gardens and nurseries	17,060	0.04
In private gardens and pleasure grounds	92,457	0.21
In plantations	949,533	2.19
Total area in cultivation	19,961,596	46.08
Unimproved land	23,360,006	53.92
Total area in occupation	43,321,602	100.00
* Includes areas also sown with grasses and clovers.		

Information collected in 1950 in conjunction with the World Census of Agriculture showed that 60 per cent of the area under sown grasses was stated as being capable of cultivation by ploughs or discs. Of the total area in occupation, 34 per cent was considered to be capable of being so cultivated.

Land in cultivation (under crop and in pasture) forms the subject matter of the Section on agricultural and pastoral production immediately following. An indication of the condition and geographical distribution of unimproved land is afforded by the following table, which relates to the position at 31 January 1953.

Land District	Phormium (New Zealand Flax)	Tussock and Naturally Established Native Grasses		Fern, Scrub, and Second Growth		Standing Native Bush		Barren and Unproductive Land		Total, Unimproved Occupied Land	
		Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
North Auckland	2,556	125,959	855,809	298,794	81,993					1,365,111	
South Auckland	925	69,334	1,004,067	399,411	90,115					1,563,852	
Gisborne	125	74,200	239,175	158,678	21,459					493,637	
Hawke's Bay	329	315,007	346,071	127,022	44,851					833,280	
Taranaki	12	9,124	199,917	228,168	14,616					451,837	
Wellington	7,530	481,519	672,343	295,958	93,286					1,550,636	
Marlborough	4,985	1,365,001	278,897	124,938	280,896					2,054,717	
Nelson	2,692	192,816	363,071	230,866	13,835					803,280	
Westland	6,209	55,543	211,967	357,823	120,363					751,905	
Canterbury	3,726	4,155,605	288,898	152,920	534,224					5,135,373	
Otago	3,277	5,225,359	581,948	332,880	418,838					6,562,302	
Southland	6,685	1,229,541	426,803	94,277	36,770					1,794,076	
Totals	39,051	13,299,008	5,468,966	2,801,735	1,751,246					23,360,006	

Tenure of Occupied Lands.—The area of land in occupation as at 31 January 1953, classified according to tenure, was as follows.

	Acres
Crown land (including leases and licences)	18,456,462
Freehold (including all land held on deferred payment)	21,688,591
Leased from private individuals	
Leased from public bodies	3,176,549
Leased from Maoris	
Total occupied area	43,321,602

Lands in occupation are not strictly comparable with Crown lands alienated or in process of alienation, for certain lands which were never made waste lands of the Crown have passed into the hands of Europeans. It must also be remembered that not all of the freehold land is in occupation, while (as stated previously) holdings within boroughs or under 1 acre in extent are excluded from the annual statistics.

PUBLIC AND SCENIC RESERVES, PUBLIC DOMAINS, AND NATIONAL PARKS.—The major legislation in relation to the reservation of land, Crown or private, for scenic, thermal, or historic reserves, has been hitherto contained in the consolidating Scenery Preservation Act 1908 and its amendments of 1910, 1915, 1926, 1933, 1938, and 1940. The reconsolidation, amendment, and improvement of the statute law relating to these kinds of reservations and to public reserves and to public domains has engaged the attention of the Lands and Survey Department in recent years. The Reserves and Domains Act 1953 gave effect to these contemplated measures, consolidating and amending the Public Reserves and Domains Act 1928 and the Scenery Preservation Act 1908. The main objective of the legislation is to provide for the general administration and overall policy control of all reserves.

The National Parks Act 1952 consolidated and amended the law relating to national parks. It provides for the establishment of a National Parks Authority whose general functions are to—(a) advocate and adopt schemes for the protection of national parks and for their development on a national basis, (b) recommend the enlargement of existing parks and the setting apart of new ones, (c) recommend the manner of allocation of moneys voted by Parliament for the administration, maintenance, and improvement of national parks, (d) exercise such powers and duties as the Act confers upon it, and (e) generally control in the national interest the administration of all national parks in New Zealand.

Each national park is controlled and managed by a National Park Board, which has power, subject to the prior consent of the Authority, to fix fees for camping or picnicking within the park.

Since the National Parks Authority was constituted its functions and policy have been made public and are being carried into effect. During the year two new parks were created—the Mount Cook National Park and an area (as yet unnamed) comprising mainly the catchment basin of Lakes Wakaremoana and Waikareiti.

The policy of the Authority includes encouragement, when the need has been established, for the provision of suitable hostels and accommodation houses, camping grounds, etc., by the Tourist Department, private interests, or in special circumstances, by national park boards. The erection of mountain huts for the use of club members in national parks where there are mountaineering, ski-ing, or other regular or seasonal activities, will be facilitated. Taking of specimens of all kinds from the parks will be prohibited except for scientific, educational, or like purposes, but it is intended to encourage scientific surveys and signpost interesting features. The Authority intends to foster the publication of descriptive booklets to interpret the parks and their geology, botany, and zoology in simple terms, and to encourage the production of films to teach the importance of national parks to both young and old persons.

The Reserves and Domains Act 1953 replaced with amendments both the Scenery Preservation Act 1908 and the Public Reserves and Domains Act 1928. New provisions have been incorporated relating to historic reserves, the purpose of which is to preserve in perpetuity as historic places for the use, benefit, or enjoyment of the public such places, objects, and things as are of historic, archaeological, scientific, educational, or other special interest. Otherwise the main changes relate to the procedure for constituting reserves, changing the purposes of reservation, revoking reservations, and the appointment of various Boards and other administering bodies, and provide that a notice by the Minister of Lands published in the Gazette will replace the former procedure requiring the issue of Orders in Council.

Provision is made for the appointment of an officer of the Department of Lands and Survey as the Director of Reserves, and for the appointment of rangers for reserves generally, and not only for scenic reserves.

The provisions relating to public reserves in the Act do not extend to State forest land and are to be read as subject to any other enactment or trust dealing with any particular reserve or class of reserves.

The existing provisions are re-enacted that land reserved for a specified purpose may be held and administered for that purpose only, and that a local authority may declare land vested in it to be a public reserve. Domains and recreation reserves may be leased to any local authority for development for recreational purposes for terms of up to thirty-three years, with or without right of renewal. Temporary licences to occupy reserves, including scenic reserves, may be granted for terms not exceeding five years.

New provisions regarding recreation reserves include increasing the number of days on which admission charges may be made from twenty to forty, increasing the number of consecutive days on which exclusive use of the reserve is granted from three to six days, and provide that with the consent of the Minister buildings may be erected on the reserve for Plankton rooms, rest rooms, children's play centres, kindergartens, and community centres used for non-profit making purposes, and that portions may be set aside as camping grounds.

The purposes of scenic reserves are also defined in general terms in the Act as the preservation, for the benefit and enjoyment of the public, of suitable areas possessing such qualities of scenic interest that their preservation is desirable in the public interest. They are to be preserved as far as possible in their natural state and the public are to have freedom of entry and access, subject to such restrictions and prohibitions as are necessary for the preservation of the natural features of the reserves.

The Minister is authorized to mark and protect historic places, to promote excavations and scientific investigations for the discovery and preservation of historic relics, chattels, and other things, and to take necessary steps to manage and preserve historic reserves and to make them accessible under proper conditions to the public.

WILDLIFE SANCTUARIES.—The Wildlife Act 1953, consolidating with amendments the Animals Protection and Game Act 1921–22, provides for the constitution of wildlife sanctuaries, these being areas devoted primarily as habitat areas for wildlife where the maximum degree of protection can be afforded. Restrictions are imposed on entry into the sanctuaries and certain prohibitions dealing with killing or disturbance of wildlife are imposed. The former game sanctuaries are now to be termed wildlife refuges, and a new provision authorizes occupiers of any land in a wildlife refuge to carry out certain operations necessary for carrying on the normal use of the land.

LAND TRANSFER AND DEEDS REGISTRATION.—Under the land transfer system introduced in 1870 the title to land is not affected by the execution of documents. Registration is the fundamental principle, and it is only on registration that any interest passes. The Land and Deeds Registry assumes all responsibility for the registration, and any person named in the register as taking an interest under a registered instrument acquires a practically indefeasible title.

The land transfer system of title by registration has great advantages over the older system of title by deeds, even when the deeds are duly registered. The state of a land transfer title can be ascertained by a search of the register with very much greater facility than can the state of a title under the deeds system, and the powers vested in Registrars under the Land Transfer Act enable them to keep the register simple, clear, and free from doubt; the simplicity of searching and of the preparation of instruments under the land transfer system enables transactions with land under that system to be carried out at less cost than under the deeds system; and under the land transfer system there is the State guarantee of a practically indefeasible title, as mentioned previously.

These considerations led to the passing in 1924 of the Land Transfer (Compulsory Registration of Titles) Act, which had for its object the bringing under the provisions of the Land Transfer Act of all land alienated by the Crown and not already under the provisions of that Act, except lands held by Maoris under their customs and usages.

The work of bringing all land titles under the provisions of the Land Transfer Act as required by the Land Transfer (Compulsory Registration of Titles) Act 1924 has been completed for all practical purposes. There are in each district, however, several titles that it has been considered unwise to deal with at present owing to grave doubts as to ownership, or for some other reason.

The Land Transfer Act 1952, which came into force on 1 January 1953, consolidated the Land Transfer Act 1915 and its amendments. This Act assembles the existing legislation into one Act, but makes very little change in the law.

Deeds Registration.—Provision has existed since 1841 and is now contained in the Deeds Registration Act 1908 for the registration of deeds and instruments affecting land which is not subject to the provisions of the Land Transfer Act. Registration is not essential to the validity of the instrument, but it is highly important as a record and to secure priority. The Act provides that every deed shall be void as against any person claiming for valuable consideration under any subsequent deed duly registered, unless the earlier deed was registered before the subsequent one. The Department is not responsible for the form or matter of the instruments registered beyond seeing that they are duly stamped and contain a sufficient description of the land to identify it. Provision is made for the deposit of instruments in the Deeds Registry Office for safe custody and reference, and such deposit operates as a release from any covenant for production. The Deeds Index and all recorded and deposited instruments are open to public inspection, and certified copies may be obtained on payment of the prescribed fees. (This system of deeds registration is now for all practical purposes obsolete.)

Information as to transactions under the Deeds Registration Act for each of the years 1942–43 to 1952–53 is given in the following statement.

Year Ended 31 March	Deeds	Fees
	Recorded	£
1943	263	205
1944	261	236
1945	196	187
1946	221	200
1947	139	152
1948	135	148
1949	79	100
1950	61	73
1951	84	88
1952	42	51
1953	46	52

Land Transfer.—Information as to applications to bring land under the Land Transfer Act during each of the last five years is given in the next table.

Year Ended 31 March	Number	Area		Value
		Town and Suburban	Country	
		Acres	Acres	£
1949	4	1	477	740
1950	9	7	35	5,830
1951	10	5	322	5,654
1952	20	25	48	3,841
1953	27	3	109	5,431

Certificates of Title Issued.—The following table shows the number of certificates issued for the last five years.

Year Ended 31 March	In Lieu of Crown Grants	Under Transfer Act of 1924	Ordinary	Total
1949	910	130	16,262	17,302
1950	901	355	18,400	19,656
1951	940	301	20,55	21,794
1952	1,553	133	21,977	23,663
1953	2,746	34	19,983	22,763

The table next following shows transfers registered under the Land Transfer Act during each of the last eleven years.

Year Ended 31 March	Town and Suburban Properties			Country Properties			All Properties: Total Consideration
	Number	Area	Consideration	Number	Area	Consideration	
		Acres	£		Acres	£	
1943	22,893	8,505	17,251,884	4,764	733,198	6,883,486	24,135,370
1944	26,779	9,825	24,563,740	6,922	1,404,834	13,581,418	38,145,158
1945	26,377	9,684	21,359,326	6,907	1,282,036	11,099,582	32,458,908
1946	31,239	10,938	25,393,089	6,821	1,310,557	12,961,052	38,354,141
1947	34,685	12,221	27,208,158	8,309	1,844,048	17,764,342	44,972,500

Registry	Number Brought Forward From Previous Year	Number Lodged	Dismissed	Allowed in Part	Allowed in Full	Withdrawn	Referred Back to Committees or Adjourned	Total Number Disposed of	Number Remaining to be Disposed of
Hokitika									
Christchurch									
Dunedin	2		1			1		2	
Invercargill									
Totals	14	3	4	3	3	5		16	1

18 B—CROWN LANDS

The Crown lands are now administered under the authority of the Land Act 1948 and its amending Acts of 1950, 1951, and 1952. The principal Act consolidated into one Act all previously existing legislation relating to the lands of the Crown and also made certain amendments thereto. The Acts so consolidated and amended were the Land Act 1924, the Land for Settlement Act 1925, those provisions of the Education Reserves Act 1928 which relate to education reserves administered by a Land Board, the Hammer Crown Leases Act 1928, the Small Farms Act 1932–33, and the amendments to those Acts. It also repealed, but did not re-enact, the Discharged Soldiers' Settlement Act 1915, the Hunt Valley Lands Settlement Act 1925, the Deteriorated Lands Act 1925, the Fruit Farms Settlement Act 1910, and the amendments to those Acts. The distinction that existed between Crown land subject to the various enactments mentioned was abolished by the new Act.

The Minister of Lands is charged with the administration of the Land Act, and his executive officer is the Director-General of Lands, who is the Permanent Head of the Department of Lands and Survey.

New Zealand is divided into twelve land districts, the executive officer for each district being a Commissioner of Crown Lands. The Act abolished the former Land Boards and vested their powers, rights, obligations, etc., in a central authority entitled the Land Settlement Board. This Board consists of the Minister of Lands (Chairman), the Director-General of Lands (Deputy Chairman), the Secretary to the Treasury, the Director-General of Agriculture, the Valuer-General, a representative of the State Advances Corporation, the Director of Rehabilitation, the Assistant Director-General of Lands, the Fields Director of the Department of Lands and Survey, a representative of the New Zealand Returned Services' Association, and not more than two other persons to be appointed by the Governor-General.

The duties of the Board are broadly defined in the Act as follows:

It shall be the duty of the Board to carry out the provisions of this Act for the administration, management, development, alienation, settlement, protection, and care of Crown land; and to carry out all negotiations for the purchase of land by the Crown under this Act, and the performance and completion of all contracts of purchase so entered into by the Crown.

To replace the former District Land Boards, the Land Settlement Board was required to appoint one or more Land Settlement Committees for each land district, and sixteen of these Committees have been set up. Each Committee consists of three members, including the Commissioner of Crown Lands for the land district as Chairman. The Board may also appoint as an associate member of any Committee any person who in the opinion of the Board possesses expert knowledge of advantage to the Committee in the execution of its functions, but associate members have no voting powers. The Committees have no functions expressly set out in the Act, but the Board has wide powers of delegating to Committees any of its functions.

METHODS OF ACQUIRING CROWN LAND.—A selector may purchase for cash, or on deferred payments, or may select on renewable lease. The normal practice is for applications to be invited for any vacant Crown lands, and for the successful applicant to be selected by ballot, although in certain circumstances preferential allotment can be made. Under legislation introduced by the Land Amendment Act 1950 any urban or commercial or industrial land may be offered for disposal by tender at a minimum price or rental value or by public auction at an upset price. Every applicant must be of the age of seventeen years or upwards, and may apply for Crown land solely for his own use or benefit, and not directly or indirectly for the use or benefit of any other person. Two or more persons may make application to purchase or take on lease or licence as joint tenants in common. No application for Crown land will be granted if, having regard to the land already owned, leased, held, or occupied under any tenure of more than one year's duration, the acquisition of additional land would, in the opinion of the Board, amount to undue aggregation of land. An application will also be refused if the Board considers that the land is intended to be used for speculation or for uneconomic purposes.

Crown land may be acquired on the following tenures:

1. Farm land or urban land—(a) On renewable lease; (b) for cash; (c) on deferred payments. A renewable lease is for a term of thirty-three years with a perpetual right of renewal for the same term, and, except where otherwise provided for, with a right of acquiring the fee simple. The board may, however, determine that any specified land may be taken on renewable lease only, but without the right of acquiring the fee simple.
2. Commercial and industrial land—(a) On renewable lease for thirty-three years; (b) on lease for any term, but so that the aggregate term, including the renewals (if any), does not exceed fifty years. These lands may be now acquired in the same manner as urban or farm land, including the right of freehold.
3. Pastoral land—(a) On pastoral lease for a term of thirty-three years with a perpetual right of renewal for the same term, but with no right of acquiring the fee simple; (b) on pastoral occupation licence for a term not exceeding twenty-one years.
4. Short tenancies for grazing or other purposes for a term not exceeding five years.
5. Land for communal grazing—The Board may grant a lease or licence for any Crown land to any person or group or association of persons, or to any body corporate, for use as communal grazing. The term is for a period not exceeding thirty-three years, with or without a right of renewal and subject to such conditions as the Board may decide.
6. Unclassified land—Where in the opinion of the Board any Crown land available for disposal cannot properly be classified as farm land, urban land, commercial or industrial land, or pastoral land, the Board may sell or grant a lease for any term not exceeding thirty-three years, with or without a right of renewal, perpetual or otherwise, for the same term.

Every holder of a lease or licence is required to effect within a certain specified period such improvements as the Board determines. In most cases the lessee or licensee of any farm or pastoral land is required to commence to tend on the land within one year after the date of his licence.

LAND DEVELOPMENT.—The Land Act empowers the Land Settlement Board to carry out such development works as may be required to improve the quality or condition of any Crown land or to make it fit for settlement. This includes the erection of buildings, and the Board may carry on all usual farming activities on land developed or being developed until the time is appropriate for the disposal of the land on permanent tenure.

The Board may also make advances or readvances to lessees or licensees of Crown land to assist them in the development of their holdings. Purposes for which advances may be made include erection, improvement, etc., of buildings; clearing, draining, fencing, cultivation, grassing; provision of electric power, telephone services, and water; purchase of fencing materials, fertilizers, implements, etc.; and purchase of live-stock.

The Government announced in March 1954 that while land would continue to be purchased and developed for the settlement of A grade ex-servicemen as long as there was the necessity, a start had been made with the settlement of civilians by the introduction of a general land settlement scheme.

SELECTIONS UNDER SETTLEMENT CONDITIONS.—As stated earlier, the Land Act 1948 consolidated all enactments relating to lands of the Crown and abolished the distinctions between ordinary Crown land (that is, land subject to the Land Act 1924), settlement land, Education reserve endowments, and small farms land; all these lands are now simply Crown land subject to and administered under the Land Act 1948. The numerous tenures under which Crown land could be held (approximately forty different tenures) are replaced by four principal ones—sale for cash, sale on deferred payments, renewable lease, and pastoral lease or licence.

The following table shows details of the various freehold selections during the year 1952–53, together with totals for 1951–52.

Freehold	Number of Selectors	Total Area Selected	Purchase-price
		Acres	£
Crown lands—			
Farm land	289	7,644	77,869
Urban land	393	136	96,986
Commercial or industrial land	15	14	12,225
Lands freehold pursuant to section 67, Land Act	1	3	2
Totals, 1952–53	698	7,797	187,082
Totals, 1951–52	628	12,985	238,596

Corresponding details concerning selections made under leasehold tenures are now given for similar periods.

Leasehold	Number of Selectors	Total Area Selected	Annual Rental	Annual Instalment
		Acres	£	£
Crown lands—				
Renewable lease—				
Farm	280	133,739	29,455	370
Urban	30	13	228	59
Commercial or industrial	1	1	4	
Pastoral leases	5	72,354	1,357	54
Pastoral occupation licences	2	13,600	118	
Deferred-payment licences—				
Farm	106	15,472		10,664
Urban	338	406		11,900
Commercial or industrial	28	404		5,670

* Areas and rentals not included, as licences are on royalty basis only.

Leasehold	Number of Selectors	Total Area Selected	Annual Rental	Annual Instalment
Special leases under section 67, Land Act	15	6,611	452	
Special leases under section 165, Land Act*	14			
Grazing and other leases, section 68, Land Act	1,223	62,597	8,257	7,849
Totals	2,042	305,197	39,871	36,566
Endowment lands—				
Westport Harbour Board endowments	1	2	2	
Special leases under section 165, Land Act*	2			
Sundry tenures	10	295	580	
Grand totals, 1952–53	2,055	305,494	40,453	36,566
Grand totals, 1951–52	1,912	1,624,122	56,420	19,996

* Areas and rentals not included, as licences are on royalty basis only.

It is interesting to note that in both freehold and leasehold selections the numbers have increased over those published last year, when there were 628 and 1,912 cases respectively. However, the areas involved have shown a decrease, the most marked being in respect of the leasehold selections. This is occasioned by the fact that there was little business involving the pastoral areas during the current year, whereas well over 1,000,000 acres in this category were dealt with last year. The total number of selections for the year is 2,753 over 313,291 acres, the respective figures for last year being 2,540 and 1,637,107. The figures embrace farm, urban, and industrial lands and include temporary tenancies.

CROWN LAND HELD UNDER LEASE OR LICENCE.—Since the Land Act 1948 came into operation on 1 April 1949 any new leases issued have been under that Act. The following table shows the leases current as at 31 March 1953. Part (a) gives details of those leases which have been issued under the Land Act 1948, while Part (b) shows the leases issued under Acts prior to the Land Act 1948 and which were still current at 31 March 1953. The numbers of leases in the second Part will gradually diminish as the leases concerned expire and lessees on renewal are given a new lease under the Land Act 1948.

The following table summarizes the year's operations in the various tenures under the Land Act 1948. The total number of leases and licences current as at 31 March 1953 was only 58 less than at the same time last year, the area being only 105,534 acres less. This is due to the fact that the number of new leases and licences issued under the Land Act 1948, mainly from selections, renewals, or conversions, almost equalled the number of those freeholded, paid-off, converted, or expired.

Tenure	Number	Area	Annual Rent	Annual Instalments (Including Improvement Loadings)
<i>(a) Tenures Under the Land Act 1948</i>				
Crown land—				
Renewable leases—		Acres	£	£
Farm	2,121	1,284,056	193,523	4,411
Urban	379	254	2,501	89
Industrial	16	24	578	
Pastoral leases	77	1,582,792	18,170	116
Pastoral occupation licences	36	686,886	4,391	
Deferred-payment licences—				
Farm	664	226,474		61,030
Urban	618	630		19,795
Industrial	44	1,254		8,296
Special leases (section 67, Land Act)—				
Renewable—				
Farm	13	1,299	455	446
Urban	2	7	28	
Non-renewable—				
Farm	8	1,912	175	
Urban	3	10	258	
Licences for removal of minerals*	60			
Flax leases	1	38	1	
Miscellaneous licences	4,701	346,252	28,643	115
Totals, Crown land	8,743	4,131,888	248,723	94,298
Endowment lands—				
Leases under section 169, Land Act	5	692	41	
Sundry tenures	87	90,713	3,553	
Totals, tenures under Land Act 1948	8,835	4,223,293	252,217	94,298
<i>(b) Tenures Under Acts Prior to the Land Act 1948</i>				
Crown land—				
Renewable leases	6,676	1,865,292	215,477	4,299
Leases under section 5, Discharged Soldiers' Settlement Amendment Act 1921–22	104	20,695	6,493	243
Special tenure leases	909	271,736	50,919	1,095
Leases in perpetuity	6,645	1,349,227	154,119	39
Perpetual leases	108	5,650	751	
M.D.L.C. leases	422	9,584	1,086	
Pastoral Regulation licences (mining districts)	244	44,354	1,169	
Small grazing-run leases	523	1,743,520	49,825	80
Pastoral run licences	464	5,370,130	53,239	65
Education reserves; Public Bodies' Leases Act	1,807	226,341	40,871	168
O.R.P. licences	129	30,287	2,944	
Deferred-payment licences	1,462	316,409		44,500
Miscellaneous licences	1,762	374,372	13,849	27
Small-farm leases	73	2,731	851	
Agreement, sale, and purchase, Waikato Land Settlement Society		Acres	£	£
Settlement Society	14	1,247		1,613
Hammer Crown leases	148	326	715	
Cheviot grazing farm leases	15	21,227	4,963	
Leases under Education Lands Act—				
Leases	399	121,003	25,959	250
Temporary tenancies	77	423	3,354	
Sundry leases	36	4,022	1,282	47
Totals, Crown land	22,017	12,178,576	627,866	52,426
Endowment lands—				
Westport Harbour Board endowment	601	14,029	1,726	
Otago University endowment	9	69,442	2,257	
Lower Clutha River Trust	7	27,197	752	

* Area and rentals not included, as licences on royalty basis only.

Tenure	Number	Area	Annual Rent	Annual Instalments (Including Improvement Loadings)
Thermal Springs licences	95	102	358	
Sundry other endowments	92	117,660	3,561	29
Totals, tenures under Acts prior to Land Act 1948	22,821	12,407,006	636,520	52,455
Grand totals, all tenures	31,656	16,630,299	888,837	146,753

* Area and rentals not included, as licences on royalty basis only.

LEASES AND LICENCES FREEHOLD OR CONVERTED TO OTHER TENURES.—Eleven lessees and licensees converted their existing tenures to new tenures available under the Land Act 1948. The area involved, all of which related to farming land, totalled 12,336 acres. During the previous financial year twelve conversions totalling over 5,034 acres were recorded. Particulars of the transactions which were involved during the current year are as follows, the details being in respect of those conversions where action has been completed.

Conversions to Other Tenures	Number	Area
Conversions to—		
Renewable leases—		Acres
Farm (section 126, Land Act)	10	12,249
Deferred-payment licence—		
Farm (section 127, Land Act)	1	87
Totals	11	12,336

Although a number of lessees and licensees who applied during the year ended 31 March to freehold their holdings was not as great as it has been during the two previous years, it is evident from the following particulars that there are many who are desirous of acquiring freehold titles. During the year 854 applications were completed, the area involved being 145,677 acres and the purchase prices paid totalled £742,331. These figures do not relate to the actual number of applications lodged, nor do they include particulars of deferred-payment licences paid off. Last year's figures were 1,364 cases over 272,335 acres and involved a total purchase price of £1,498,967. Details are given in the following table.

Leases and Licences Freehold	Number	Area	Purchase Price
For cash—		Acres	£
Crown lands	601	86,986	366,959
Endowment lands	8	8	9,705
On deferred payments—			
Crown lands	244	58,682	362,650
Endowment lands	1	1	3,017
Totals	854	145,677	742,331

PURCHASE OF LAND FOR SETTLEMENT.—The Land Act 1948 authorizes the Land Settlement Board to purchase private land or the interest of any lessee or licensee in any Crown land or Maori land for the purposes of settlement as farming, urban, commercial and industrial, or pastoral land. The Service's Settlement and Land Sales Act 1943 also authorized the purchase of privately-owned lands, and, in addition, gave power to acquire farm land compulsorily for the settlement of ex-servicemen. This latter power was also contained in the Service's Settlement Act 1950, which expired on 30 June 1952. By section 3 of the Land Settlement Promotion Act 1952 power is given to the Minister of Lands, under certain conditions, to take any farm land suitable for settlement, where additional farm land is required for settlement of landless discharged servicemen and others requiring land on which to establish themselves in farming (see p. 403).

ASSISTING PRIVATE PURCHASE OF LAND.—Where the Land Settlement Board is satisfied that the area of Crown land held by any lessee or licensee is too small to be successfully occupied as a single unit, it may authorize the making of an advance to enable him to purchase the interest of a lessee or licensee in any other Crown land which can be conveniently farmed with the land already held.

LAND FOR DISCHARGED SERVICEMEN.—Authority is contained in the Land Act 1948 for the granting of a lease or licence over Crown land to a discharged serviceman without competition. The Act also provides that where there are simultaneous applications for Crown land and, in the opinion of the Land Settlement Board, there are two or more applicants who are equally suitable to be allotted the land, an applicant who is a serviceman or a discharged serviceman or the wife or widow of a serviceman or discharged serviceman shall have preference over all other classes of applicants.

Land is acquired by the Crown for the purposes of settling ex-servicemen under the following methods:

- By the purchase of privately owned properties;
- By the setting apart for the purposes of the Act of Crown lands subject to the Land Act 1948;
- By the resumption by the Crown of land already held under Crown lease or licence;
- By the provisions of section 3 of the Land Settlement Promotion Act 1952 giving power to the Minister to take farm land under certain conditions. The owner has the right to retain an area which is, or will provide, the equivalent of two economic farms and, in addition, will provide for an economic farm for each of his children under twenty-one years of age and, at the Minister's discretion, for each child of the owner over twenty-one years who is likely to follow farming as a career.

The following table contains particulars of land acquired for development and for the settlement of ex-servicemen during the year ended 31 March 1953, and from the commencement of the scheme to 31 March 1953; also shown are those areas made available for settlement and the balance on hand at the latter date. The figures do not include particulars relating to ex-servicemen who have been assisted by way of rehabilitation loans to purchase established farms on their own account. Further information concerning the settlement of ex-servicemen on the land will be found in Section 9B, "Rehabilitation".

Land for Settlement of Ex-servicemen	Year Ended 31 March 1953		From Inception to 31 March 1953	
	Area	Estimated Number of Units	Area	Estimated Number of Units
	Acres		Acres	
Purchased by voluntary negotiation	37,478	85	975,913	1,903
Acquired compulsorily under Part II of Service's Settlement and Land Sales Act 1943 and Part I of the Service's Settlement Act 1950	1		118,986	379
Acquired compulsorily under section 51 of Service's Settlement and Land Sales Act 1943 or section 31 of Service's Settlement Act 1950	4,513	14	163,787	565
Properties where ex-servicemen substituted under section 31 (3) (b) of Service's Settlement Act 1950	6,849	30	17,390	79
Totals, 1952-53	48,841	129		
Totals, 1951-52	98,543	252		
Totals, inception to 31 March 1953			1,276,076 ¹	2,926 ²
Less areas utilized ³			112,914	139
Balance			1,163,162	2,787
Areas of Crown land set aside as suitable for ex-servicemen			301,653	1,077
Total area for ex-servicemen			1,464,815	3,864
Allotments made to ex-servicemen at 31 March 1953—				
(a) On fixed charges (2,629 units)		Includes 79 substitutions under section		
(b) On wages with promise of permanent allotment on completion of development (77 units)		31	1,053,798	2,706
Balance area on hand for allotment on completion of development			411,017	1,158

¹ Areas and units acquired since the inception of the scheme have been reconciled and adjustments made to the totals on account of surveys and amendments to utilization.

² Comprising some properties or portions thereof used for the following purposes: (a) For settlement of Maori ex-servicemen by the Maori Affairs Department; (b) for experimental purposes by the Department of Agriculture; (c) areas unsuitable for farming used for afforestation purposes by the New Zealand Forest Service; (d) for adjustment of boundaries with adjoining owners; (e) areas requiring long-term development; (f) areas for settlement of other than Grade A ex-servicemen.

Rent under the small farms renewable lease is based on the unimproved value of the land at the date of the lease or renewal, and in the case of discharged servicemen is calculated at the rate of 2 per cent of such unimproved value for the first year and 3 per cent for the balance of the first term.

The amount of the value of the improvements on the land at the date of the lease is deemed to have been advanced to the lessee and is secured by mortgage of the lease, the mortgage being secured to the State Advances Corporation, which extends interest concessions and gives the same terms as are given in respect of mortgages of freehold properties. The State Advances Corporation also has power to make advances on its usual terms for stock, chattels, or further improvements.

Provision was made in the Land Amendment Act 1950 for the granting of suspensory loans in cases where an ex-serviceman was settled on Crown land after the commencement of the Service's Settlement Act 1950 and had been granted rehabilitation assistance for the purpose. This loan, which was not to exceed the difference between the 1942 value and the current market value, was not enforceable so long as the purchaser resided personally on the land and farmed it exclusively for his own use, etc. If the purchaser carries this out for ten years, the loan is discharged.

18 C—MAORI LANDS

DEFINITION AND KINDS OF MAORI LANDS.—Maori land is of two kinds—namely, customary land and Maori freehold land. Customary land is land which has never been the subject of a Crown grant and is held by Maoris under the customs and usages of the Maori people. It is land in respect of which the ancient customary Maori title as recognized by the appropriate provisions of the Maori Land Act 1931 has not yet been extinguished. Such land, since it has not been Crown-granted, remains vested in the Crown, subject, however, to the customary title of the Maoris, and to their right to have the customary title transformed into a freehold title by the Maori Land Act. There is little of this class of land now left in New Zealand.

Customary land has always been restricted from alienation except in favour of the Crown. By the Treaty of Waitangi the exclusive right to purchase such land was reserved to the Crown, and in all statutes since passed the alienation of customary land to private individuals has been prohibited, and this prohibition is now extended to the Crown. Maori freehold land is the land held by Maoris under an ordinary freehold title, though subject to certain restrictions on alienation and other special incidents which are unknown to the ordinary law.

Whether land is Maori or European land depends upon the beneficial ownership of it, and not merely on the legal ownership. If land is held by a European in trust for a Maori, it is Maori land; if it is held in trust by a Maori for a European, it is European land. There are, however, four exceptions to this:

- When land has once become European land it never again becomes Maori land unless by special enactment.
- Land purchased by a Maori from the Crown for a pecuniary consideration is not Maori land. This does not include an exchange of land, with or without a payment of money by way of equality of exchange.
- Land held by a Maori in severalty may be declared to be European land by the Maori Appellate Court.
- Under certain circumstances (see page 309 of 1942 Year-Book) the Maori owner may have been declared a European.

Even though one of many Maori owners may sell, the land remains Maori land until all have disposed of their interests, or until the purchaser has had his interests partitioned off. The term "Maori" includes a half-caste, or a person intermediate in blood between a Maori and a half-caste.

The Maori Land Act 1931 and the Maori Purposes Act 1931 were consolidations, with amendments, of previously existing legislation.

The Maori Affairs Act 1953 replaced most of the provisions of the 1931 Acts and, in addition, amended the law relating to Maori lands in many ways. The Maori Trustee Act 1953 forms another part of the plan for the consolidation of the law relating particularly to Maoris and Maori land. These two Acts are closely related.

By virtue of the Maori Affairs Act 1953 the problem of "uneconomic interests" in Maori freehold land is left to a large extent to the discretion of the Maori Land Court, and only those interests which cannot be otherwise satisfactorily dealt with will be vested in the Maori Trustee.

The Maori Purposes Act 1953 provides for the winding-up of the East Coast Maori Trust.

BOARD OF MAORI AFFAIRS.—The Board of Maori Affairs constituted under the Maori Affairs Act 1953 consists of the Minister of Maori Affairs, the Secretary for Maori Affairs, the Director-General of Lands, the Valuer-General, the Secretary to the Treasury, the Director-General of Agriculture, the member (if any), of the Executive Council representing the Maori race, and three other members appointed by the Governor-General.

The functions of the Board include, *inter alia*, the following:

- The control of the development and settlement of Maori land or land owned or occupied by Maoris.
- The control of expenditure on farming operations undertaken by the Maori Trustee.
- The control of investments by—(a) the Maori Trustee, and (b) the East Coast Commissioner.
- The control of negotiations for the acquisition of Maori lands by the Crown.
- The control of expenditure on housing operations under the Maori Housing Act 1935, as amended in 1938.

MAORI LAND COURT.—The Maori Land Court consists of a Chief Judge and such other Judges as the Governor-General may think fit to appoint. All powers of the Court may be exercised by a single Judge, but there are certain important powers vested exclusively in the Chief Judge. Commissioners are appointed who exercise such jurisdiction of a Judge as the Governor-General authorizes. The chief matters within the jurisdiction of the Court are—

- The investigation of title to customary land, and transforming it into Maori freehold land.
- The exclusive power of partitioning land among the owners.
- The sanctioning of exchanges for other Maori land and European land.
- Granting probates of wills and succession orders to Maoris.
- Making orders for the adoption of children.
- Appointing trustees for Maoris who are minors or under other disability.
- The incorporation of the owners of Maori land.
- The determination of various claims as between Maoris.
- To grant confirmation of alienation of Maori land.

The Maori Appellate Court consists of any two or more Judges of the Maori Land Court, provided that two Judges at least shall concur in every decision of the Court. With certain exceptions the Appellate Court determines appeals, whether on law or on fact, from all final orders of the Maori Land Court.

MAORI TRUSTEE.—The Maori Trust Office was originally created to take over from the Public Trust Office the administration of certain Maori reserves and the administration of the estates of deceased Maoris and those under disability. The Maori Trust Office now forms part of the Department of Maori Affairs and is headed by the Maori Trustee, comparable in status and function with the Public Trustee. The control of most Maori Trustee activities has been decentralized by the delegation of wide powers to the District Officers of the Department of Maori Affairs, who deal primarily with all Maori Trustee matters in their districts.

By the Maori Land Amendment Act 1952 the Maori Trustee took over much of the powers, functions, and property of the former Maori Land Boards abolished by that Act.

The Maori Trustee may be appointed executor of the will of a deceased Maori or administrator of an intestate Maori estate. He may also be appointed trustee to manage the property of Maoris who are minors or suffer from some other legal disability, and is statutory trustee of the estates of Maori mental patients. The Maori Trust Office Regulations 1954 prescribe the rates of commission and fees chargeable by the Maori Trustee and the rates of interest payable in respect of moneys held by him in his Common Fund.

In the past the Maori Trustee has been engaged in fairly extensive farming operations principally in the East Coast district, but this activity is now being discontinued, the control of the various farms and stations being handed back to the interested Maoris.

In addition to the administration of Maori reserves, situated mainly in Taranaki, and in Nelson, Greymouth, and other South Island localities, the Maori Trustee has taken over from the Maori Land Boards the administration of large areas of Maori land elsewhere. Most of these lands are, like the Maori reserves, vested in the Maori Trustee, who is responsible for leasing them and distributing the proceeds to the owners. Another function taken over from the Maori Land Boards is the collection and distribution to owners of rents from most other Maori land under lease.

The Maori Trustee has extensive lending powers used principally for the settlement and improvement of Maori land. Most advances are made on the security of Maori land.

The following table contains a summary of the financial position of the Maori Trustee as at 31 March 1952 and 1953. The particulars of assets and liabilities are for the twelve months ended in those years.

—	As at 31 March	
	1952	1953
Assets—	£	£
Cash	158,391	68,091
Investments—		
Government securities	1,816,780	1,905,409
Local body debentures	3,975	102,551
Mortgages, charges, and advances on overdraft	448,427	500,005
Land, buildings, and miscellaneous	177,251	116,586

	As at 31 March	
	1952	1953
Totals	2,604,804	2,692,642
Liabilities—		
Amounts held for beneficiaries and sundry depositors	2,114,055	2,210,185
Reserves and Appropriation Account	475,723	473,083
Sundry creditors, etc.	15,026	9,374
Totals	2,604,804	2,692,642

POWERS OF ALIENATION.—The ordinary provisions as to alienation of Maori land do not affect the power to dispose of land by will, but a Maori cannot will to a European except it be a husband or wife or other relative of the person making the will. A Maori cannot dispose of customary land, whether by will or otherwise. No alienation of Maori land by a Maori has any effect until it is confirmed by the Maori Land Court.

The Court, before confirming an alienation, must satisfy itself, *inter alia*, that it is not contrary to the interests of the Maori alienating; that no Maori is rendered landless by the alienation; that the consideration is adequate; that the purchase money is paid or secured; and that the alienation is not otherwise prohibited by law.

A lease cannot be for a longer term than fifty years, and a mortgage must have the approval of the Minister of Maori Affairs and confirmation by the Maori Land Court.

With regard to Maori freehold land, the Court during 1952–53 approved of new leases comprising 19,092 acres to Europeans and 16,976 acres to Maoris, the previous year's figures being 22,534 and 10,264 acres respectively. It confirmed transfers (apart from sales to the Crown) affecting 16,430 acres of freehold land to Europeans and 3,954 acres to Maoris in 1952–53, the corresponding 1951–52 figures being 8,805 and 2,411 acres respectively. During the year ended 31 March 1953 timber-cutting rights were confirmed by the Court in respect of 28,353 acres.

PURCHASE OF MAORI LAND FOR THE CROWN.—Since 5 April 1935 the duty of undertaking, controlling, and carrying out all negotiations for the acquisition of Maori lands by the Crown, and the performance and completion of all contracts entered into, is imposed upon the Board of Maori Affairs.

Pending any purchase by the Crown the Governor-General may, by Order in Council, prohibit alienation other than to the Crown. Upon the purchase being completed the land is proclaimed Crown land, and is subject to administration under the Land Act 1948. Where the land is subject to lease when purchased, there may be extended to the tenant the option of purchasing the land from the Crown or having a renewable lease granted to him.

The area of Maori land still held by Maoris in the North Island is estimated at 3,750,000 acres and in the whole of New Zealand at 4,000,000 acres. In many cases the Maoris are utilizing their land for pastoral and dairying purposes. Other lands are being farmed for them by the Maori Trustee and by the East Coast Commissioner.

MAORI LAND DEVELOPMENT.—The main activities in new development during 1952–53 have been in the Rotorua, Waikato - King Country, and Northland districts. In Rotorua the punice lands lend themselves to development by machinery at a cost and with a swift response; in the Waikato - King Country considerable areas are being brought back to production by clearance of noxious weeds; and in Northland the presence of a large Maori population makes development worth while.

In general there is evidence that the standard of Maori farming has recently improved. Increased numbers of farmers are making provision for supplementary winter and summer fodder as well as recognizing the value of rationed grazing by the use of the electric fence. The establishment of training farms in certain areas has shown good results.

In 1952–53, 62 Maori settlers (including 22 ex-servicemen) were settled on economic holdings.

Since the commencement of development to 31 March 1951, 222 settlers had repaid advances and their lands had been released from the provisions of Part 1 of the Maori Land Amendment Act 1936. There were 21 and 52 properties released in 1951–52 and 1952–53 respectively.

Certain statistics on Maori land development are now given.

Item	1951–52	1952–53
Number of settlers actively engaged in farming under departmental supervision	1,531	1,470
Settlers established during year	36	62
Settlers released from control during year	21	52
Settlers actively farming, but under relaxed supervision	195	211
Properties where occupier has sole title (either as owner or lessee)	427	453
Properties where occupier has no sole title	1,104	1,017
Total area gazetted under the Act	Acres 211,166	202,282
(a) Pastures farmed (including some areas not actually gazetted)	Acres 136,991	139,383
(b) Area in rough feed	Acres "	1,849
(c) Area in commercial or domestic crops	Acres "	1,836
(d) Area in course of development	Acres "	2,811
(e) Area undeveloped but suitable for development	Acres "	35,202
(f) Area not suitable for development	Acres "	31,827
Area grassed during year	Acres "	2,526
Butterfat production during season ¹	B. 6,605,952	"
Wool production	Bales 2,283	2,354
Estimated carrying capacity of total area gazetted when fully developed—		
(a) Dairy cows	Number "	60,000
(b) Sheep	Number "	102,000
Number of full-time workers on farms	1,303	1,296
Number of part-time workers on farms	699	742
(a) Casual outside work	"	546
(b) Permanent outside work	"	196
Value of land (unimproved)	£ "	635,047
Value of improvements on the land	£ "	2,621,742
* Not available.		
† Butterfat production during 1950–51 season was 6,219,266 lb.		

18 D—SURVEYS AND MAPS

INTRODUCTORY.—The surveys of Crown lands, Maori lands, land purchased under the former Settlements Acts and the Land Act 1948, lands acquired under the Lands Settlement Promotion Act 1952, and lands acquired taken for public works, are executed under the authority of the Minister of Lands, and are carried out by staff and contract surveyors registered by the Survey Board under the provisions of the Surveyors Act 1938, which came into operation on 1 July 1939. This Act provides that in order to undertake surveys all registered surveyors must hold annual practising certificates, issued by the Secretary of the New Zealand Institute of Surveyors.

The surveys of private lands for the purpose of the Land Transfer Act are carried out by private surveyors similarly registered.

Statutory authority for the surveyor to enter upon any land and to place survey marks thereon is contained in several Acts, and the willful destruction of these marks is subject to a severe penalty.

All surface surveys are made in accordance with regulations laid down and are subject to field check (if thought necessary) and to office examination prior to approval and deposit.

The standard of length is the chain of 22 Imperial yards divided into 100 links, and all linear measurements have to be expressed in terms thereof, and areas in acres, rods, and perches, with decimals of a perch. Standard comparison bands are available in each District Office, as well as at the office of the Surveyor-General.

SURVEY SYSTEM.—Control Survey: Until the abolition of the provincial system of government in 1876 the surveys of New Zealand were conducted by nine survey departments, each independent of the other, and working on no common system. At that date an amalgamation into one department was accomplished. Several of the provincial services had conducted their surveys on a trigonometrical basis, but, as the others were building one survey on another by traverse on magnetic or other azimuthal bearings, without any reference to true meridian or the independent check of triangulation, a state of considerable confusion and uncertainty had arisen in the survey records.

In these circumstances it was necessary to devise a system that would rapidly bring the surveys under control and record, so that settlers might be placed in secure possession of their land, and the Crown be safe to issue titles on reliable plans and descriptions.

The plan adopted was to divide the country into twenty-eight districts, designated "meridional circuits." At the initial or main station of each the astronomical meridian was determined from observations of circumpolar stars, and the latitude from observations of stars north and south of zenith. Lines of bearings on the true astronomical meridian of the initial station were extended throughout its circuit to the plains and valleys where surveys were in

progress. Within three years these standard bearings had been so extended as to enable all the surveys to be conducted on the true meridian of their respective circuits; for, following immediately on this operation, a base line was measured, and a minor triangulation of two- and three-mile sides, starting from one of the stations of the standard bearing, was spread over the country wherever most required for the check and connection of the settlement surveys. In this way New Zealand was placed very quickly under a system of correct recordable survey, readily adjusted to the requirements of a population rapidly spreading over areas widely apart. The intervening spaces have since been filled in, and the network of triangles is a continuous chain extending over the Islands from north to south, a distance of 1,100 miles. Simultaneously with the minor triangulation of the country, a topographical survey was carried on, giving the positions of rivers, plains, mountains, forests; best lines for future roads; altitudes of valleys, passes, and mountains; and generally a correct representation of the features of the country, to a scale of 2 inches to the mile.

Sectional: Each meridional circuit was subdivided into squares with sides of 1,000 chains in length, the meridian and perpendicular through the initial station being taken as the starting point. These squares, called "survey districts," were further divided into sixteen squares called "blocks," with sides of 250 chains in length. The sections for sale or lease were superimposed upon these and numbered consecutively in each block. Thus each section has for the purpose of record and title registration a complete identification by means of its number, the number of the block, and the name of the district. Unfortunately, it was not found practicable to incorporate in this system the sections which had been alienated prior to 1876; and the provincial registration districts—parishes, hundreds, Crown grant districts, squares, etc.—were perpetuated.

In general, sections were surveyed before selection or disposal, and in these cases the sections were set off with due regard to the topography, thus making each section as far as possible a farm unit with good access, water supply, and the other factors which make for the economical working of a farm.

The boundary lines of the sections were marked at all corners by stout pegs and lockpits, with additional marks where lines were long and straight. In bush the lines were cut out and similarly marked at corners.

The main object of the survey is to enable the settlement of lands to proceed on a system which will give the settler the possession of a definite piece of land without fear of future rival claims. The Crown, which guarantees titles, is also freed from embarrassing claims for compensation caused by overlapping boundaries.

Office Computation and Records: The triangulation of each circuit was computed as plane, neglecting the curvature of the earth, and the triangulation stations were co-ordinated on the meridian and perpendicular passing through the initial station. Road and sectional surveys were made by traverses with theodolite and chain, rigidly connected to the triangulation stations, and the traverse points were similarly co-ordinated. All surveys were thus subject to complete mathematical check, and could be recorded by direct plot from co-ordinates. Areas generally were mathematically deduced, graphic methods being used only for those portions bounded by irregular lines such as streams. All surveys were recorded on index maps, on scales varying from 4 inches to a mile in rural districts to 1 inch to 1 chain in urban districts. The original survey plans, field notes, and co-ordinate tabulations are all carefully stored in fireproof strong-rooms and are readily available to surveyors requiring the use of the information contained.

In a new country it is of the first importance that all surveys should stand the mathematical test of reduction to the meridian and perpendicular of a governing trigonometrical survey, for, unlike the surveys of old countries, where time-honoured landmarks and a settled population conserve boundaries, the surveys of a new country have no such aid, but, instead, have to create boundaries, in the unoccupied wilderness, which at best can only be marked by perishable surface marks. Then, again, the frequent changes of ownership of land in New Zealand facilitated by the Land Transfer system, and the responsibility of the Government in guaranteeing all titles under it, are cogent reasons why the rigid mathematical system of reduction of traverse to the meridian and perpendicular of the stations of a trigonometrical survey should be adopted and maintained.

GEODETIC SURVEY.—Increasing Accuracy: On completion of the original triangulation in the meridional circuits it was found that there were considerable discrepancies in the lines on the boundaries of the circuits, which were common to two or more. These discrepancies were caused principally by two factors—the accumulation of observational errors in the triangulation and the want of a common standard of length in the measurement of the bases. These differences were not sufficiently large to cause any embarrassment while traverses were made with the gunter chain and early pattern theodolite, but on the invention (by a New Zealander, Mr. A. Fairburn) of the long steel tape in the early "seventies," and the increased accuracy of later model theodolites, part of the value of the triangulation was impaired. Thus, while the network of permanent marks still controlled the position of boundaries, the field traverses of equal or even greater accuracy than the triangulation sides could no longer be used as definite checks.

First Order Triangulation: Early in this century it was decided to throw over the country a network of large triangles with a high degree of accuracy and from this to recompute the original minor triangulation to conform. In 1904 twelve steel bands were obtained, each with a Board of Trade certificate as to its correct length at a defined temperature and tension. Base lines were selected, and five in the North Island were measured between 1909 and 1914, when the outbreak of the First World War stopped further progress. In 1922 work was resumed, to be again stopped by the depression in 1931. After five years' cessation this work was resumed in 1936, the first order network observations being completed by the end of 1941, when it was necessary to divert the staff engaged thereon to the urgent task of topographical mapping for the Army. One of the three selected base lines in the South Island was measured temporarily to provide a more adequate control for the plotting of the topographical map series in the Southland district.

Field operations of the geodetic triangulation were completed in 1948, when all the necessary longitude fixes were made. The measurement of the base lines in the South Island was completed in the 1947 season.

The observational work has been done to an accuracy well within the limits set by the International Association of Geodesy for work of the highest precision.

Second and Third Order Triangulation: It was originally anticipated that the old minor triangulation could be utilized after readjustment to conform to the new first order, but after attempting to do this it was found that larger corrections than could now be tolerated were being introduced into the old work. In some instances this was undoubtedly due to actual displacement of old stations, but in the majority of cases the fault lay in the old triangulation not being of sufficiently high standard. It was therefore necessary to re-observe the old work, and this has been done in three of the circuits to date.

In this way accurate geographical results over New Zealand will be moulded into one harmonious whole on a co-ordinated system and on a basis which gives the correct relation of one part to another, with no possibility of overlapping where different circuits join.

In most districts, over selected areas, the geodetic survey party has simultaneously broken down the first order triangulation into second order and, where necessary, third order triangulation. Until this latter work has been completely related and adjusted to the main network it cannot be brought into general use for land-survey purposes. At present its use is limited to the control of the topographical map series.

Astronomical Positions: Latitude and azimuth observations have been taken in conjunction with the first order triangulation, about one station in every three being so observed. Longitude observations by wireless telegraphy have been made at stations 100 miles apart, so that in conjunction with latitude and azimuth these stations may be used for Laplace equations to control the entire triangulation.

Precise Levelling: Approximately 540 miles of precise levelling have been carried out for the purpose of correlating the level data of irrigation and drainage and other engineering works. This type of levelling has been carried out in accordance with international standards of accuracy—namely, 0.002 feet or 0.028 inches per mile.

These levels are at mean sea-level datum determined from the tidal records of the principal tidal stations or of tide gauges established specially for that purpose. The traverses are referenced at approximately ten-mile intervals by fundamental bench marks and at approximately one-mile intervals by permanent bench marks.

This work is being further extended to meet the requirements of national drainage, irrigation, hydro-electric, and river-control development, where related and co-ordinated levels in terms of a fixed datum are essential.

STANDARD SURVEYS.—In order to more adequately correlate and redefine old boundary marks for land-title purposes and to provide a permanent standard of reference for future surveys in cities and boroughs where land values are high, and on highways and on main arterial roads where modern road surfaces have eliminated survey marks, a precise survey is carried out, all intersections being referenced with permanent standard marks, normally concrete blocks protected by an iron cover.

These surveys are of two classes—(1) those in the cities and boroughs, being of standard of accuracy of 2 inches to the mile, the cost of which is borne partly by the local authority concerned and partly by the Lands and Survey Department, and (2) those carried out on highways and arterial roads to a lesser standard of accuracy for the purpose of referencing survey marks lost or obliterated by road works and surfaces.

These standard traverses will in the future be correlated with precise levelling traverses, thus providing a standard level datum for engineering works.

AERIAL SURVEY AND TOPOGRAPHICAL MAPPING.—The incidence of war emphasized the need for up-to-date topographical maps of New Zealand. The use of the aerial photograph for the production of topographical maps had at the same time revolutionized the methods of production, requiring the introduction of an entirely new technique.

Up to 1936 several thousand square miles of topographical mapping had been carried out by plane-table methods in scattered localities throughout the country. With the introduction of the aerial photograph for mapping purposes in 1935, a co-ordinated mapping policy was laid down by the Army authorities. A revised map series on a scale of 1 mile to an inch based on an approved map grid was adopted, and an annual output fixed by a co-ordinating committee set up to control the mapping policy of New Zealand.

Two plotting machines were acquired by the Department, and at the outbreak of war in 1939 an area of 1,000 square miles had been mapped on a scale of 1 inch to the mile in the Hawke's Bay district, one map sheet being published in March 1939.

During the war period the Department was made responsible for topographical mapping for military purposes. All the available resources of the Department and the services of a private aerial mapping company were concentrated on the production of maps in this connection.

Owing to post-war activities staff previously employed on topographical mapping was engaged on other survey work mainly connected with land settlement. In 1949 the Department was able to resume its mapping operations in the Rotorua-Tiapo region, and, to date has completed 2,600 square miles of large-scale mapping in this area.

Extensive use is made of the aerial photographs for other than purely mapping purposes. All types of land and engineering development, investigations into geological resources, afforestation, and town and rural planning are now based on data extracted from the aerial photographs. The Department is responsible for the maintenance of a complete library of aerial photographs, which are made available for all national purposes. All orders for photography required by any Department of State are co-ordinated and priorities for such photography fixed by a co-ordinating committee. By such co-ordination it is expected that a basic photographic coverage of the whole country will be completed in the next few years.

Since the war additional plotting equipment for the production of maps from aerial photographs has been acquired, and, as staff is trained and becomes available, mapping operations will be extended to meet all national requirements.

TIDAL SURVEY.—The tidal work carried out by the Department at the commencement of the survey operations in New Zealand consisted of determinations of mean high-water mark (H.W.M.) for the purpose of defining the boundary of land abutting on tidal waters.

Later the adoption of mean sea-level as the datum of reference for the heights shown on the maps of trigonometrical and precise levelling surveys led to a more accurate system of tidal observations being initiated, but it was not until 1909 that a complete tidal survey was inaugurated, at the request of the Admiralty, to include the predictions of the tides and heights of high and low water of the ports of Auckland and Wellington in the Admiralty Tide tables.

The tidal observations are made mainly by self-registering tide-gauges, in which a curve is traced which shows the height of the water at any time above an arbitrary datum. This curve is decomposed, by a process devised by Lord Kelvin, and known as "harmonic analysis," into its harmonic elements. These components are now computed for the ports of Auckland, New Plymouth, Wellington, Lyttelton, Dunedin, Bluff, and Westport, and from them the predicted times and heights of high and low water are obtained by means of the tide predictor at the Nidus Institute, University of Liverpool, and published in advance in the "New Zealand Nautical Almanac." the Admiralty Tide Tables, and several of the maritime publications of foreign nations.

The seven ports for which tide tables are prepared serve as standards of reference on which to base, by means of tidal difference, the times and heights of high and low water of all the other ports in New Zealand.

GEOGRAPHIC BOARD.—The principal functions of the New Zealand Geographic Board, established under the New Zealand Geographic Board Act 1946, are as follows:

- To adopt rules of orthography and nomenclature in respect of place names in New Zealand.
- To examine cases of doubtful spelling of place names, and determine the spelling to be adopted on official maps.
- To investigate and determine the priority of the discovery of any geographic feature.
- To collect original Maori place names for recording on official maps.
- To determine what alien names appearing on official maps should be replaced by British names.
- To investigate and determine any proposed alteration of a place name.

The Board, which replaced the honorary Geographic Board previously in existence, consists of the Surveyor-General, two representatives of the Maori race, a representative of the New Zealand Geographic Society, a representative of the Federated Mountain Clubs of New Zealand, and two other persons.

MISCELLANEOUS.—The Department, in addition to the activities outlined in the preceding paragraphs, carries out many miscellaneous functions, among which are the drawing of maps and diagrams for special publications, the periodic preparation of maps for census and electoral purposes, the copying of maps and plans by photostatic process, the preparation of aerial photograph mosaics and enlargements for departmental purposes, compilation of maps and data for town and regional planning purposes, the control and administration of the subdivision of land in counties required for housing, the preparation of special topographical maps for land settlement, engineering and scientific development, the preparation of maps for air navigation requirements, the production of all maps for the Armed Services, and many other cognate duties requiring the services of the surveyor or the draughtsman.

PUBLICATIONS.—Reports. An annual report of the departmental activities is published as a parliamentary paper, C-1A. At regular intervals a publication called "The Records of the Survey" is issued, the latest volume being numbered five. The publication of professional papers is now discontinued, these being incorporated in the Records.

Maps.—Map sales agencies are maintained at each of the district offices of the Lands and Survey Department. All maps for sale are listed in the "Catalogue of Maps" published by the Department. The catalogue lists maps under the following headings:

1. **GENERAL AND MISCELLANEOUS MAPS.**—*General Maps New Zealand* are small-scale maps of New Zealand and larger scale maps which are not included in the cadastral and topographical section of the catalogue.

Pacific Islands Maps are of islands within the territories of New Zealand, the trust territory of Western Samoa, and Norfolk Island.

Miscellaneous Maps are maps which have been prepared for special purposes, and in general include those of interest to mountaineers and tourists.

2. **CADASTRAL MAPS.**—The following series are published by the Department, these maps showing land title boundaries and land designations:

- a. Survey District Series—1 inch to 1 mile.
 - 2 inches to 1 mile.
- b. County Series—1 inch to 1 mile.
- c. Town Map Series—At various scales from 40 inches to 8 inches to 1 mile.

3. **TOPOGRAPHICAL MAPS.**—The following medium and large scale maps are published:

- a. 1:63,360—1 inch to 1 mile.
- b. 1:25,000.
- c. 1:15,840—4 inches to 1 mile.
- d. 1:10,000 to 1:2,000—Street maps of towns.

The 1:63,360 series now covers approximately half of the country and embraces most of the settled areas. The 1: 25,000 series is as yet restricted to the closely settled areas at the main centres of population. The 1: 15,840 series is confined to certain areas of undeveloped lands which are being developed as farmlands.

4. **MOSAIC MAPS.**—The sheet lines of the mosaic maps conform to the sheet lines of the 1: 25,000 topographic series. The mosaic maps are gridded and show place names and are published at scale 1: 25,000 and at scale 1: 15,840 (4 inches to 1 mile).

5. **AERONAUTICAL CHARTS.**—Aeronautical charts published include—

- a. Aerodrome approach and landing charts.
- b. Plotting charts at scales 1: 1,000,000 and 1: 3,000,000.
- c. Aeronautical charts 1: 500,000.

18 E—VALUATION OF LAND

GENERAL.—The necessity for fixing equitable land values arises in many of the relations of the General Government and local governing authorities with the individual. In particular they are required in connection with the following:

- a. The levying of land tax.
- b. The apportionment of Hospital Boards' and other similar rating levies over contributory local authorities.
- c. The levying of rates by local authorities.
- d. The advancing of money on mortgage by Government Departments and by trustees under the Trustee Act.
- e. The assessing of stamp, death, and gift duties.
- f. The fixing of prices payable by lessees to the Crown for acquiring the freehold of Crown lands.
- g. In assessing the compensation payable where land is taken under the Public Works Act, the Servicemen's Settlement Act, and certain other statutes.
- h. In estimating the prices payable in alienations of Maori lands.

SYSTEM AND PROCEDURE.—Prior to 1896 the valuing of land was not conducted on a uniform basis. Each State Department and local authority employed as valuers such persons whom it thought fit, and estimates of values by different authorities varied considerably. To bring about some order the Government Valuation of Land Act 1896 set up a separate Department of State charged with the duty of assessing the values of real estate for taxation and other purposes of the General Government and for local rating purposes. The present law relating to the valuation of land is contained in the Valuation of Land Act 1925 (which consolidated previous legislation), as amended in 1926, 1927, 1933, 1940, 1945, 1946, 1948, and 1949, and in the Land Valuation Court Act 1948.

The work of the Valuation Department is directed by the Valuer-General, the actual work of valuing being done by District Valuers and assistant valuers. The duty of a valuer is to examine each property and to estimate to the best of his ability (1) the unimproved value of the land contained therein, (2) the value of the buildings (if any) or other improvements (if any) upon such land, and (3) the capital value of the property.

Valuers are enjoined not to strain after high values, nor to accept special prices paid for land in exceptional circumstances, but to determine the value neither above nor below the fair selling value in view of the many and diverse purposes for which the values are used.

Generally, under the New Zealand law the increased value attaching to any piece of land which is due to the successful working of other lands in the district, or to State or local-body expenditure on public works, or to the general prosperity and development of the country, forms portion of the "unimproved value."

"Improvements" on land are defined, with certain provisos, as any work done or materials used on or for the benefit of the land by any owner or occupier resulting in an increase in the value of the land.

The "capital value" is the sum of the "unimproved value" plus the value of "improvements."

Notwithstanding the repeal of the Servicemen's Settlement and Land Sales Act 1943, from 1 November 1950 the revaluations of county lands intended to come into force not later than 31 March 1951 were completed as if that Act had continued in force. Authority for this procedure was conferred by section 38 of the Statutes Amendment Act 1950.

THE VALUATION ROLL.—The Valuation of Land Act directs the preparation of a valuation roll for each district over which a local authority has rating jurisdiction, setting forth in respect of each separate property the following particulars:

- a. The name of the owner of the land, and the nature of his estate or interest therein, together with the name of the beneficial owner in the case of land held in trust;
- b. The name of the occupier within the meaning of the Rating Act;
- c. The situation, description, and area of the land;
- d. The nature and value of the improvements;
- e. The unimproved value of the land;
- f. The capital value of the land;
- g. Such other particulars as are prescribed.

Revision of Rolls.—District valuation rolls are revised by the Valuer-General at such dates as the Governor-General in Council from time to time directs. Previously there were no fixed periods between revisions. Since the necessity for revision depended upon the extent to which values had moved since the previous revision, the periods between revisions varied considerably between old-established and currently-developing districts. The considerable changes in land values over recent years have caused a wider realization of the need for up-to-date valuations, and it has now been provided that all revisions of district valuation rolls made after 31 March 1947 must be again revised within five years unless the Governor-General in Council directs otherwise.

There is provision that in the revaluation of a borough rating on the unimproved value the Governor-General in Council may direct that the revision is to be confined either to the unimproved values only or to the value of improvements only, with consequent adjustments of the capital values.

Alterations During Currency of Rolls.—At any time between the revisions of district rolls the Valuer-General may readjust, correct, or bring up to date the entries therein in consequence of—

- a. Any improvements being added to or removed from the land;
- b. Any change in the ownership or occupancy of the land;
- c. Any amended valuation being made on the requirement of the owner of the land;
- d. Any land being omitted from the roll, or the name of the owner or the description or other particulars of the land being erroneously entered therein;
- e. Any subdivision of the land;
- f. Any lease or any other terminable charge or interest affecting the respective interests of the respective owners.

In new valuations as a consequence of (c) or (e), the aim is to preserve uniformity with the existing roll values of comparable parcels of land.

The Supplementary Roll.—There is, in addition to the district valuation roll for each district, a supplementary roll for that district. The supplementary roll may be used for the same purposes as the district roll except that it may not be used for the assessment of land tax or local rates. Generally, all special valuations of land made during the currency of a district roll for particular purposes—e.g., the granting of loans by Government Departments or trustees on the security of lands, the assessment of stamp, gift, and death duties—are entered on the supplementary roll, but not on the district roll. There is generally a right of objection to such special valuations procedurally similar to the objections discussed under the next heading.

Objections to Valuations.—When a district valuation roll is revised the Valuer-General addresses to each owner, and also to the owner concerned when any particular valuation in that roll is altered, a notice showing the new valuation and naming a date before which all objections (in writing) to the values must be lodged. In the case of a revision of a district roll the Valuer-General, any local authority, or any owner whose name appears on the roll, may object to any valuation thereon. Where a particular property only is revalued, only the owner has a right of objection.

The Valuer-General refers any objections to his District Valuers for reconsideration. He may then decide (1) of his own motion to refer the objection to the Land Valuation Court, (2) to alter the valuation to the extent claimed, (3) to alter the valuation to such extent as is agreed upon with the objector, or (4) to decline to alter the valuation. If his decision is either (2), (3), or (4), he serves notice of it on the objector, and on the owner if other than the objector. Either of these may notify the Valuer-General within fourteen days that he desires the objection to be heard by the Land Valuation Court. If no such notice is received the Valuer-General's decision is deemed to be assented to, and the roll is amended, if necessary, to give effect to his decision.

LAND VALUATION COURT.—The Land Valuation Court Act 1948 established the Land Valuation Court, transferred to that Court the jurisdictions previously exercised by Assessment Courts under the Valuation of Land Amendment Act 1945, and abolished the latter Courts. Under the new legislation the Court consists of three members appointed by the Governor-General in Council, one of whom is the Judge of the Court. In addition to its jurisdiction under the Valuation of Land Act the Court hears claims for compensation under the Public Works Act 1928 and determines values under the Land Settlement Promotion Act 1952.

The Act also established Land Valuation Committees which, in the exercise of their powers and functions, are subject to the general jurisdiction of the Court. A local authority may appoint a person, other than a member or paid officer of a local authority, to be an additional member of the Land Valuation Committee exercising its functions in the district of that local authority. This provision is limited to cases where objections to valuations of property situated in that local authority's district are being heard.

The Valuer-General files with a Registrar of the Land Valuation Court a list of objections, including those which of his own motion he has decided to refer to the Court and those which the objectors desired to be heard by the Court. Copies of the objections are filed with the list. The Registrar refers the objections to the appropriate district Land Valuation Committee for hearing, and the Committee embodies its determination in each case in a formal order which,

after a lapse of fourteen days, is sealed by the Registrar and becomes an order of the Court. Within the period of fourteen days, however, either the Crown representative, or any one affected by the order, may appeal to the Land Valuation Court, or the Court of its own motion may amend the order. Except that the Judge of the Court may on the application of any party to proceedings, or of his own motion, state a case for the opinion of the Court of Appeal on a question of law, the decisions of the Land Valuation Court (either decisions of the Court itself or orders of the Committees sealed by the Registrar) are final.

In the case of an objection to a valuation being allowed, the new valuation dates back to the date at which the valuation objected to would have been effected had no objection been lodged.

If any owner who has objected to a valuation made at a revision of a district roll is not satisfied with the value of the land as fixed by the Land Valuation Court's order, he may, within fourteen days of the sealing of the order, give notice to the Valuer-General that he requires the capital value to be reduced to the value which he (the owner) considers to be the fair selling value as specified in his notice (but not less than the aggregate amount owing on mortgages or other charges on the land), or the land to be acquired on behalf of Her Majesty, or sold, at that value. There is also provision that if the Valuer-General is of the opinion that the value has been fixed by the Court at less than the capital value, he may within fourteen days after the sealing of the Court's order require the owner to consent to what he (the Valuer-General) considers is the fair capital value, and, failing such consent being given within thirty days after notice is delivered, he may, with the approval of the Governor-General in Council, acquire the property at that value on behalf of Her Majesty.

VALUATIONS IN RELATION TO RATING.—The district valuation roll so long as it continues in force is by law the roll from which the valuation roll of every local authority rating on the capital or on the unimproved value is framed.

Owing to the heavy decline in values during the early nineteen-thirties, and the impracticability of a universal revaluation, the provision enabling new valuations to be made was availed of by many owners with the object of reducing their rate payments. In order to maintain rating equity the Valuation of Land Amendment Act 1933 authorized local authorities to levy rates upon a proportionate part (not being under 75 per cent) of values upon the roll. Where an individual owner had obtained a revaluation, the lower of either the new figure or the proportionate part of the previously existing figure was taken. Since 1945 the right of objection to such a new valuation is limited to the claim that uniformity has not been preserved with existing roll values of comparable parcels of land.

The Urban Farm Land Rating Act 1932 (amended in 1933, 1935, and 1944) provides for rating relief for farm lands subject to rates levied by Borough (or City) Councils, Independent Town Boards, and certain Road Boards. The Act provides that these local authorities may assess valuations for rating purposes for such farm lands lower than the values for the same lands appearing on the district valuation rolls. There are rights of objection to such valuations, either to a specially constituted Assessment Court where the valuations are to appear on a farm land roll, or to a Magistrate if special rateable values are being assessed for the ordinary rating roll. The values are generally revised at five-yearly intervals.

A heritage of the days of independent valuations by local authorities is the provision by which they can rate on the annual (rental) values of properties within their areas, these values being assessed by the local authorities' own valuers. The annual value is defined as the rent at which a property would let from year to year reduced by 20 per cent in the case of houses, buildings, and other perishable property, and by 10 per cent in the case of land, but it may not be less than 5 per cent of the value of the fee simple. A new valuation roll in this regard is prepared either annually or triennially.

CAPITAL AND UNIMPROVED VALUES OF LAND.—General valuations of land for the whole of New Zealand were made periodically up to the year 1897-98. Since that year no general valuations for the whole country have been made, but portions are revalued from time to time. As previously mentioned, however, it is now provided that every revision of a district valuation roll made after 31 March 1947 shall be followed by a further revision within five years, unless

such revision is postponed by the Governor-General in Council. The figures in the following table, showing valuations over a number of years, therefore represent general valuations up to 1897 only, while for subsequent years the figures include the latest valuation available of each division.

GROSS CAPITAL AND UNIMPROVED VALUES

As at 31 March	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	As at 31 March	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)
	£	£		£	£
1878	99,566,679	62,573,868	1929	655,906,887	344,757,796
1885	113,270,649		1930	664,571,181	338,887,411
* Provisional.					

As at 31 March	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	As at 31 March	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)
1888	111,137,714		75,497,379	1931	667,911,212
1891	122,225,029		75,832,465	1932	662,829,264
1897	138,591,347		84,401,244	1933	653,707,517
1902	154,816,132		94,847,727	1934	650,362,355
1905	197,684,475		122,937,126	1935	637,604,203
1907	236,644,536		149,682,689	1936	635,801,798
1909	271,516,022		172,759,948	1937	632,229,720
1911	293,117,065		184,062,798	1938	636,362,641
1913	340,559,728		212,963,468	1939	652,898,984
1915	371,076,683		230,705,147	1940	660,524,008
1916	389,164,729		241,322,255	1941	673,118,250
1917	405,466,071		251,087,708	1942	681,921,681
1918	421,383,373		260,921,812	1943	684,180,966
1919	445,533,445		275,988,409	1944	688,794,796
1920	470,093,697		290,880,264	1945	697,365,953
1921	518,584,318		317,631,245	1946	710,425,005
1922	544,503,376		329,474,337	1947	746,412,384
1923	553,403,794		330,790,091	1948	796,037,683
1924	568,500,653		333,669,581	1949	889,268,331
1925	587,349,575		339,310,260	1950	985,879,820
1926	603,250,306		341,047,952	1951	1,112,746,940
1927	618,264,933		341,519,107	1952	1,314,494,995
1928	631,454,676		335,217,075	1953*	1,536,275,000
* Provisional.					

The table shows a continuous decrease in land values from 1929 to 1943. Probably the lowest point in real values was reached about 1934, and the decreases shown after that year merely indicate that the new valuations being made were still at levels lower than the existing pre-depression figures. After 1943 land values were stabilized through the operation of the Servicemen's Settlement and Land Sales Act 1943, and the increases shown to 1950 mainly reflect the writing into new valuations of increases which had occurred prior to 1943.

The lifting of land sales control on urban properties from 23 February 1950 was reflected in the 1951 general revaluations of boroughs and cities. County revaluations did not, however, reflect the transition to a free market basis until the 1952 revaluations, the effect of the higher basis having been postponed twelve months as provided for by section 38 of the Statutes Amendment Act 1950.

The fact that land valuations are not continuously up to date has the effect in the above table of delaying the appearance of other than the steepest movements and of reducing their apparent magnitudes. Consequently, the movements in the table cannot be regarded as indicative of the trends in land values at any given time. Rural land values are generally dependent on the prices received for our exports of primary products, and these prices are also the major influence affecting the country's economy and to some extent price levels generally. If it were not for the irregular periodicity of revisions of valuations, the movements in unimproved values in the preceding table could be expected to follow the trends of export prices shown in Section 36, though with less exaggerated movements and perhaps an upward bias due to improved efficiency in farming methods, growth of population, improved internal transport, and other facilities, etc.

Capital values are influenced not only by the prices of primary products (in so far as they affect the unimproved value included in the capital value and indirectly by their effect on price levels generally), but also by the amount of activity in the building and construction industry.

The values shown in the foregoing table and in that following are the gross values; they include the value not only of rateable properties, but also of churches, schools, unoccupied Crown lands, and other lands exempt from local rating.

GROSS VALUES

As at 31 March	Number	North Island		South Island		New Zealand	
		Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)
		£	£	£	£	£	£
<i>Counties</i>							
1948	129	247,745,879	102,332,521	123,192,813	64,482,772	370,938,692	167,415,293
1949	129	274,237,441	105,579,267	127,359,704	63,773,738	401,597,145	169,352,645
1950	129	303,181,716	109,402,568	138,793,192	66,159,388	441,974,908	175,561,956
1951	129	324,862,948	112,457,552	147,559,201	66,669,052	472,422,149	179,126,584
1952	129	372,863,236	123,257,865	186,332,065	73,875,225	559,195,301	197,133,900
<i>Boroughs</i>							
1948	134	297,233,268	87,793,543	120,586,038	34,644,646	417,819,306	122,438,189
1949	134	346,941,201	99,076,380	132,119,856	36,801,975	479,061,057	135,878,355
1950	134	379,021,605	104,843,295	154,936,331	41,979,086	533,957,936	146,822,381
1951	134	447,995,267	120,478,603	180,826,087	46,962,625	628,821,354	167,441,228
1952	134	526,961,851	138,560,428	209,276,292	54,191,592	736,238,143	192,752,020
<i>Independent Town Districts</i>							
1948	29	5,753,086	1,450,685	1,526,599	313,071	7,279,685	1,763,756
1949	29	7,011,000	1,605,298	1,599,029	215,861	8,610,129	1,921,159
1950	29	7,880,182	1,688,750	2,066,794	392,260	9,946,976	2,081,010
1951	28	9,774,107	2,316,844	2,729,330	275,275	11,503,437	2,592,119
1952	29	17,065,111	3,945,159	1,996,440	306,315	19,061,551	4,251,474
<i>Grand Totals</i>							
1942		460,828,500	179,174,197	221,093,181	97,710,662	681,921,681	276,884,859
1943		463,469,474	179,191,184	220,711,492	97,689,984	684,180,966	276,881,168
1944		466,802,602	179,335,535	221,902,194	97,703,047	688,794,796	277,038,582
1945		473,372,283	179,701,239	223,993,670	97,793,629	697,365,953	277,494,868
1946		483,837,330	181,281,576	226,587,675	97,932,464	710,425,005	279,214,040
1947		513,590,129	186,069,652	232,822,255	98,204,785	746,412,384	284,274,437
1948		530,732,233	192,176,749	245,305,450	99,440,489	796,037,683	291,617,238
1949		628,189,742	206,260,945	261,078,589	100,891,214	889,268,331	307,152,159
1950		690,083,503	215,934,613	295,796,317	108,530,734	985,879,820	324,465,347
1951		782,632,322	235,252,999	330,114,618	113,906,932	1,112,746,940	349,159,931
1952		916,890,198	265,763,452	397,175,662	128,300,342	1,314,494,995	394,136,584

RATEABLE VALUES.—The values quoted earlier in this Section relate to gross values (i.e., the value of all property, whether exempt from local rating or not). The following summary indicates rateable values for counties, boroughs, and independent town districts as at 31 March 1952.

—	North Island		South Island		New Zealand	
	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)
	£	£	£	£	£	£
Counties	1,536,275,000	450,303,000	1,189,454,648	364,380,205	2,725,729,648	814,683,205
Boroughs	1,189,454,648	364,380,205	1,189,454,648	364,380,205	2,378,909,296	728,760,410
Independent Town Districts	1,189,454,648	364,380,205	1,189,454,648	364,380,205	2,378,909,296	728,760,410
Totals	3,915,184,346	1,179,063,410	3,915,184,346	1,179,063,410	7,830,368,692	2,377,443,820

—	North Island		South Island		New Zealand	
	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)	Capital Value (Land and Improvements)	Unimproved Value of Land (Included in Previous Column)
	£	£	£	£	£	£
Counties	335,217,065	115,185,179	172,399,530	70,725,859	507,611,218	185,911,038
Boroughs	476,530,555	125,088,959	187,524,539	49,420,984	664,055,094	174,509,943
Town districts (independent)	15,985,551	3,678,734	1,802,785	280,490	17,788,336	3,959,224
Totals	827,727,794	243,952,872	361,726,854	120,427,333	1,189,454,648	364,380,205

The next table shows the percentage distribution of area and population as at 1 April 1952, and of rateable property values between the different types of local authority districts as at 31 March 1952.

Local Authority District	Area	Population	Rateable Property Values		
			Capital Value	Unimproved Value	
			Value of Improvements	Value of Improvements	
<i>Percentage Distribution</i>					
Counties	99.5	37.1	42.7	51.0	39.0
Boroughs	0.5	61.2	55.8	47.9	59.3
Town districts (independent)	0.0	1.7	1.5	1.1	1.7
Totals	100.0	100.0	100.0	100.0	100.0
* Less than 0.05 per cent.					

It will be observed that there is a closer correlation between the value of improvements and population distribution than in the case of unimproved values and population distribution, with capital values consequently taking up an intermediate position.

Particulars of values for each county, borough, and independent town district in considerable detail are contained in the Local Authorities Handbook, where similar data are also given for dependent town districts and for road districts.

Chapter 19. SECTION 19—PRODUCTION: GENERAL

Table of Contents

ESTIMATES of the value, and of movements in the volume, of physical production have been made in New Zealand for many years, considerably antedating the technique of national income estimates. The latter, of course, take into account the value of the tertiary services of transport, commerce, administration, social services, etc., as well as physical production; the earlier series were concerned only with the last named. The estimates of physical production in this Section are based in the main on the production data which appear in the seven Sections following.

GROSS FARMING INCOME.—Farming occupies such an important position in the economic structure of New Zealand that statistical information relating to farm production is vested with special interest. Statistics of quantitative farm production and prices received by farmers constitute the basic data used in the computation of estimates of aggregate receipts from sales of farm produce. The figures do not purport to show the aggregate net income from farming after all expenses of farm operations have been met. They are intended to afford an indication of the income available to farmers as a whole to meet current expenses of farm operation, living costs, interest payments, and all other costs. The estimates have recently been revised to take into account the real income or loss represented by changes in the numbers of livestock on farms during the various years.

Except in the cases indicated in the next paragraph, no attempt has been made to exclude from the scope of the compilations that portion of marketable farm produce which may be consumed on the farm. Similarly, that portion of farm produce which is sold to other farmers as material for further farm production is in general included. For example, the value of production of grass seeds is included under the heading "Agricultural Produce," although—except for exports—almost the whole of this crop is used for the sowing or renewal of pasture lands. An exception, however, occurs in the case of stud stock sold for breeding purposes, no data being available on which to base an estimate of the aggregate annual value of such sales. With this exception, the totals shown for all farm produce thus represent the total income (including receipts from sales to other farmers), plus certain allowances for farm produce used on the farm. On the other hand, products of kitchen gardens and of other activities more intimately associated with the home than with the farm do not come within the ambit of this inquiry.

Production of green-fodder crops, turnips, and mangolds is not included. The view taken is that production of these crops is a normal and essential part of farm routine to be regarded more in the nature of a farm cost than as production of a saleable commodity. Consequently, the unknown—but, it is believed, very small—proportion sold of the total production of this class of farm produce is omitted from the totals shown. It is arbitrarily assumed that in the case of production of grasses and clovers 20 per cent where cut for hay, and 5 per cent where cut for ensilage, and in the case of grain crops cut for chaff, 25 per cent of the total crop, comes within the scope of this inquiry, the remainder being omitted for reasons similar to those advanced in the case of green fodder, etc.

The division into the three groups—(1) Agricultural, (2) Pastoral, and (3) Dairying, Poultry, and Bees—has been made entirely on the basis of the nature of the produce.

The principal items included in the agricultural group are wheat, oats, and other grain crops, grass seeds, potatoes, onions, tobacco, linen flax, orchard produce, and produce of market gardens, nurseries, hop gardens, etc. The prices at which the various commodities are valued are, in general, the prices received by farmers in the early months of the year, when the crops are harvested.

The estimated cost of sacks, cases, and other containers is excluded, as also are transport charges from farm to market and commission on sales. The fact that the cost of some containers is excluded might be regarded as a departure from the general practice adopted in this computation of omitting to take account of costs incurred on the farm. It should be noted, however, that price quotations for some of the most important classes of agricultural produce—e.g., wheat—are in ordinary commercial practice on a "sacks extra" basis, so that the exclusion of the value of containers in the case of other crops has the merit of consistency.

The principal items included in the pastoral group are livestock and wool production. Slaughtering of livestock has been assessed on the basis of values (alive) at freezing works, deductions being made to cover the cost of transport from farms to works, saleyards, etc., and of commission on sales of livestock. The value of store stock or young lambs sold by one farmer to another is counted only once—that is, when sold for slaughtering as fat stock.

It should be mentioned that the value of all livestock production, including bobby calves, cull cows from dairying herds, and pigs, is included in the pastoral group.

Wool production is valued at the average prices realized at sales or appraisals held during each season, the aggregate arrived at representing the value of wool produced in each season at average sale or appraisal prices ruling during that season. No adjustments are made to cover the unknown increase or decrease in the total ultimate return from the season's production owing to higher or lower prices realized for wool carried over and sold in a subsequent season. Deductions have been made to cover the cost of transport of wool to selling centres, and of woolpacks.

The estimates for the pastoral group have been revised to take into account the value of real income represented by changes in the numbers of livestock held on farms, which in individual years may represent a marked accretion or reduction in terms of real income.

The largest individual item included in the dairying, etc., group is the pay-out to suppliers by butter, cheese, and dried milk, etc., factories during each of the dairy seasons shown. An estimate of the value of human consumption of raw milk (at farm-gate prices) is also included, together with the value of butter produced on farms for home use or for sale. The available data permit of only a rough estimate of the value of poultry products, which, with bee products, are included in this group mainly for purposes of convenience.

The following table shows figures of gross farming income (in millions of £ N.Z.) arrived at for each of the twenty-four production years for which the information is available. It also shows the relative contributions of the three groups in each year, in the form of percentages of the total.

Production Year	Agricultural Produce		Pastoral Produce		Produce of Dairying, Poultry, and Bees		All Farm Produce	
	Value	Per Cent	Value	Per Cent	Value	Per Cent	Value	Per Cent
	£(m.)		£(m.)		£(m.)		£(m.)	
1928-29	7.3	11	35.8	52	25.5	37	68.6	100
1929-30	7.4	12	29.4	48	24.4	40	61.2	100
1930-31	6.7	15	18.9	44	17.9	41	43.5	100
1931-32	6.5	17	14.0	37	17.4	46	37.9	100
1932-33	6.9	18	14.6	38	16.5	44	38.0	100
1933-34	7.0	14	24.8	48	17.8	36	49.6	100
1934-35	6.0	13	22.3	48	18.3	39	46.6	100
1935-36	7.4	13	27.7	47	23.9	40	59.0	100
1936-37	7.2	10	39.5	53	27.9	37	74.6	100
1937-38	7.3	10	34.0	48	29.8	42	71.1	100
1938-39	8.2	12	29.9	43	30.8	45	68.9	100
1939-40	9.4	13	31.2	42	33.8	45	74.4	100
1940-41	9.6	11	39.9	46	36.6	43	86.1	100
1941-42	10.6	13	38.5	46	35.1	41	84.2	100
1942-43	12.0	14	39.0	46	33.9	40	84.9	100
1943-44	13.4	16	38.6	45	33.2	39	85.2	100

Year	Agricultural	Pastoral	Dairying, Poultry, and Bees	Total Farming Groups	Mining	Fisheries	Forestry	Factory	Building and Miscellaneous	Totals (All Groups)
1931-32	8.0	19.2	21.9	49.1	3.4	0.4	1.7	18.6	10.1	83.3
1932-33	8.9	20.3	21.2	50.4	3.4	0.4	1.7	17.7	10.1	83.7
1933-34	8.7	31.7	22.5	62.9	3.5	0.4	2.0	18.6	11.0	98.4
1934-35	7.9	28.0	23.0	58.9	3.8	0.4	2.6	20.7	10.3	96.7
1935-36	9.2	33.8	28.8	71.8	4.0	0.4	3.0	23.2	11.4	113.8
1936-37	8.8	46.3	33.3	88.4	4.0	0.5	3.6	26.7	12.7	135.9
1937-38	8.6	40.1	35.1	83.8	4.2	0.6	4.1	30.0	13.1	135.8
1938-39	9.2	36.7	36.0	81.9	4.4	0.6	4.0	30.5	14.7	136.1
1939-40	10.1	38.0	37.9	86.0	4.9	0.6	4.4	33.5	15.4	144.8
1940-41	10.1	47.8	40.8	98.7	5.1	0.6	4.5	37.1	14.4	160.4
1941-42	11.2	46.5	39.6	97.3	5.4	0.6	4.5	41.2	14.8	163.8
1942-43	12.6	47.8	38.2	98.6	5.3	0.6	5.0	45.2	35.5	170.2
1943-44	14.0	47.2	37.7	98.9	5.7	0.7	5.3	49.4	15.9	175.9
1944-45	15.4	56.1	44.9	116.4	5.8	0.7	5.4	52.0	16.4	196.7
1945-46	15.1	56.4	41.3	112.8	6.0	0.9	6.1	55.6	19.0	200.4
1946-47	15.6	64.9	50.9	131.4	6.4	1.0	6.6	61.7	23.1	230.2
1947-48	15.7	80.4	58.9	155.0	6.3	1.1	8.7	70.8	24.4	266.3
1948-49	18.5	84.0	66.3	168.8	6.9	1.2	10.5	77.0	27.8	292.2
1949-50	18.7	117.4	72.8	208.9	8.2	1.4	10.9	84.5	31.1	345.0
1950-51	19.4	214.3	81.6	315.3	9.4	1.4	12.8	97.4	36.8	473.1
1951-52	18.3	134.3	95.3	247.9	9.4	1.5	16.1	110.0	41.4	426.3

Total production was valued at £426,300,000 in 1951-52, and showed a decrease of £46,800,000, or 10 per cent, as compared with the previous year. Compared with the pre-war year 1938-39, there has been an increase of £290,200,000, or 213 per cent.

The total estimated value of farm production for 1951-52 was £247,900,000, a decrease of £67,400,000, or 21 per cent, on the previous year's figure. In comparison with the year 1938-39 farm production increased in value by £166,000,000, or by 203 per cent. The increase in volume of farm production over this period amounted to 26 per cent, so that the main factor contributing to the increase in value over 1938-39 was higher prices.

The dairying and factory groups with record output showed considerable increases of £13,700,000 and £12,600,000 respectively over the previous year. The pastoral group, due to a big drop in the price of wool and accordingly a drop in the price of livestock, showed a substantial decrease of £80,000,000 on the previous year.

It should be borne in mind that the amount shown as factory production in the value of production statistics does not include the value of production in the industries processing primary products. Production in such cases is credited to the appropriate primary production group (dairying, pastoral, forestry, etc.).

VOLUME OF PRODUCTION.—The method of computation of the volume series is somewhat involved and is based on figures of physical volume of output where available (as for practically all farm, mining, forestry, and fishery production). For factory industries, quantity figures—either of products or of materials used—have been utilized where available, and in the case of other factory industries an estimate of volume of production is assessed by applying to the cost of materials used or products, an index of wholesale prices of the principal materials or products of the particular industry. In the case of some of the industries where the above methods were not applicable a figure closely indicative of volume movements has been arrived at by assessing the number of man-hours worked.

Information as to the number of dwellinghouses erected, classified according to size, is normally available, and from a consideration of this data, value figures for other classes of building activity have been converted into equivalent dwelling or room units. The composite total of actual and equivalent dwelling or room units is a sufficiently reliable indicator of actual volume of building production to permit of its incorporation in an index measuring the year-to-year movement in the volume of total production. Similarly, for those physically productive occupations (representing only a small percentage of aggregate production) not included in any of the groups mentioned above, a reasonably close approximation of movement is afforded by a consideration of the numbers of men engaged, with allowance for changes in working hours and also for the relative productive output of different classes of labour.

The following table gives figures of value, and index numbers of value and volume of production, for the principal headings.

VALUE AND VOLUME OF PRODUCTION

Base of index numbers: 1938-39 (=100)

Year	Farm			Factory*			Total (Including Other)		
	Value		Index Number of Volume	Value		Index Number of Volume	Value		Index Number of Volume
	Total	Index Number		Total	Index Number		Total	Index Number	
1930-31	55.4	68	84	23.3	76	65	97.2	71	78
1931-32	49.1	60	84	18.6	61	56	83.3	61	75
1932-33	50.4	62	96	17.7	58	57	87.7	61	83
1933-34	62.9	77	59	18.6	61	59	98.4	72	87
1934-35	58.9	72	96	20.7	68	69	96.7	71	87
1935-36	71.8	88	101	23.2	76	76	113.8	84	93
1936-37	88.4	108	104	26.7	88	90	135.9	100	99
1937-38	83.8	102	104	30.0	98	95	135.8	100	100
1938-39	81.9	100	100	30.5	100	100	136.1	100	100
1939-40	86.0	105	102	33.5	110	110	144.8	106	105
1940-41	98.7	121	116	37.1	122	114	160.4	118	113
1941-42	97.3	119	111	41.2	135	117	163.8	120	110
1942-43	98.6	120	108	45.2	148	122	170.2	125	109
1943-44	98.9	121	105	49.4	162	129	175.9	129	108
1944-45	116.4	142	113	52.0	170	132	196.7	145	114
1945-46	112.8	138	107	55.6	182	136	200.4	147	112
1946-47	131.4	160	110	61.7	202	146	230.2	169	118
1947-48	155.0	189	113	70.8	232	159	266.3	196	123
1948-49	168.8	206	117	77.0	252	163	292.2	215	129
1949-50	208.9	255	123	84.5	277	174	345.0	253	137
1950-51	315.3	385	126	97.4	319	183	473.1	348	141
1951-52	247.9	301	126	110.0	361	191	426.3	313	143

* Excluding factory industries included in other groups.

A measure of relative productivity is afforded by the next table, which gives figures and index numbers of value and volume of production in total and per head of population.

VALUE AND VOLUME OF PRODUCTION

Year	Mean Population Year Ended 30 June	Value of Production			Volume of Production		
		Total		Per Head	Total		Per Head
		Total	Per Head		Total	Per Head	
1900-01	812,010	33.9	41.7	25	50	"	"
1905-06	929,066	45.8	49.3	34	59	"	"

* Not available.

Year	Mean Population Year Ended 30 June	Value of Production				Volume of Production			
		Total		Per Head	Index Numbers 1938-39 (= 100)		Total		Per Head
		Total	Per Head		Total	Per Head			
1910-11	1,050,014	53.4	50.9	39	61	"	"	"	"
1915-16	1,150,372	72.3	62.8	53	75	"	"	"	"
1920-21	1,258,313	99.5	79.1	73	94	"	"	"	"
1925-26	1,399,583	110.4	78.9	81	94	"	"	"	"
1930-31	1,504,022	97.2	64.6	71	77	77	78	94	86
1935-36	1,568,432	113.8	72.6	84	86	93	93	98	96
1937-38	1,598,570	135.8	85.0	100	101	100	100	101	101
1938-39	1,616,650	136.1	84.2	100	100	100	100	100	100
1939-40	1,636,680	144.8	88.5	106	105	105	105	103	103
1940-41	1,634,238	160.4	98.1	118	117	117	113	111	111
1941-42	1,631,375	163.8	100.4	120	119	119	110	109	109
1942-43	1,639,407	170.2	103.8	125	123	123	109	108	108
1943-44	1,641,433	175.9	107.2	129	127	127	108	106	106
1944-45	1,673,378	196.7	117.5	145	140	140	114	110	110
1945-46	1,729,195	200.4	115.9	147	138	138	112	105	105
1946-47	1,779,129	230.2	129.4	169	153	153	118	107	107
1947-48	1,816,938	266.3	146.6	196	174	174	123	110	110
1948-49	1,853,049	292.2	157.7	215	187	187	129	112	112
1949-50	1,890,752	345.0	182.5	253	217	217	137	117	117
1950-51	1,927,212	473.1	245.5	348	292	292	141	118	118
1951-52	1,970,491	426.3	216.3	313	257	257	143	117	117

* Not available.

MARKETING OF PRIMARY PRODUCE.—Prior to the First World War, internal arrangements for the marketing of primary produce destined for export were the subject of individual negotiation between producers and intermediaries. Government assistance in the marketing of primary products, however, had been given in many ways since organized settlement began, such as by monetary grants, by research and instruction, and by inspection and regulation in the public interest. Organized bulk marketing commenced in 1915 with the establishment of the Imperial Government Supplies Department in Wellington as agent for the New Zealand Government in controlling the export of the various items of primary produce, notably meat, wool, butter, cheese, hides and skins, etc. After the termination of Imperial bulk purchasing by March 1921 producers of meat and dairy produce viewed more favourably participation in some form of organized bulk marketing, though wool producers were much less favourably disposed, owing to the different circumstances pertaining in regard to overseas markets for wool.

In 1922 and 1923, therefore, attempts to gain at least some of the advantages of organization were apparent in the establishment in the former year of the Meat Producers Board under the authority of the Meat Export Control Act, and of the New Zealand Dairy Produce Control Board in 1924 under the Dairy Produce Export Control Act of the later year mentioned. Other such Boards established include the Honey Export Control Board (1924), the Fruit Export Control Board (1924), the Kauri Gum Control Board (1925), the New Zealand Poultry Board (1933), and the Wheat Commission (1936).

The effect of the economic depression of the early "thirties" affected the operations of the Boards so seriously that after an investigation by a Royal Commission, an Executive Commission of Agriculture was created in 1934 by virtue of the Agriculture (Emergency Powers) Act 1934. The Commission was granted very wide powers, including those to take over the functions of various existing Boards, and to make regulations for the improvement of marketing methods in order to improve the prices at which farm produce was being sold.

In respect of the direct control and marketing of primary produce, the Executive Commission of Agriculture was superseded by the Primary Products Marketing Department in 1936, though it continued to function in an advisory and regulatory fashion, being, among other things, responsible for the zoning of dairy factory supplies.

The Meat Producers Board arranged for the grading, handling, and storage of meat for shipment and the regulation of shipping, while no valid contract for shipment by exporters could be made without the approval of the Board. This practice continued until the early stages of the Second World War, when recourse was again made to bulk purchase between governments, the Marketing Department taking over the export of meat.

The Dairy Board in a similar manner became responsible for the control of shipping in respect of dairy produce. As an experiment in 1927 it endeavoured to make use of its London office as the sole agent for the sale of butter and cheese, including the fixation of prices by the London agency in conjunction with distributors. This experiment was abandoned shortly thereafter, but a modified form of marketing organization was adopted in the early depression years by the preparation of a list of licensed wholesalers to whom allocations of dairy produce were made. Further plans for the more complete control of export marketing by the Board were rendered void by the establishment by the Government of the Primary Products Marketing Department (later becoming the Marketing Department) under the Primary Products Marketing Act 1936. The Department was empowered to acquire primary products and market these either in New Zealand or overseas. During the ensuing period up to the outbreak of war the operations of the Department were confined to dairy produce, while throughout this period and subsequently, payments to butterfat producers were based on the guaranteed-price scheme. Concurrently with the control of marketing of dairy produce for export the Department assumed the responsibility of marketing such products within New Zealand.

Legislation in 1937 established the Internal Marketing Division of the Primary Products Marketing Department, and the original Department became the Export Division of the Primary Products Marketing Department. The functions of the Internal Marketing Division were rapidly expanded in various directions, and it took over the processing and marketing of New Zealand standard lemons (1939); guaranteed a minimum price for kauri gum (1937); provided a minimum guarantee for eggs and undertook an advisory service for the trade (1937); and in 1940 became responsible for the administration of regulations setting up egg floors in the four main centres and in Hastings.

In 1942 it became necessary to set up floors in most of the provincial centres and these have continued to operate. The marketing of eggs became the sole responsibility of the National Egg Marketing Committee in 1951, but the committee continued to use the Department as its agent. The Poultry Industry, however, has set up its own marketing organization and took over completely at the end of 1953. In 1938 regulations administered by the Division were introduced regulating the sale and disposal of bobby calves, but in 1953 the New Zealand Dairy Board took over the administration of these regulations. In 1938 also the Minister of Marketing assumed the powers of the Honey Export Control Board. Honey in blended and packed form was distributed both within the country and to overseas markets, in 1953 this becoming the responsibility of the Honey Marketing Authority. Upon the outbreak of war in 1939 and by agreement with the New Zealand Fruitgrowers' Federation, but actually commencing duty in 1940, the staff of the Fruit Export Control Board was taken over, the Board retiring from active participation, but remaining as an advisory committee. The growers were given a fixed return for their fruit, the Government undertaking to sell the whole crop within New Zealand and to bear whatever losses were consequent upon such policy.

The existence of the Marketing Department was thus a factor in achieving a smooth changeover to a system of bulk purchase agreements covering meat, dairy produce, wool, hides, tallow, etc., between the United Kingdom and New Zealand Governments. This procedure was to remain a dominant feature of marketing during the war and immediate post war years. Shipping and storage difficulties associated with wartime conditions also led to the export of meat becoming a function of the Marketing Department.

In the case of wool the Government utilized the services of organizations already in existence for the bulk sale of this product. General administration and the financial aspects were dealt with, however, by the Marketing Department.

The Meat Pool, Meat Industry Stabilization, and Dairy Industry Stabilization Accounts received the benefit of price increases occurring during the war years (the first mentioned, of increases in meat prices up to December 1942; the second, thereafter). The surpluses remaining in the two latter accounts, after payment of subsidies, etc., designed to keep down farm production costs, constituted reserves intended to maintain producer incomes during periods of falling prices and, in the case of the Meat Pool surplus, for the future use of the industry. The Finance Act 1950 amalgamated the Meat Pool and Meat Industry Stabilization Accounts to form the Meat Industry Reserve Account.

The present position may be summarized as set out hereunder. The Primary Products Marketing Act 1953 provides for the establishment of Marketing Authorities for the purpose of regulating the marketing of primary products (exclusive of dairy produce, wheat, potatoes, apples, pears, tobacco, wool, livestock, or meat). Those products excepted are at present the subject of separate Acts.

Marketing Authorities may be established by regulation on the recommendation of the Minister of Agriculture, who is not to recommend the making of such a regulation unless he is satisfied that a majority of the producers of the primary product concerned, are in favour of the establishment of an Authority regulating the marketing of that particular product.

It is provided that in the exercise of its functions, a Marketing Authority is to comply with the general trade policy of the Government and any directions given by the Minister pursuant to the policy of the Government.

In 1947 the Dairy Products Marketing Commission Act was passed, the effect of which was to transfer the marketing of dairy produce from the Marketing Department to the Dairy Products Marketing Commission (which includes Government and producer representation) established by the Act. The Commission was given the task of determining the guaranteed price to be paid out to producers, while the general conditions to be taken into account in its determination were also specified.

The Dairy Products Marketing Commission negotiates with the overseas buyers (e.g., United Kingdom Ministry of Food) in respect of contract prices and quantities of export dairy produce, acquires and provides for the handling of the New Zealand dairy production, determines the guaranteed prices to be paid to local producers for dairy produce, and regulates the marketing of butter and cheese in New Zealand. The amendment Act of 1953 empowered the Commission to acquire shares in overseas marketing companies and to delegate to a committee the control of the marketing of milk powder intended for export. The Commission is authorized to join with the New Zealand Co-operative Dairy Company in setting up the Milk Powder Committee for this purpose.

In respect of meat by arrangement with the Government in early 1948, the Meat Producers Board resumed the regulation of shipping and physical handling of meat and became responsible for the purchase of meat for export and the payment to the freezing companies for such meat. In negotiation of prices, contracts, etc., for the sale of meat and meat products overseas the representatives of the Board acted as advisers in association with the representatives of the New Zealand Government, but for the 1953-54 season's prices the Meat Producers Board was authorized to conduct the price negotiations with the United Kingdom Ministry of Food. The United Kingdom Government agreed to this procedure subject to the New Zealand Government vouching for the accuracy of any cost statistics used by the Board's representatives. Meat destined for local consumption is not dealt with by the Meat Producers Board.

The minimum-price system created by the Joint Organization for the disposal of war surplus stocks of wool was continued by the operations of the Wool Disposal Commission, which was prepared by, at minimum reserve prices, wool from current clips offered at public auction but in respect of which prices failed to exceed the reserve fixed. By the Wool Commission Act 1951 the Wool Disposal Commission was abolished and a Wool Commission authorized, with the principal function of assuring minimum prices for greasy, scoured, and growers' slippe wool in accordance with the table of minimum prices (effective only after agreement with the Minister), for New Zealand

wool sold in New Zealand or the United Kingdom at auction sales approved by the Commission. The Wool Disposal Account was abolished and its moneys, together with those standing to the credit of the Wool Industry Deposit Account, were transferred to the Wool Commission Account which was established by the Act. The marketing of wool is carried out by public auction, though a charge on the proceeds of sales is retained by the Wool Commission sufficient to cover administration costs and the amount of the levy imposed by the Wool Industry Act 1944. The latter amount is expended by the Wool Board for the benefit of the industry as a whole.

The Apple and Pear Marketing Act 1948 set up the New Zealand Apple and Pear Marketing Board, which consists of five persons, two appointed by the Government, two nominated by the industry, and a Chairman appointed by Government after consultation with representatives of the industry. In his case the Board does not itself declare the average price to be paid for apples and pears, its powers being limited in this respect to making recommendations to the Minister of Marketing, who declares the cost of production. The Minister then, after consultation with the Board, declares the average price to be paid for apples and pears, and this price may vary by 6d. more or 6d. less than the cost of production figure. The variation up or down is determined by various tests set out in the Act. The Apple and Pear Board formerly did not employ its own staff, except for secretarial and investigational duties, the physical functions in assembly, distribution, and marketing being carried out by the Marketing Department in the agent of the Board. It has, however, from 1 December 1953 set up a complete organization and has taken over the physical functions of marketing.

The Milk Act 1944, as amended in 1951, set up a Central Milk Council under whose general direction were to be established local milk authorities of various types according to conditions. The Marketing Department, and later the Department of Agriculture, acted as the administrative agent of the Council. It also administered the National Milk Scheme under which local supply associations of farmers contract to supply the requirements in given areas at prices fixed from time to time by agreement between the industry representatives and the Government. The scheme controlled prices and allowances for processing and distribution at all stages from the farm gate to the consumer. The Milk Amendment Act 1953, however, further implemented the Government's policy of divorcing marketing of primary products from direct Government control. It provides for the setting-up of the New Zealand Milk Board to replace the Central Milk Council, with powers considerably greater than those of the Council, and for this reason one extra Government member was appointed to the Board. The Board has its own officers and operates the National Milk Scheme and treatment stations owned by the Crown, and engages in other activities for the purpose of ensuring an adequate supply and efficient distribution of milk.

The Central Milk Council Account is also replaced by the Milk Industry Account. While subsidies are payable from the Consolidated Fund the Board may make a levy on milk for the purpose of providing for its operations if the Minister of Agriculture approves.

The Potato Board, with equal representation of growers and merchants, was established by the Potato Growing Industry Act 1950. Its principal function is to ensure that an adequate supply of main crop potatoes shall be available for consumption. Its powers include the making of contracts between growers and the Board, and the appointment of wholesalers authorized to purchase from growers and to sell potatoes in respect of which contracts have been made with the Board. The Board replaced the Potato Advisory Committee of the Marketing Department from November 1950.

The Egg Marketing Authority Regulations 1953 transferred to the Egg Marketing Authority the power to regulate and control the marketing and distribution of eggs and egg pulp in substantially the same manner and extent as those powers were exercisable by the Minister and the Department of Agriculture under the Egg Marketing Regulations 1951.

The Egg Marketing Authority consists of seven members—four producer members of the New Zealand Poultry Board and three Government representatives.

The principal function of the Authority is to regulate and control the marketing and distribution of eggs and egg pulp in New Zealand and elsewhere in accordance with the regulations, to ensure as far as possible sufficient supplies of eggs and their equitable distribution in the general interests of producers and consumers.

The Honey Marketing Authority Regulations 1953 established the Honey Marketing Authority which undertakes the task of packing and marketing honey within New Zealand and overseas, hitherto carried out by the Marketing Division of the Department of Agriculture under the supervision of the Honey Marketing Committee.

There was previously in existence a Honey Export Control Board, set up in 1924, the powers of which were assumed by the Minister of Marketing in 1938. The same year regulations were made to provide for a levy at the rate of 1d. per pound on honey sold by beekeepers within New Zealand, subject to certain small exceptions. As a later date regulations under the Marketing Act set up the Honey Marketing Committee which at first was advisory in nature, but some years later was given virtually executive powers. The latest regulations, made under the Primary Products Marketing Act 1953, now amalgamate all the foregoing provisions and provide for a Honey Marketing Authority, which is to assume control of honey for export and either directly or through agents operate the blending plant at Auckland. The levy referred to is to be continued at the rate of 1d. per pound and the funds paid into the Honey Industry Account, which will be administered by the Authority for the benefit of the industry in general. The greater part of the funds hitherto obtained from this levy has been applied to subsidizing the return received by those whose honey has been exported through the Honey Marketing Committee.

The Authority comprises four members elected by beekeepers, one appointed by the National Beekeepers' Association (Inc.), and one member appointed by the Government to watch the interests of the consumer.

The Citrus Marketing Authority Regulations 1953 provides for the Citrus Marketing Authority with the principal task of selling fresh lemons, either directly or through agents, throughout New Zealand at prices related to cost of production and to process unmarketable but otherwise sound fruit into by products, such as fruit juice and lemon pect. The Authority will also assume control of the system, formerly operated by the Marketing Department, which is built up on the assembly and packing of fruit at Kerikeri, Auckland, Tauranga, and through an agent at Gisborne. The Authority has a membership of five, four of whom are to be nominees of the New Zealand Citrus Council and represent the producers, and one appointed by the Minister of Agriculture to represent the consumer.

The Citrus, Egg, and Honey Marketing Regulations were validated and confirmed by the Primary Products Marketing Confirmation Act 1953.

The sole authority for the importation of oranges, bananas, pineapples, and lemons, was from 1938 to 1950, the Marketing Department. The sole right to import citrus fruits (in practice except lemons, unless at the request of the Government), bananas, and pineapples, however, passed to a newly formed company, Fruit Distributors, Limited, on 1 January 1951.

With the industry bodies, such as the New Zealand Apple and Pear Marketing Board, Egg and Honey Marketing Authorities, assuming direct control of the marketing of their produce, the remaining functions of the Marketing Department did not justify the retention of a separate Government Department and provision was made in the Marketing Amendment Act 1953 for the abolition of the Marketing Department and the transfer of its remaining functions to the Director-General of Agriculture.

As outlined earlier, the establishment of the Milk Board, and various Marketing Authorities, together with the arrangements made for the processing plants mentioned below, has resulted in these remaining functions being separated from the Department of Agriculture. A small non-profit-earning trading company is to run the three trading, storage, and primary produce processing installations at Auckland, Pukekohe, and Motueka. The company will run the plants under charter for five years, and it is then planned to convert the private into a public company.

BULK PURCHASE OF PRIMARY PRODUCE BY UNITED KINGDOM GOVERNMENT.—The deterioration in the European situation during 1938 and 1939 had led to the formulation of plans in the United Kingdom and New Zealand for the supply of foodstuffs and other produce in the event of war. These plans, which were put into effect shortly after the outbreak of war, envisaged the United Kingdom Government becoming the sole purchaser of imported foodstuffs, and the Marketing Department becoming the authority in New Zealand responsible for the bulk purchase and shipment of the various food and other products.

In general the arrangements for the purchase of produce were to continue for the duration of the war and a subsequent period to be agreed upon, except in the case of wool, where the period was fixed for the duration of the war and one season's clip thereafter. The bulk purchases of wool terminated with the sale of the 1945-46 season's clip, but early in 1944 long-term contracts were entered into in regard to butter, cheese, and meat, the period covered in the original agreement being the four production seasons 1944-45 to 1947-48. At the beginning of the 1946-47 season the period of the contracts was extended to 31 July 1950, with arrangements to confer in 1948 on the desirability of a further extension. As a result of conferences held in 1948 new long-term agreements were entered into covering the period to the end of the production year which terminates in 1955. These agreements are referred to later under their respective headings.

The principal products which came within the bulk-purchase plan which commenced at the outbreak of the Second World War were wool, dairy produce, meat, tallow, and woolly sheep skins. A brief history of the contracts entered into in regard to the three main items—wool, dairy produce, and meat—and of the principal changes that have taken place since the inception of the scheme is given on pages 319-326 of the 1950 issue of the Year-Book. In the following pages only recent years are dealt with in the text together with ten-year summary tables.

WOOL.—In the case of wool the contract commenced with the 1939-40 season's clip and was for the duration of the war and one season's clip thereafter. It was subsequently agreed that the "duration of the war" related to the "global" war, so that, following the cessation of hostilities in August 1945, the sale of the 1945-46 season's clip marked the end of the contract obligation of the United Kingdom Government. All wool not required for manufacture in New Zealand was covered by the terms of the contract.

As a result of the dislocation of normal trading conditions caused by the war huge surplus stocks of wool purchased under contract from Australia, South Africa, and New Zealand had accumulated by the end of the contract period. The total stocks of United-Kingdom-owned wool at 30 June 1945 were estimated at 3,245,000,000 lb., including 540,000,000 lb., (or 17 per cent) in New Zealand. Owing to the increased world consumption of wool, the surplus stocks were disposed of at a much faster rate than was anticipated, being at a rate of approximately 2,000,000 bales each year.

The problem of dealing with and disposing of the accumulated surplus in a manner that would not detrimentally affect future prospects of the trade resulted in the formation of a partnership between the Governments of the United Kingdom, Australia, New Zealand, and South Africa. A Joint Organization was formed and incorporated in England as a private registered company, the capital consisting of eight shares, of which four were held by the nominees of the United Kingdom, two by nominees of the Government of Australia, and one each by nominees of the Governments of New Zealand and South Africa. The company had three subsidiaries acting on its behalf, one in each of the three wool-producing countries. The subsidiary in New Zealand was the New Zealand Wool Disposal Commission established under the Wool Disposal Act 1945. This Act, which came into force on 1 January 1946, approved the agreement entered into between the four Governments and established the necessary machinery for the carrying-out of the functions of the Joint Organization in New Zealand.

The Joint Organization bought, held, and sold wool as agent for the four Governments. The post-war wool clips were not acquired by it by way of bulk contracts—the method adopted by the United Kingdom Government during the war—but these, and existing surplus wool, were auctioned as before the war, subject to a system of minimum or reserve prices, at which the Organization itself would buy if no other buyer bid that price or better. Reserve prices were fixed prior to the opening of each wool season, or at such other times as might be required, not by the Joint Organization, but by representatives of the four Governments. The price-fixing powers of the Joint Organization were limited to the making of "minor" changes in the general price level.

Stocks of wool taken over by the Joint Organization for disposal in 1945 amounted to 10,407,000 bales, the New Zealand share of this wool comprising 1,777,000 bales. By 31 July 1951 all stocks held in New Zealand were liquidated with the exception of 4,494 bales. These were later disposed of at United Kingdom auctions in early 1952.

A total final profit of £19,748,187 was estimated to accrue to New Zealand as its share from the sale of wool under the Joint Organization scheme. Most of this amount has been invested in Government securities, and is to be expended for the purposes set out in the Wool Commission Act 1951.

The operating expenses of the Joint Organization were borne equally by the woolgrowers and the Joint Organization. The share of the woolgrowers was paid from a contributory charge on all sales of current clip wool at auction sales or sales to the Joint Organization at reserve prices. The share of the Joint Organization was met by a deduction from the sales of wool held by it. The rate of the contributory charge in New Zealand was 7½ per cent for 1946-47 season, 5 per cent for 1947-48 and 1948-49, 2½ per cent for 1949-50, and 1½ per cent for the 1950-51 season, this percentage being calculated on the sale value of all wool produced in New Zealand. In the case of scoured wool the rate was charged on the greasy equivalent, and in the case of sheepskins on the value of the wool on the skins.

The Wool Commission set up by the Wool Commission Act 1951, and replacing the Wool Disposal Commission, was given the necessary powers to complete the winding-up of the Joint Organization referred to in the Wool Disposal Commission Act 1945 (now repealed). The objective of the 1951 Act is to ensure that during each wool-selling season the growers sell greasy, scoured, and growers' slippe wool at auction sales will receive for their particular types of wool at least the minimum prices prescribed from time to time in the table of minimum prices prepared by the Commission. This table is not to become effective except by agreement with the Minister of Marketing. The Commission is authorized to approve auction sales in New Zealand or the United Kingdom for the purposes of the Act and, where goods is sold at less than the minimum price set at an approved sale, to supplement the sale price so as to increase it to the minimum price; alternatively, the Commission may buy such wool at a price not greater than the minimum price. Provision is also made in the 1951 Act for a charge on wool sufficient to cover

the costs of administration of the Act and the levy imposed by the Wool Industry Act 1944. As stated above, there was no charge imposed on the sale value of wool for seasons 1951-52 to 1953-54 to cover administration costs, the only amount deducted being the 3s. 6d. (now 4s. 6d.) levy per bale contributed by the Wool Board for its wool promotion purposes. All moneys standing to the credit of the Wool Disposal Account and the Wool Industry Deposit Account were transferred to the Wool Commission Account established by the Act.

Statistics of greasy wool sold at auction in New Zealand (compiled from information supplied by the New Zealand Wool Commission) are given below in two sections. The first table gives a summary of the transactions that took place during the seasons 1947-48 to 1952-53 and for 1953-54. Actual total quantities and values are shown as recorded at sales, no attempt being made to allow for variations in quality or in the relative quantities of the various types of wool sold from season to season. Besides price movements, therefore, the average value per pound of wool sold shown in this table includes variations on account of these additional factors.

WEIGHT, SALE VALUE, AND AVERAGE VALUE PER POUND OF GREASY WOOL SOLD AT AUCTION

Season	Weight of Greasy Wool Sold	Sale Value	Value Per Pound	Season	Weight of Greasy Wool Sold	Sale Value	Value Per Pound
	lb.(000)	£(000)	d.		lb.(000)	£(000)	d.
1947-48	280,729	29,375	25.11	1951-52	314,896	52,734	40.19
1948-49	287,211	30,882	25.81	1952-53	311,902	60,022	46.19
1949-50	297,886	47,138	37.98	1953-54	317,093	66,392	50.25
1950-51	293,737	107,509	87.84				

In the next table details of a wool price index on base 1949-50 (= 1000) are given. This index has been compiled in an attempt to eliminate all but the price factor in movements of average wool values during the seven seasons. A description of the make-up of this index is given in the March 1952 issue of the *Monthly Abstract of Statistics*.

Season	Price Per Pound on Floor, Greasy ¹	Index Numbers ² Base: 1949-50 (= 1000)	Season	Price Per Pound on Floor, Greasy ¹	Index Numbers ² Base: 1949-50 (= 1000)
	d.			d.	
1947-48	25.62	676	1951-52	41.59	1088
1948-49	26.10	686	1952-53	47.07	1219
1949-50	37.98	1000	1953-54	50.83	1310
1950-51	87.47	2299			

* Average of selected types.
¹ Based on price on floor, clean.

The following table shows the total wool production (greasy basis), the movement in the average price per pound of wool (greasy basis), and the estimated total value of wool production for seasons 1938-39 to 1953-54 inclusive. The reserve prices mentioned earlier are also given for the seasons 1946-47 to 1953-54—e.g., an overall average greasy reserve price of 24d. per pound represented a range of prices over the various qualities of fleeces wool from 44½d. for finest wools down to approximately 20d. for coarsest wools. In the first season of operation 1951-52, the Wool Commission bought in 1,600 bales of wool, which were subsequently sold at a profit.

Season Ended 30 June	Total Wool Production (Greasy Basis)	Average Price Per Pound (Greasy Basis)	Reserve Price Per Pound of Greasy Wool	Estimated Value of Total Wool Production
	lb.(million)	d. per lb.	d. per lb.	£m.
1939	327.7	9.17		12.5
1940	310.0	12.85		16.6
1941	331.5	12.87		17.8
1942	345.0	12.88		18.5
1943	340.0	14.58		20.7
1944	330.0	14.60		20.1
1945	372.0	14.61		22.6
1946	365.0	14.51		22.1
1947	367.0	17.83	16.23	27.3
1948	362.0	25.11	16.23	37.9
1949	367.0	25.81	16.98	39.5
1950	390.0	37.98	16.98	61.7
1951	390.0	87.84	19.10	142.7
1952	407.0	40.19	24.00*	68.2
1953	418.0	46.19	24.00*	80.4
1954	424.5 ¹	50.25	26.00*	88.9 ¹

* Minimum floor price.
¹ Estimate.

DAIRY PRODUCE.—In previous issues of the Year-Book there is an account of the earlier bulk purchasing agreements, the following paragraphs relating only to agreements made in 1948 and later years.

Negotiations in June and July 1948 between the United Kingdom Ministry of Food and the delegation representing the Dairy Products Marketing Commission resulted in a new long-term agreement (incorporating the unexpired term of the then current contracts) for the period throughout 1948 and up to 31 July 1955. Agreement was also reached at these discussions in respect of prices for the 1948-49 season, followed by discussions in 1949 at which prices and quantities for the 1949-50 season were agreed upon. The salient features of the 1948 agreement for the ensuing seven-year period were as follows:

- All purchases are to be f.o.b. New Zealand ports and the responsibility for providing shipping for transport to rest with the United Kingdom Government;
- Payment is to be made in sterling in London as to 97½ per cent on shipment and as to the remaining 2½ per cent within sixty days after the date of the last bill of lading. If the lifting of available supplies is unduly delayed, the United Kingdom Government is to make interim payments;
- Prices, terms, and conditions of sale set out in the agreement are to apply throughout the period, unless before 1 May in each year either party requires reconsideration for the ensuing season. Price variations in any one season are to be subject to a maximum of 7½ per cent above or below the previous season's price;
- The United Kingdom Government and the New Zealand Dairy Products Marketing Commission are to consult and agree upon the ratio of butter production to cheese production for the season and the quantities of butter and cheese which will be reserved for sale to other countries during the production season.

The agreement for the season 1947-48 had provided that New Zealand was to be at liberty to reserve for sale at her own discretion from that season's production up to 1,500 tons of butter and 1,000 tons of cheese. From this free allocation the Dairy Products Marketing Commission

could, and did, sell direct, or through exporters acting as its agents, to other countries for the purpose of maintaining connections in those markets where New Zealand has in the past enjoyed an established trade, and of exploring new markets which are considered to hold prospects of permanent trade in the future. These free allocations are in addition to sales to specified colonies permitted by the United Kingdom Ministry of Food agreements with the Governments of the colonies concerned.

For the 1948-49 season sales of butter and cheese to the United Kingdom Government, inclusive of the amounts for the colonies as above, were to be confined to not less than 97 per cent of the exportable surplus of butter and cheese, calculated on a butterfat basis. There were no changes from the above quantities involved in the agreement for the 1949-50 season. For the 1950-51 season the agreement announced in April 1951 provided for a full 7½ per cent increase in price for finest- and first-grade butter and a proportionate increase for finest- and first-grade cheese. There were no increases in the prices paid for second-grade butter or cheese or for whey butter. The quantity to be shipped was not to be less than 90 per cent in butterfat equivalent of exportable surplus with a maximum export of 12,000 tons of cheese to markets outside New Zealand and the programmed colonies, the United Kingdom having the right to reopen the question of quantity during the season. Payment was also to be made in London as to 100 per cent on shipment in lieu of the former 97½ per cent.

Agreement reached for the 1951-52 and 1952-53 seasons provided for a 7½ per cent increase in the price to be paid for New Zealand butter and an appropriate increase in the price for cheese. For 1953-54 the increase was approximately 4 per cent. In respect of quantities, up to 15 per cent of the exportable surplus of butter and cheese could be reserved for sale to other countries in 1951-52; for 1952-53 the corresponding figures were 12½ per cent of butter and 10 per cent of cheese; and for 1953-54, 10 and 7½ per cent respectively.

The question of long-term contracts for the sale and purchase of the exportable surplus of milk powders was also discussed in 1949 and an agreement reached by which the Ministry of Food undertook to purchase specified percentages of the exportable surplus of buttermilk powders and skimmed roller milk powder from participating dairy factories for the six-year period 1 August 1949 to 31 July 1955. For 1952-53 the prices for first-quality products were as follows, second grades being 5s. less: spray skim-milk powder in tins, 9½s. sterling per hundredweight; roller skin in bags, 75s. 6d.; and roller buttermilk in bags, 65s. For 1953-54 the corresponding prices were 84s. 6d., 70s., and 60s., respectively, a decrease of 7½ per cent.

Discussions are to take place in June in London as to whether the United Kingdom - New Zealand bulk purchase dairy contract is to be continued for the 1954-55 season.

The following table shows the contract price in sterling per hundredweight of butter and cheese over the period 1943-44 to 1953-54.

Season	Butter										Cheese			
	Creamery					Whey					Finest and First Grade (91 Points and Over)		Second Grade	
	Finest Grade (93 Points and Over)		First Grade (90-92) Points			Second Grade		First Grade		Second Grade				
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
1943-44	143	15	141	10½	138	1½	"	"	85	6¼	83	6¼		
1944-45	150	6	149	3	145	6	142	6	138	6	89	0	87	0
1945-46	150	6	149	3	145	6	142	6	138	6	89	0	87	0
1946-47	175	0	173	9	170	0	167	0	163	0	102	6	100	6
1947-48	205	0	203	9	200	0	197	0	193	0	118	0	116	0
1948-49	235	0	233	9	230	0	227	0	223	0	133	0	131	0
1949-50	252	6	251	3	247	6	244	6	240	6	141	6	139	6
1950-51	271	6	270	3	247	6	244	6	240	6	151	0	139	6
1951-52	292	0	290	9	282	0	272	0	267	0	161	6	151	6
1952-53	314	0	312	9	304	0	294	0	289	0	176	0	166	0
1953-54	326	0	324	9	316	0	306	0	301	0	182	6	172	6

* Excluded from contract price, as the processing of this butter into dehydrated butterfat in New Zealand for export to the United Kingdom was being considered. First-grade butterfat was purchased at 156s. 9d. sterling per hundredweight. All whey butter was shipped frozen to the United Kingdom, dehydration being discontinued at the request of the Ministry of Food.

Agreement on Guaranteed Price Procedure Between New Zealand Government and New Zealand Dairy Board.—An agreement on future guaranteed price procedure between representatives of the Government and the Dairy Board (after consultation with the Dairy Products Marketing Commission) was approved in June 1952 and published as parliamentary paper H-49, 1952. The principal features of the agreement are described below.

- a. The purpose of the guaranteed price scheme is to stabilize the income of the dairy farmer and to give him some certainty as to probable farm income in any production season.
 - b. Over a long period of years the guaranteed price scheme must be to a large extent self-financing. The existing reserves, wisely used, will help to cushion price falls over a number of years; and in the interests of national economy and for the welfare of the dairy industry, if and when reduction becomes necessary, prices to producers for butter and cheese should be reduced gradually and in harmony with reductions on real income borne by other sections of the community.
 - c. In giving effect to the preceding clause there may be periods when overseas price recessions will lead to deficits in the Dairy Industry Account. The Government has stated categorically that in such circumstances the existing statutory obligations as to the guarantee of prices will be honoured. This is understood as a statement that the existing provisions of the Act will be applied so that the dairy farmer will at least receive a price sufficient to meet costs and to maintain himself and his family in a reasonable state of comfort, and the necessary moneys will be made available by the Government.
 - d. The desirability of discussions annually to consider whether the scheme is working in the interests of the industry and of the country as a whole was affirmed; and in particular to determine whether modification or amendments are desirable in the light of economic circumstances, market conditions, or practical considerations.
- a. Having regard to present economic circumstances and to the balances likely to be accrued in the Dairy Industry Account as at 31 July 1952, unless otherwise agreed by the Dairy Board, it was agreed until the end of the 1954-55 season to use for the benefit of suppliers and for dairy companies the full realizations received for butter and cheese in each season.

In arriving at this conclusion the parties had in mind that trading in overseas markets demands every effort on the part of the dairy farmer and dairy factory to produce and process a product of highest quality. The Dairy Division of the Department of Agriculture and the Dairy Board are at present engaged in a campaign aimed at securing this result, and it is inevitable that additional capital expenditure will be required both on the farm and in the factory, particularly in the initial period.

- b. For these specific purposes it was agreed—
 - i. That a payment under section 22 (2) (6) of the Dairy Products Marketing Commission Act 1947 be made to all dairy companies on the basis of ¾d. per pound for all butterfat received for manufacture into butter and cheese during the dairy companies' 1951-52 financial year, such payment to be in the form of a non-interest-bearing loan for approved capital expenditure. The loan will be cancelled upon production of a certificate, signed by the company's auditor, that the moneys have been expended on such approved capital expenditure;
 - ii. The Dairy Products Marketing Commission recognizes the validity of a claim made by the Dairy Board that farmers will be required to incur additional capital expenditure on the farm for the purposes stated above, and when fixing the guaranteed price for the 1952-53 season the Commission will take appropriate action to meet this requirement;
 - iii. If on calculating the guaranteed price on existing standards and methods for any of the 1952-53, 1953-54, and 1954-55 seasons it appears probable that the realizations from sale of butter and cheese would exceed the guaranteed price so calculated, the Commission before fixing the price will confer with the Dairy Board with a view to determining by agreement how the full estimated realizations for the year shall be used in accordance with clause 2 (a) above;
 - iv. Except as provided for below, should the movement of costs as measured by the Dairy Products Marketing Commission according to the present standards signify a price in excess of realizations, then the Commission shall determine and pay such price.
 - a. In March 1955 (or at any time that it is clear to the Commission and the Board that the total balance in the Dairy Industry Account may fall below £20 million) the parties to this agreement will again meet to review the operation of the scheme, to discuss any desirable amendment to the procedure operating at that date, and to arrange for the ascertainment of new cost standards and the period to which they may be applied.
 - b. After the date of the operation of new standards as determined in accordance with paragraph 3 (a) above, the price fixed by the Dairy Products Marketing Commission shall not in any event be lower than 95 per cent of the price indicated by the new cost standards. If at any time, and not later than 1960, it appears that the total funds in the Dairy Industry Account may fall below £10,000,000, there shall be consultation between the parties with a view to agreement to meet the position in the interests of the industry.
 - c. The Dairy Products Marketing Commission shall consult with the Dairy Board as to the advisability and procedure to be followed in any adjustment to the present standards in the guaranteed price cost structure. Moreover, in any adjustment of the output per labour unit between the present standards and the standards to be adopted after 1955 due regard shall be had to allowing a proper share of the increased efficiency in output per labour unit to the credit of the dairy farmer.
4. The parties to the agreement were convinced of the urgency and importance of the need for increased capital investment in butter and cheese factories during the next few years. Considerable expansion of capital is required for the rebuilding and extension of existing factories, renewal of capital equipment, and modernization of manufacturing equipment.

Some portion of Dairy Industry Account funds could profitably be invested in dairy factories for the processing of by-products, as these will assist toward a diversification of products and an improved economic balance within the industry that will be of advantage in giving flexibility in marketing.

For these purposes it was agreed between the Dairy Products Marketing Commission and the Dairy Board that a Loans Application Committee, domiciled with the Dairy Board, be set up consisting of three representatives each of the Commission and the Dairy Board, the Chairman of such Committee to have a deliberative vote only. The Director of the Dairy Division of the Department of Agriculture is to be co-opted in an advisory capacity. The Loans Application Committee will recommend the approval of loans to the Dairy Products Marketing Commission, and only those loans approved by the Committee may be granted by the Commission. The interest rate on all such loans is 3½ per cent per annum; this rate is to apply until further notice.

Security for such loans is by irrevocable order from the dairy company or companies concerned giving the Dairy Products Marketing Commission authority to deduct the necessary repayment moneys from future purchases by the company. Such authority is to be accompanied by a supply agreement between shareholders and their parent company sufficient to ensure that future butterfat supply is adequate to provide repayment of the loan at an approved annual rate and over an approved period of years. The Committee may, at its discretion, waive the requirement of a supply agreement.

Loans application will only be received in respect of future capital expenditure, and existing loans will not be recommended by the Loans Application Committee for refinancing.

Guaranteed Prices for Butter and Cheese.—The fixed prices in pence per pound of butter and cheese for export payable to dairy factories under the Marketing Act 1936 and, as from the 1946-47 season, under the Dairy Products Marketing Commission Act 1947, are as follows, the figures given including total farm- and factory-costs allowances.

Season	Creamery Butter				Cheese			
	Finest, 94 Points and Over		First 92.92½ Points		Finest, 94 Points and Over		First, 92.92½ Points (Basic Grade)	
	d.	d.	d.	d.	d.	d.	d.	d.
1943-44	16.384	16.259	16.1965	15.509	9.32225	9.321	9.196	8.946
1944-45	18.185	18.060	17.9975	17.310	10.36025	10.329	10.204	9.954
1945-46	19.059	18.934	18.8715	18.184	10.78425	10.753	10.628	10.378
1946-47	21.562	21.437	21.3745	20.687	12.08825	12.057	11.932	11.682
1947-48	23.977	23.852	23.7895	23.102	13.24825	13.187	13.062	12.812
1948-49—								
Aug. 1948-May 1949	24.723	24.598	24.5355	23.848	13.68225	13.651	13.526	13.276
June-July 1949	25.867	25.7437	25.6812	24.9937	14.20485	14.1736	14.0486	13.7986

NOTE.—First grade (90-91½ points) creamery butter is 0.5d. higher than second grade; first grade (91-91½ points) cheese was 0.1875d. higher than second grade up to and including the 1950-51 season and 1.1375d. for the later seasons.

Season	Creamery Butter				Cheese			
	Finest, 94 Points and Over		First 92.92½ Points		Finest, 94 Points and Over		First, 92.92½ Points (Basic Grade)	
	d.	d.	d.	d.	d.	d.	d.	d.
1949-50—								
Aug. 1949-April 1950	25.9944	25.8694	25.8065	25.1194	14.40195	14.3707	14.2457	13.9957
May-July 1950	26.5924	26.4674	26.4045	25.7174	14.68275	14.6515	14.5265	14.2765
1950-51—								
Aug. 1950-14 Feb. 1951	27.2839	27.1589	27.0964	26.4089	15.10845	15.0772	14.9522	14.7022
15 Feb. 1951-July 1951	28.715	28.59	28.5275	27.84	15.81425	15.783	15.658	15.408
1951-52	30.9316	30.8066	30.7441	30.0566	17.3125	17.2190	17.0000	15.8000
1952-53	32.6622	32.5372	32.4747	31.7872	18.4125	18.3150	18.1000	16.9000
1953-54—								
Aug. 1953-14 Sept. 1953	32.6622	32.5372	32.4747	31.7872	18.4872	18.3897	18.1747	16.9747
15 Sept. 1953-July 1954	34.4782	34.3532	34.2907	33.6032	19.4505	19.353	19.138	17.938

NOTE.—First grade (90-91½ points) creamery butter is 0.5d. higher than second grade; first grade (91-91½ points) cheese was 0.1875d. higher than second grade up to and including the 1950-51 season and 1.1375d. for the later seasons.

In addition to the guaranteed price payments, payouts are to be made from realizations of the sale of butter and cheese in the 1951-52 and 1952-53 seasons, in accordance with the agreement by which the full proceeds received from the sale of these commodities up to the end of the 1954-55 season are to be used for the benefit of suppliers and/or dairy companies.

It was decided to make the following distribution surpluses thus accruing from the 1951-52 and 1952-53 seasons:

1. A monthly payment to dairy farmers during the 1952-53 season of ¾d. per pound of butterfat used in the manufacture of butter and cheese. This payment is to assist with capital expenditure on dairy farms and comprises ¾d. per pound from the 1951-52 surplus, and ¼d. per pound from the 1952-53 surplus.
2. A monthly payment to dairy farmers during the 1953-54 season of ¾d. per pound of butterfat used in the manufacture of butter and cheese unless, during the 1952-53 season, there occurs any material alteration in any of the factors on which the estimated net trading surplus for the season was based. This amount of ¾d. is to be made from the 1952-53 surplus:
3. Payments to dairy companies as interest-free loans for approved capital expenditure, such amounts to be cancelled on production of certificates that the moneys have been expended on approved capital works, at the following rates: ¾d. per pound of butterfat received for manufacture into butter and cheese during the 1951-52 and 1952-53 seasons.

The prices quoted in the preceding table enabled efficient dairy' companies to pay to suppliers the following amounts in pence per pound of butterfat for butter or for cheese manufactured over the same period. Also given is the average payout per pound of butterfat supplied for seasons up to 1948-49, the amounts shown including farm-costs and farm-labour allowances, and of average net revenue for later seasons.

Season	Price Per Pound of Butterfat Used for—			
	Butter-making (Basic Price)		Cheese-making (Basic Price)	
	d.	d.	d.	d.
1943-44	17.257	19.257	17.597	19.655
1944-45	19.377	21.377	19.790	22.055
1945-46	20.394	22.394	20.568	22.884
1946-47	23.391	25.391	23.691	25.753
1947-48	25.907	27.907	26.229	27.945
1948-49—				
August 1948 to May 1949	26.751	28.751	27.369	29.190
June 1949 and July 1949	28.146	30.146		
1949-50—				
August 1949 to April 1950	28.244	30.244	28.720	30.785
May 1950 to July 1950	28.972	30.972		
1950-51—				
August 1950 to 14 February 1951	29.678	31.678		
15 February 1951 to July 1951	31.407	33.407	30.568	32.425
1951-52	33.655	36.155	34.106	36.764
1952-53*	35.670	38.670	35.916	38.958
1953-54†				
August 1953 to 14 September 1953	35.834	38.834	†	†
15 September 1953 to July 1954	37.984	40.984		

* Additional amounts at the rate of ¾d. per pound 1952-53 and ¾d. per pound 1953-54 are also payable (see text above).

† Not yet available.

The structure of the basic price per pound of butterfat for butter manufacture over the period is given in the next table.

Season	Working Costs/Capital Charges/Labour Reward			Total Price Per Pound Butterfat
	d.	d.	d.	
	1943-44	6.107	3.240	
1944-45	6.757	3.240	10.920	
1945-46	7.254	3.240	11.440	
1946-47	8.015	3.240	13.676	
1947-48	10.011	3.240	14.196	
1948-49—				
August 1948 to May 1949	10.179	3.240	14.872	
June 1949 and July 1949	10.179	3.240	16.267	
1949-50—				
August 1949 to April 1950	10.199	3.240	16.345	
May 1950 to July 1950	10.199	3.240	17.073	
1950-51—				
August 1950 to 14 February 1951	10.905	3.240	17.073	
15 February 1951 to July 1951	10.905	3.240	18.802	
1951-52	12.342	3.240	19.613	
1952-53	12.451	3.240	21.519	
1953-54—				
August 1953 to 14 September 1953	12.615	3.240	21.519	
15 September 1953 to July 1954	12.615	3.240	23.669	

The total price given in each case is the figure arrived at after adding the three units allowed respectively for farm working and maintenance, capital charges, and labour reward, but after subtracting a return fixed at 1.540¢ per pound of butterfat, this being a standard allowance for pigs. The price for butterfat for cheesemaking was 2d. a pound higher in each year from 1937-38 to 1950-51. For 1951-52 this price was 2½d. higher, and for 1952-53 and

	Subsidy, Grant, etc.	1950-51	1951-52	1952-53
Grants to Rabbit Boards		200,800	342,000	353,000
Cow-testing organizations		25,333	38,333	37,333
Destruction of wild pigs		1,942	1,788	1,946
Destruction of kea		261	216	268
Veterinary Services Council		42,080	39,139	43,596
Maize		1,652*		
Potatoes and onions		42,023		
* Refer text of following paragraph.				

In certain cases there is an agreement between the farmers' organizations and the Government that certain proportions of the subsidy paid can be recovered from the various stabilization or reserve accounts of the farming industry. In the above table the items to which this arrangement applied during the period covered are indicated by asterisks. The total amount recovered in each of the three (July) years was £475,000 in 1950-51, £426,000 in 1951-52, and £426,298 in 1952-53.

Comment on some of the more important items is necessary to explain their origin and significance.

Fertilizer and Lime Subsidies.—The transport of lime has been subsidized for many years to encourage its wider use. The present system was introduced in 1947, the former system of free railage for 100 miles having previously been withdrawn.

The present system, which has been amended slightly several times, is designed to encourage lime use by assisting farmers remote from limeworks. In very broad terms the road transport subsidy is granted at the rate of 4d. per ton-mile for distances of from 4 to 20 miles and after that, 6d. per ton-mile. This applies to deliveries direct from works to farm. For deliveries by road after carriage by rail, the rate is 4d. for 4 to 10 miles, and after that 6d. For deliveries by rail only, the farmer pays the full charge for the first 15 miles and receives a rebate of 75 per cent of the remainder of the rail charge.

These figures reflect several trends, the most important of which is the substantial increase in lime usage, with an increasing proportion in areas remote from works. This has been counteracted to some extent by the opening of new works in localities previously dependent on long rail hauls.

Of the total cost, 85 per cent is borne by the Farm Stabilization Accounts and the balance by the Consolidated Fund. These proportions represent approximately the shares which should be respectively borne by the export and locally consumed portions of farm produce.

The subsidy on the transport of fertilizer has been introduced owing to the inability of the railways—mainly in the Auckland and Taranaki districts—to cope with the seasonal demand for fertilizers. Assistance has been given to the farmer to the extent of the difference between the actual cost by auxiliary transport and what the cost would have been by normal rail delivery. Recent improvements in the rail position make it probable that the subsidy will be discontinued in the near future.

The subsidy on imported phosphatic fertilizer between July 1949 and May 1951 was designed to redress in some measure the wide disparity in the price of these materials and that of locally made superphosphate.

Other Items.—Most of the remaining subsidies represent attempts to deal with specific problems of disease and pest control which are of importance to the whole community but the handling of which would impose a serious burden on individuals or small groups. Under this heading come such items as compensation for diseased stock under the Meat Act and Stock Act, grants and subsidies to Rabbit Boards, and destruction of kea and wild pigs. Subsidies of this nature are mostly charged against the vote of the Department of Agriculture. They are not recoverable except in the case of compensation paid for diseased stock under the Meat Act and Stock Act, where a partial recovery is obtained by the sale of by-products from condemned stock. In the case of the compensation paid for loss of production from cows condemned under an amendment to the Stock Act 1945 from herds supplying town milk, the whole charge is met from vote "Milk Marketing."

The subsidy on potatoes and onions during the period of operation was in respect of supplies grown under Government contract but not actually sold, either through excess supply or difficulties of transport from the South Island.

Chapter 20. SECTION 20—FARM PRODUCTION

Table of Contents

[20 A—GENERAL](#)

[20 B—CROPS](#)

[20 C—LIVESTOCK](#)

20 A—GENERAL

NEW ZEALAND is a pastoral country. Of the 43,000,000 acres occupied by farm holdings of one acre and over situated outside borough boundaries, sown pastures cover 18,000,000 acres and pastures of tussock and other native grasses a further 13,000,000 acres. These grasslands support 5,400,000 cattle (of which 1,900,000 are dairy cows in milk) and 36,200,000 sheep. After allowing for 10,000,000 acres taken up by areas in fern, scrub, and second growth, standing bush, and barren and unproductive land, approximately 2,000,000 acres are left, this comprising areas in field crops, private gardens, market gardens, orchards, plantations of trees, fallow land, areas in flux, etc. Of the field crops, cash crops such as wheat, oats, barley, peas, linseed, and potatoes account for 318,000 acres, and green fodder and root crops for winter and summer supplementary feed for stock, 715,000 acres. In addition, a further 98,000 acres are annually sown under wheat, oats, barley, and maize for the purposes of green fodder, or chaff, hay, and ensilage. From this an indication is obtained of the importance of the grazing animal in the economy of this country.

The natural tussock grassland, which occurs mainly on the hilly and mountainous country to the east of the Main Divide of the South Island, is used for extensive pastoral farming, where the main product is wool and in some instances store sheep, while on the less steep country, particularly in the North Island where there is surface-sown grassland, both store sheep and cattle are additional products. The third type of grassland, that sown after ploughing, is found on the flat and gently undulating country of both Islands and is used mainly for the production of meat and dairy produce. It is in the latter area that considerable progress has been made over the past thirty years. Here farmers have exploited the use of certified strains of grasses and clovers and phosphatic fertilizers and lime. However, the advent of the blower, and, more particularly, the use of aircraft for top-dressing hill pastures, has resulted in considerable areas of surface-sown grassland being top-dressed in the last two years. This treatment of country otherwise inaccessible to normal top-dressing methods is expected to result in considerable improvement to hill pasture, with consequent increase in carrying capacity and production.

With the development of the country's water resources for hydro-electricity most farming districts have been reticulated with electricity, which is being put to a variety of uses on the farm, but by far the most important is that of providing power for milking machinery. For instance, in the dairy districts of the North Island there are approximately 82,000 electric motors, which is 67 per cent of the total number used on farms in New Zealand.

The North Island.—Because of the temperate climate, which makes possible the grazing of stock outside all the year round, many parts of the North Island have proved very suitable for dairying. Nearly 84 per cent of the total dairy cows in the country are grazed on the flat and undulating land of Northland, the Waikato, Bay of Plenty, Taranaki, Manawatu, and Horowhenua districts. Pastures of high feeding value form the basis of the industry. The main winter supplementary feed is hay and silage made from the surplus spring and early summer growth of the pastures. The area saved for this purpose in these dairying districts comprises approximately 71 per cent of the total area saved in New Zealand. In most of the dairying areas fat-lamb raising is associated with dairying, particularly in the Waikato and the Bay of Plenty.

Various forms of sheep farming are carried on throughout the Island, but it is most concentrated on the eastern section from the Wairapa, through Hawke's Bay, to the hill country north of Gisborne. Approximately half of the sheep in the North Island are in this section. Extensive sheep farming is the main feature, the receipts from the sale of store sheep and store cattle contributing a considerable portion of the farm revenue.

Where climatic and soil conditions are favourable, orchard areas, market gardens, and other specialized types of farming are found. The Pukekohe district, 30 miles south of Auckland, provides that city with a considerable portion of its vegetable requirements as well as being the main onion-growing area of the Island. Wellington draws most of its vegetable supplies from the Otaki and Levin districts, while Ohakine, in the centre of the Island, with climate and soils suitable for the production of cabbages and broccoli, supplies both cities with these vegetables. Further large areas are utilized for these purposes in Hawke's Bay, around Hastings, from where also comes the largest contribution of canned or processed vegetables.

In certain particularly warm areas of the Island with suitable soils citrus fruits are grown, the principal areas being Kerikeri, in Northland; Tauranga, in the Bay of Plenty; and Gisborne. The main orchard area is located at Hastings, where there are approximately 3,000 acres of pip and stone fruits.

It is in the North Island that the principal areas of undeveloped land remain, these being situated mainly on the central plateau. The State is active in developing some of this land for farming.

The South Island.—Sheep farming is carried on in practically all parts of the Island. On the tussock grasslands, particularly on the higher parts, extensive sheep farming is practised. Merino and half-bred flocks predominate, with emphasis on the production of fine wool. Because of the comparatively severe climate—hot dry summers and cold winters with occasional heavy snow-storms—there is a considerable risk of heavy sheep losses. On the eastern hill country, in addition to returns from wool, a considerable portion of the revenue comes from the sale of store sheep, which are purchased by the farmers on the plains and undulating country for fattening and for flock-replacement purposes.

On the plains and downlands of Canterbury and in parts of Marlborough, Otago, and Southland, where the climate and soils are suitable, arable mixed farming is a feature. Approximately 91 per cent of New Zealand's wheat acreage, 90 per cent of the area in oats, and 86 per cent of the barley acreage are in these districts. Associated with cereal production is fat-lamb raising, for sheep and lambs are fattened on the majority of these farms. On account of the dry summers and relatively severe winters considerable areas (approximately 73 per cent of the New Zealand acreage) of rape, kale, turnips, and swedes are grown for summer and winter supplementary feed.

Dairying is very localized and is concentrated near the cities to cater for local dairy requirements. Districts where herds are run for dairy-factory supply are the plains areas of Southland, parts of Nelson and Westland, and Banks Peninsula, in Canterbury.

Market gardening is carried on near the cities, and on the rich soils near Christchurch some 2,400 acres are devoted to this purpose; also to the immediate south of Oamaru and on the Taieri Plains just south of Dunedin there are other areas aggregating 1,200 acres. Nelson also produces considerable quantities of fresh and processed vegetables, most of which are marketed in Wellington.

With the warm climate and more frost-free areas, the Nelson and Motueka districts are the most important orchard districts in the country, as well as being the centre of New Zealand's tobacco-growing industry. Around the Alexandra and Roxburgh districts in Central Otago, with its almost continental climate, is situated New Zealand's major stone-fruit-growing areas.

DEPARTMENT OF AGRICULTURE.—The Department of Agriculture has existed as a separate Department since 1893. In 1953 it was, however, formally constituted by virtue of the Department of Agriculture Act 1953. The principal functions of the Department as set out therein are—(a) to promote and encourage the development of all phases of the agricultural, pastoral, and horticultural industries in New Zealand, including the stock, poultry, fruit, vegetable, flax (Phormium tenax), tobacco, hops, and honey production industries, with a view to maintaining and improving the quality of the products derived from those industries and increasing the production of those products; (b) to promote and encourage the marketing and sale of those products.

Under the control of the Minister of Agriculture, the Department of Agriculture provides a service of which the main object is the advancement of the interests of primary production. Under a Director-General of Agriculture there are Directors of Divisions of Animal Industry, Animal Research, Dairy, Extension, Horticulture, and Marketing.

While the service is primarily educative, it also carries out important inspection work. Under the Animal Industry Division all meat killed at meat-export slaughterhouses and abattoirs is inspected by qualified officers, and periodical inspections are carried out at registered slaughterhouses. The registration of town-milk-supply premises is a function of the Division, and the necessary inspection and supervision are carried out by its officers. A comprehensive service, diagnostic and remedial, is provided in regard to the health of all classes of livestock. Cattle are examined for tuberculous and other bovine troubles, and the Department's officers have power to condemn diseased stock. All stock exported and imported is examined by the veterinarians of the Department. Special instruction and advice are given in poultry-keeping, swine husbandry, and wood growing and handling. Among other duties, the Department is concerned with the control of rabbits and noxious-weed destruction.

The Animal Research Division, which was formed in 1939, works in co-operation with the Animal Industry, Dairy, and Extension Divisions, and is also in active collaboration with other institutions engaged in animal research, notably the Department of Scientific and Industrial Research and Massey and Canterbury Agricultural Colleges. The Division has well-equipped laboratories at Wallaceville and at its research station at Ruakura, an important function of the former being the provision of a diagnostic service to the officers of the Animal Industry Division, while the latter is concerned mainly with animal nutrition and breeding.

Instruction in the manufacture of butter, cheese, etc., is given by the Dairy Division. Dairy produce is inspected and graded before shipment, a close supervision being also exercised over the moisture content of butter and cheese, as well as over the weights of such produce; dairy-farm premises are inspected; herd testing is promoted, and a system of semi-official testing of purebred dairy cows is in operation. Milk samples are tested for dairy complaints and farmers. The Division has been also responsible for the administration of market-milk treatment.

The Extension Division is concerned with research and advisory work in soil management, crop and pasture production, and farm management. A field staff of instructors in agriculture acts as a link between the research stations and farmers, and also carries out co-operative field trials and demonstrations on farmers' properties. The Division has special sections devoted to seed certification and agronomy, field experimental work, agronomy, farm management and economics, fertilizers and lime, rural sociology, home economics, farm engineering and machinery, and farm forestry. The Division controls the following stations: Seed-testing Station, Palmerston North; Rukuhia Soil Research Station, Hamilton; Experimental Area, Marton; Phormium plantations, Moutoa; Flock House Farm of Instruction, Bulls; Winchmore Irrigation Station, Ashburton; and Invermay Agricultural Research Station, Taieri.

The Horticulture Division is charged with orchard instructional work, instruction to beekeepers and tobacco-growers, and the inspection of fruit and trees imported and offered for sale. It also inspects orchards and apiaries, inspects fruit for export, and grades export honey. The Te Kauwhata Horticultural Station, in the lower Waikato district, is mainly devoted to vine growing and wine making, and the Levin Station in the Wellington district to research, mainly relating to small-fruit production. There are also several other smaller experimental and demonstration areas.

The instructional work on agriculture covers a comprehensive field, farmers being assisted by visits or by letters of advice. Numbers of farmers also co-operate with the Department in conducting experiments on their farms. The *New Zealand Journal of Agriculture* is published monthly, and bulletins are frequently issued. Any farmer may obtain advice regarding his soil, have seed examined for germination capacity and purity, milk tested for butterfat content or for the presence of disease, plants identified, and diseases of either animals or plants described and remedies suggested, all these services being rendered free of charge. Among other responsibilities of the Department is the registration of livestock breeds, slaughterhouses, dairies, dairy factories, fertilizers, orchards, nurseries, market gardens, apiaries, etc.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.—Under the supervision of the Council for Scientific and Industrial Research the Department devotes a large part of its activities to the promotion of agricultural research. In carrying out its programme the Department initiates and encourages the organization of co-operative research in industry, hence research associations have been formed which are subsidized by the Department and assisted by its staff in order to make the best possible use of the available resources.

The work of the branches of the Department covers nearly every phase of agriculture. The Botany, Crop Research, and Plant Diseases Divisions, together with the Fruit Research Station, all assist farmers, fruitgrowers, nurserymen, and gardeners in their specialized spheres to eliminate (or to reduce the destructive effect of) all types of plant diseases and insects, to increase yields, and to improve the strains of various plants. The Animal Ecology Section conducts research on rabbits and other pests, and suggests control measures. Regional survey work is carried out to obtain information on native and introduced mammals and birds.

The improvement of New Zealand pastures, through studies of plant breeding, pasture ecology, plant chemistry, etc., is the aim of the Grasslands Division. Overseas species are plot-tested, and studies are made with a view to increasing yields of clover seed, etc. The Entomological Research Station has made a major contribution to pastoral farming in devising a method of controlling grass grub; in addition, it handles a wide range of insect problems in agricultural crops. The Soil Bureau is responsible for a soil survey of New Zealand and carries out research on the relationship of the soil to problems of agriculture, forestry, and engineering; problems of phosphate fixation and the uptake of phosphate by plants are also being investigated.

Among the incorporated research associations is the Dairy Research Institute (N.Z.) (Inc.), concerned with nearly every aspect of dairy production—utilization of products, farm efficiency, diseases, and hygiene. Much experimental work in this direction is carried out at Massey Agricultural College. Another association is the New Zealand Fertilizer Manufacturers' Research Association (Inc.), which tests experimental fertilizers and studies the production, distribution, and effect of fertilizers.

The Wheat Research Institute, the Tobacco Research Station, and the Hop Research Station are subsidized by industry and controlled by the Department. The Wheat Research Institute seeks improvement in the quality of bread by flour and wheat tests. A moisture-testing service aids farmers to determine when crops are ready for harvesting. The Tobacco and Hop Research Stations investigate the use of fertilizers, control of diseases, and general management, and test new varieties in their respective fields.

The Value of Agricultural Research.—The Dairy Research Institute has achieved such results as great improvements in cheese strains, the manufacture of dried butterfat, and the discovery and control of bacteriophage; while the Wheat Research Institute has been responsible for improvement in wheat, flour, and bread quality by the breeding of Cross 7, Yielder, Hilgendorf, and other wheats, and by devising methods of utilizing sprouted wheat and controlling the vitamin B content of flour.

Corky pit of apples and other deficiency diseases of fruit have been overcome, and investigations in transport have vastly improved the quality of fruit arriving in the United Kingdom. Transport investigations in meat resulted in consignments of chilled beef sent from New Zealand to the United Kingdom arriving in excellent condition.

A soil survey of the whole of New Zealand has been completed, and the problems of mineral deficiency diseases such as bush sickness and dopyness have been solved. Tobacco research has resulted in the area devoted to this crop being doubled, simultaneously with the doubling of the yield per acre, and the industry has become one of the most prosperous of the rural industries. Effective control has been secured over a wide range of plant diseases. Ball smut and loose smut of cereals have almost disappeared, and dry rot of brassicas has materially lessened. A system of certifying spray materials effective against a wide range of diseases of horticultural and garden crops has been devised. A most effective culture to promote lucerne growth has been found and maintained. Numerous serious insect pests have been brought under control, and the diamond-back moth, white butterfly, and codling-moth are not the menace they formerly were; subterranean caterpillar also has been checked and, more recently, grass-grub, the most costly insect of all, has capitulated to the newer chemical insecticides.

The work of the Crop Research and Grasslands Divisions has resulted in the development and expansion of a profitable farm-seeds industry. Cheviots fescue seed, which lost its germination during sea transport, can now be shipped overseas with confidence, following the development of a seed-drier and airtight packaging by the Dominion Laboratory. Rape and turnip seed, hitherto imported from overseas, is now produced locally and exported, as the result of breeding and selection work done by the Crop Research Division, which, in addition, has improved the quality of oats, barley, lupins, carrots, and lucerne seeds. Research into the breeding of new strains of pasture plants, and into the utilization and management of pastures, has done much to enable New Zealand farming to lead the world in grassland and bring its per-acre yield of meat and dairy produce to levels not attained elsewhere. Improved methods of pasture establishment, together with the use of chemical sprays, have done much to control the noxious weeds that seriously reduced farm production in 1926 and the years that followed.

CLASSIFICATION OF HOLDINGS BY FARM TYPES.—The annual collection of agricultural and pastoral statistics in 1950 was conducted as part of the World Census of Agriculture. Detailed regional information, in conformity with the usual practice, was published in the Statistical Report on the Agricultural and Pastoral Production of New Zealand for the season 1949-50, but additional tables will be published as records are received from the special punch-card machine tabulations. A detailed type classification for farm holdings was evolved for use in 1949-50, and provisional figures as to the number of holdings of the various types in the several land districts (each Island separately) are presented in the following tables.

Type Group	North Island Land Districts						
	North Auckland	South Auckland	Gisborne	Hawke's Bay	Taranaki	Wellington	Total, North Island
Idle and unused	712	329	53	52	30	171	1,347
Grazing areas	871	546	106	225	150	342	2,240
Residential	1,173	437	354	503	205	772	3,444
Plantations	29	53	1	6	6	17	112
Phormium (N.Z. flax)	2						2
Dairying	10,130	11,314	1,108	1,365	4,368	4,979	33,264
Sheep farming	1,129	2,410	945	2,504	783	4,386	12,157
Arable cropping	9	13	93	97			81
Beet cattle	387	228	25	46	34	82	203
Poultry	346	72	81	75	39	148	761
Horse raising	50	44	7	19	12	38	170
Pig raising	37	41	7	10	11	28	134
Horticultural	973	324	128	659	36	302	2,422
Mixed farming	68	75	107	62	30	85	427
Timber cutting	14	20	3	1	13	7	58
Other holdings	377	150	38	28	51	98	742
Totals, all holdings	16,307	16,056	3,056	5,652	5,768	11,539	58,378

Type Group	South Island Land Districts						New Zealand Totals
	Marlborough	Nelson	Westland	Canterbury	Otago	Southland	
Idle and unused	52	216	149	162	213	201	993
Grazing areas	58	192	50	645	465	344	1,754
Residential	143	368	112	1,524	696	423	3,266
Plantations	3	82	3	48	18	8	162
Phormium (N.Z. flax)	1	2	2	1	1	1	10
Dairying	393	1,014	408	1,985	1,163	1,540	6,503
Sheep farming	740	529	137	3,598	3,146	2,957	11,107
Arable cropping	176	51		1,940	210	118	2,495
Beef cattle	9	75	159	65	69	62	439
Poultry	31	36	7	331	256	30	691
Horse raising	2	7	1	223	41	33	307
Pig raising	7	11	7	38	17	13	93
Horticultural	96	806	13	833	422	23	2,193
Mixed farming	73	77	7	739	246	165	1,307
Timber cutting				5	4	3	17
Other holdings	43	104	55	154	119	93	568
Totals, all holdings	1,827	3,575	1,114	12,286	7,087	6,023	31,912

In certain tables given in Sections 20B and 20C of this volume, reference is made to regional areas, and it is appropriate that at this point some description should be given of this new designation.

For purposes of analysis of the New Zealand part of the 1950 World Census of Agriculture, counties with some affinity as to farming types, etc., have been grouped to form what have been designated "Regional Areas." The following sets out in detail the content of these.

Regional Area	Counties Included
Northland	Mangonui, Whangaroa, Hokianga, Bay of Islands, Whangarei, Hobson, Otamatea, Rodney, Waitemata, Eden
South Auckland	Manukau, Franklin, Raglan
Waikato and Hauraki Lowlands	Waikato, Waipa, Otorohanga, Hauraki Plains, Piako, Matamata
Cape Colville	Great Barrier, Coromandel, Thames, Ohinemuri
Central Plateau	Tauranga, Rotorua, Taupo, Whakatane
Western Uplands	Kawhia, Waitomo, Taumarunui, Ohara, Whangamomona, Clifton, Kaitike, Waimarino
Taranaki	Taranaki, Inglewood, Egmont, Stratford, Eltham, Waikato West, Hawera
East Cape	Opoitiki, Matakaoa, Waipua, Uawa, Waikoua, Cook
Hawke's Bay	Waioa, Hawke's Bay, Waipawa, Waipukurau, Patangata
Rangitikei	Patea, Waitotara, Wangamui, Rangitikei, Kiwitea, Pahangina
Manawatu	Dunnevirke, Oroua, Manawatu, Kairanga, Horowhenua, Pahiata
Castlepoint	Weber, Akitio, Castlepoint
Wairarapa	Eketahuna, Mauriceville, Masterton, Wairarapa South
Featherston	Hutt, Makara, Featherston
Nelson	Waimea, Takaka, Collingwood, Buller, Murchison, Inangahua
Marlborough	Sounds, Marlborough, Awatere, Kaikoura
Westland	Grey, Westland
North Canterbury	Ammi, Cheviot, Waipara
Foothills	Ashley, Oxford, Tawera, Selwyn
Canterbury Plains	Kowai, Rangiora, Eyre, Malvern, Paparua, Springs, Ellesmere
Christchurch	Waimairi, Heathcote, Halswell
Banks Peninsula	Mount Herbert, Akaroa, Wairewa
Mackenzie	Mackenzie
South Canterbury	Ashburton, Geraldine, Levels, Waimeate, Waitaki
Otago	Waikato, Waikouaiti, Peninsula, Taieri, Tuapeka
Central Otago	Maniototo, Vincent, Lake
Southern	Bruce, Clutha, Southland, Wallace
Remainder	Chatham Islands, Stewart Island

FARM MACHINERY ON OCCUPIED HOLDINGS.—Advantage was taken of the organization provided for the 1950 Census of Agriculture to obtain details of farm machinery on a much wider scale than ever before attempted in this country. In the following table, which gives detailed results of the collection, figures are quoted for farm machinery on occupied holdings of 1 acre and over situated outside borough boundaries as at 31 January 1950. This table does not include those items which are regularly collected. Later figures for these are shown under subsequent headings.

—	Number
Threshing mills	347
Timmills	279
Header harvesters	3,121
Chaffcutters	1,352
Reapers and binders	8,509
Hay sweeps	24,244
Hayrakes (including side delivery and dump rakes)	26,439
Hay stackers	11,701
Hay balers and presses	4,263
Mowers	39,666
Drills—	
Combine	14,243
Ridger	6,008
Ploughs—	
Mouldboard	53,596
Disc	8,695
Mole drain	2,322
Harrows—	
Tine (number of sets)	46,296
Disc (number of sets)	29,336
Chain (number of sets)	30,726
Cultivators—	
Inter-row	10,338
Field	12,053

—	Number
Manure sowers and spreaders	31,534
Rollers	16,744
Potato planters	828
Potato harvesters	1,067
Spraying machines (power-driven)	1,692
Motor lorries and trucks	25,419
Motor cars	48,285
Farm carts and drays	41,646
Agricultural tractors—	
Diesel oil—	
Crawler type—	
Number	1,307
Horsepower	42,606
Wheel type—	
Number	1,217
Horsepower	39,530
Petrol driven—	
Crawler type—	
Number	1,794
Horsepower	41,056
Wheel type—	
Number	24,524
Horsepower	544,016
Kerosene (paraffin) driven—	
Crawler type—	
Number	653
Horsepower	16,449
Wheel type—	
Number	5,423
Horsepower	130,852
Number of shearing sheds	21,551
Night pen capacity of sheds	4,030,650
Number of flocks machine-shorn	31,136
Number of flocks blade-shorn	7,490
Number of wool presses	18,846
Number of sheep clips—	
Bath dips	13,250
Spray dips	254
Number of herds machine-milked	35,084
Number of herds hand-milked	35,782
Power used in driving milking machines—	
Electric motors	31,269
Internal-combustion engines	4,409
Other power	88
Number of cream separators	54,421

The following table gives details of farm machinery for those items where a comparison is available for the years 1947 to 1952.

—	1947	1948	1949	1950	1951	1952
Milking machines	32,596	33,461	34,114	36,368	37,204	37,563
Cream separators	48,194	48,457	48,451	54,421	"	"
Shearing machines—						
Plants	14,564	15,468	16,392	18,791	19,473	20,810
Stands	33,907	35,448	36,952	40,536	42,298	44,472
Agricultural tractors	21,156	23,423	27,447	34,918	40,310	45,734 [†]
Rotary hoes and garden tractors	1,646	2,253	2,660	3,093	3,812	4,380
Electric motors	82,721	88,282	94,047	110,683	116,549	123,439
Internal-combustion engines	23,109	24,922	26,199	29,926	29,046	29,052
Threshing machines [‡]	1,641	1,708	2,024	1,900	2,218	1,965
* Not available.						
† This item covers only those machines actually used for threshing wheat or oats during the year specified.						
‡ 1953 (estimated) 52,495.						

The figures for 1952 show a continuation of the trend towards more intensive mechanization of farm work that has been in evidence over a considerable period. During the war and early post-war years this movement was retarded through inability to procure the necessary equipment, but there has been a considerable speeding up in the last six years. Particularly noticeable are the increases in agricultural tractors and electric motors. The movement in the number of threshing machines for threshing wheat and oats is accounted for by considerable variation in the areas planted in these crops.

Milking Machines.—Information concerning milking machines on farms was first collected in 1919, in which year there were 7,577 plants recorded. Since that year the use of milking machines has expanded rapidly, although, as might be expected, the rate of increase slowed down somewhat during the war period. During the six years from 1933 to 1939 milking machines increased at an average rate of 770 per year, while during the six-year period 1940–46, the average increase was 430 per year. The subsequent six years showed increases of 791, 865, 653, 2,254, 836, and 359 respectively. Of the 1,905,534 cows in milk on 31 January 1952, 1,799,375, or 94 per cent, were on holdings employing milking machines. In 1951 the corresponding percentage was 94 and in 1942, 87.

The following table shows for the years 1940, 1951, and 1952 the number of farms with milking machines, and the aggregate cow capacity thereof, classified according to size of plant—i.e., cow capacity. It is known that cows in milk were recorded on 70,873 of the 90,290 holdings covered by the 1950 collection. Machine milking was carried out on 35,154 farms and hand milking on 35,719.

Number of Machines	Individual Cow Capacity	Number of Farms			Aggregate Cow Capacity			
		1940	1951	1952	1940	1951	1952	
One		1	288	1,575	1,734	288	1,575	1,734
		2	6,320	7,443	6,976	12,640	14,886	13,952
		3	9,040	8,312	7,573	27,120	24,936	22,719
		4	8,684	9,660	9,565	34,736	38,640	38,260
		5	1,584	1,979	2,005	7,920	9,895	10,025
		6	1,508	4,077	4,872	9,048	24,462	29,232

Number of Machines	Individual Cow Capacity	Number of Farms			Aggregate Cow Capacity			
		1940	1951	1952	1940	1951	1952	
		7	36	271	274	252	1,897	1,918
		8	139	1,963	2,519	1,112	15,704	20,152
	9 and over		45	652	824	482	7,142	8,895
Totals, one machine		27,644	85,932	36,342	93,598	139,137	146,887	
Two			739	522	506	5,552	4,658	4,848
Three			83	44	34	957	457	422
Four			22	6	11	358	84	142
Five and over			13	10	8	352	238	256
Grand totals			28,501	86,514	36,901	100,817	144,574	152,555

A point of interest in the table is that while the total number of farms in 1952 with milking machines rose by 8,400 compared with 1940, the number of farms with multiple plants dropped from 857 to 559. On the other hand, single-unit plants of 6-cow capacity and upwards showed a greater relative increase than those below that number.

The following table shows, by size of herd in milk, both the number of farms equipped with milking machines and farms with dairy cows in milk but no milking plant. It will be noted that the only decreases in farms with milking machines are confined to the larger herds, which would appear to be associated with the fall in multiple plants referred to earlier.

Size of Herd (Cows in Milk)	Farms With Milking Machines			Farms Without Milking Machines			
	1940	1951	1952	1940	1951	1952	
Under 5		715	1,217*	1,569*	22,755	25,959	26,001
5 and under 10		1,222	1,430	8,790	4,073	3,578	
10 and under 20		1,648	3,033	3,037	5,784	1,525	1,331
20 and under 30		4,462	4,465	4,213	2,032	371	323
30 and under 40		5,345	5,675	5,452	562	70	75
40 and under 50		4,497	5,368	5,227	174	13	18
50 and under 60		3,330	4,417	4,433	74	5	5
60 and under 70		2,707	3,540	3,665	30		
70 and under 80		1,803	2,373	2,512			
80 and under 90		1,176	1,677	1,726			
90 and under 100		842	1,085	1,105			
100 and under 125		1,101	1,549	1,551	37	8	
125 and under 150		416	512	566			
150 and under 200		289	278	315			
200 and over		170	103	100			
Totals		28,501	86,514	36,901	40,238	32,024	31,331

* These totals for 1951 and 1952 include 273 and 357 cases respectively of farms with milking machines but no cows in milk. Comparable figures are not available for 1940.

Agricultural Tractors.—During the ten years from 1942 to 1952 the number of agricultural tractors employed on holdings of 1 acre and over outside borough boundaries rose from 13,967 to 45,734, an increase of 227 per cent. These figures do not include rotary hoes or garden tractors, which likewise showed an increase from 813 in 1942 to 4,380 in 1952, an increase of 439 per cent.

The increase in tractors has been accompanied by a decrease in the number of horses employed on farms, particularly those described as "draught and three-quarter draught." The total number of horses in 1952 was 173,922, of which 57,434 were classed as draught or three-quarter draught, 20,300 as spring-cart or light artillery (including half-draught), 74,530 as hacks or light working horses, and 21,658 as thoroughbred or other. Comparable figures for 1942 were 248,597, 118,054, 44,586, 71,509, and 14,448 respectively. The number of agricultural tractors increased from 45,734 in 1952 to an estimated total of 52,495 in 1953, whereas the total number of horses fell from 173,922 to an estimated 158,065.

In the following table, which gives particulars of tractors and horses as at 31 January of the years shown, horses described as "thoroughbred or other" have been excluded. The number of holdings on which tractors were located in 1952 was 38,434 out of a total of 90,288, whereas horses were present on 50,629 holdings. In 13,162 cases there were tractors but no horses, 25,357 cases in which there were horses but no tractors, while both tractors and horses were present in 25,272 instances.

—	Tractors, but No Horses		Tractors and Horses		Horses, but No Tractors
	One Tractor	More Than One Tractor	One Tractor	More Than One Tractor	
1948	4,823	457	14,169	1,590	39,812
1949	5,887	623	15,893	2,013	37,057
1950	7,784	874	19,300	2,708	33,511
1951	9,448	1,255	20,330	3,556	30,316
1952	11,447	1,715	20,941	4,331	25,357

The 6,046 cases in 1952 in which there were more than one tractor were made up as follows: Two tractors, 5,110; three, 720; four, 157; five or more, 59.

Threshing Machines.—Information collected in conjunction with the monthly threshing returns shows that a total of 1,965 machines (1,852 header harvesters, 62 threshing mills, and 51 tinmills) were engaged in threshing either wheat or oats in 1952, as compared with a total of 1,129 machines in 1942. The increase in the total number of machines so used during the ten-year period is accounted for by the change in harvesting methods that has taken place, the mobile header harvester, which was first employed in New Zealand in the autumn of 1930, having largely supplanted the stationary threshing mills.

The header harvester is used more extensively in connection with the wheat crop, many varieties of which are very well suited to heading, than in oats threshing, where the threshing mill still plays a part of major importance. In 1952 header harvesters threshed 94.4 per cent of the wheat yield from 95.2 per cent of the grain area. Threshing mills and tinmills accounted for 3.6 per cent and 2.0 per cent of the yield and 3.0 per cent and 1.8 per cent of the area respectively. Figures on a similar basis for oats are: header harvesters, 79.5 per cent of yield and 81.8 per cent of area; threshing mills, 12.5 per cent of yield and 10.7 per cent of area; and tinmills, 8.0 per cent of yield and 7.5 per cent of area.

Of the 1,965 machines engaged in threshing wheat or oats in 1952, 1,312 (1,264 header harvesters, 26 threshing mills, and 22 tinmills) were located in the Canterbury Land District, which produced 63 per cent of the total wheat yield and 47 per cent of the oats yield. In Otago there were 235 machines, made up of 212 headers, 9 threshing mills, and 14 tinmills, while Southland recorded 209 machines (179 headers, 18 threshing mills, and 12 tinmills).

The following table shows the average yield per acre of wheat according to the type of threshing machine used for the last five seasons. The percentages of threshing by each type of machine are also shown.

Wheat	Header Harvesters		Threshing Mills		Tinmills		Totals	
	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre
		Bushels		Bushels		Bushels		Bushels
1947-48	84.27	35.43	11.26	42.79	4.47	39.75	100.00	36.31
1948-49	87.95	39.95	7.27	45.17	4.78	43.42	100.00	40.44
1949-50	90.82	38.82	6.42	46.35	2.76	39.85	100.00	39.26
1950-51	92.58	42.85	4.57	52.32	2.85	45.80	100.00	43.29
1951-52	94.41	42.69	3.60	50.74	1.99	47.84	100.00	43.03

The foregoing analysis for 1951-52 is based on a total of 3,816 crops, covering approximately 77 per cent of the total wheat area.

There would appear to be a tendency for header yields to be lower than the yields of crops threshed with threshing mills and tinmills, but in the absence of such related matters as soil types, etc., no definite conclusions can be drawn. It is mainly on the heavier soil types that threshing mills and tinmills have been retained. This is particularly so in the case of the soft-chaffed wheats, Drendought and Hunters, which, on the whole, are direct headed only on lighter land.

A similar analysis to that given for wheat is now shown for oats. The number of crops covered in 1951-52 was 2,498, which represented approximately 73 per cent of the oats area threshed.

Oats	Header Harvesters		Threshing Mills		Tin mills		Totals	
	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre
		Bushels		Bushels		Bushels		Bushels

Oats	Header Harvesters		Threshing Mills		Tin mills		Totals	
	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre	Percentage of Total Yield	Average Yield Per Acre
		Bushels		Bushels		Bushels		Bushels
1947-48	40.98	36.60	42.41	53.18	16.61	47.84	100.00	44.16
1948-49	56.82	43.12	24.41	55.75	18.77	53.52	100.00	47.48
1949-50	63.34	46.56	23.62	56.74	13.04	52.25	100.00	49.35
1950-51	66.87	46.78	20.83	62.73	12.30	57.51	100.00	50.62
1951-52	79.48	52.26	12.55	63.41	7.97	57.00	100.00	53.81

20 B—CROPS

As indicated in the general remarks included in the introductory portion of the preceding subsection, grassland products account for a very high proportion of the farm output of New Zealand. It must not be assumed, however, on this account that cropping is of minor importance in the economy of New Zealand. Practically the whole of the internal requirements in respect of agricultural products are grown within the country, the only exceptions of note being tropical or subtropical products such as tea, sugar, cotton, bananas, etc. In most years also it has been found necessary to import certain quantities of wheat, local production being insufficient for the country's needs.

Fruit is grown on a considerable scale, home requirements of all the important fruits and berries grown in temperate zones being satisfied by New Zealand orchard production. Citrus fruits are grown in the subtropical northern portion of New Zealand, and grapes are also cultivated in certain localities with a favourable climate. In addition to satisfying local demand, a substantial export trade in apples—and to a lesser extent in pears—is carried on in normal times.

In rural New Zealand and in many urban localities the kitchen garden supplies a very considerable proportion of family requirements of vegetables, while there is a substantial area planted in market gardens, both inside and outside borough boundaries. The major commercial cash vegetable crops are potatoes and onions. Local supplies of potatoes were previously adequate, but in recent years production has fluctuated, with a surplus in one year and perhaps a shortage in the next. In most recent years the production of onions has also been more than sufficient for local requirements. Although the importance of vegetable growing in agricultural production cannot be measured (a considerable, though unknown, proportion being non-commercial), it will be realized that this branch of crop production is of some consequence in that the requirements of the people are supplied from New Zealand production.

Coincident with the growth of the stock-raising industries, there has been a considerable increase in areas sown for supplementary fodders. While practically throughout the whole of New Zealand animals can be grazed in open pasture for the full twelve months of the year, the winter growth of grass, except in certain favoured localities, requires to be supplemented in order to keep stock in good condition during the colder months, and in some districts supplementary fodders are necessary in the drier summer months. The supply of supplementary fodders is adequate both in quantity and in quality, so that New Zealand imports animal-feeding stuffs to a very minor extent only.

Hay and ensilage crops are grown almost exclusively on the farms where they are consumed, though some districts specialize in the growing of certain other supplementary fodder crops. The bulk of the supplementary fodders other than grass and clover hay, and ensilage, is grown in the South Island, since the colder climate necessitates more extensive supplementary feeding than in the North Island.

The renewal of pasturage requires the annual supply of very considerable quantities of grass seeds, which are now grown almost entirely in New Zealand. There is a small import of certain classes of seeds, but this is almost negligible in relation to requirements; on the other hand, an appreciable export trade in some species of grass seeds has been developed.

GEOGRAPHIC DISTRIBUTION.—Grain growing is localized to a considerable extent, the Canterbury Land District, with its fertile plains, supplying in 1952-53, 57 per cent of New Zealand's wheat yield, 49 per cent of the oats threshed, and 74 per cent of the barley yield. Maize growing is largely confined to certain portions of the South Auckland and Gisborne districts. The commercial growing of peas is carried out extensively in Canterbury, and to a lesser extent in Marlborough and Otago. Canterbury alone produces over half of the total yield. The districts of Canterbury, Otago, and Southland supplied in 1952-53, 89 per cent of the total production of grass seeds. The Canterbury district produces the bulk of the commercial potato crop, followed by Wellington, while the growing of potatoes for the early market is of importance in the North and South Auckland districts.

Commercial orchards in New Zealand are largely confined to certain areas suited by climatic and soil conditions, while access to markets is also an important factor, particularly in respect of small fruits. The Nelson district is famed for its apple orchards, a high percentage of the crop from this district normally being exported. Central Otago is well suited to the growing of stone fruits, notably apricots. In several other districts commercial orchard production is successfully carried on; special mention may be made of citrus culture in certain northern districts.

Grape growing is of importance in North Auckland and Hawke's Bay, and to a lesser extent in South Auckland. Tobacco growing is mainly confined to the Waimea County, in the Nelson district, hop growing also being largely concentrated in this area.

A detailed analysis of arable cropping farms in 1949-50 was undertaken as part of the World Census of Agriculture. In the following table the number of arable cropping farms in each regional area is given and shows clearly the dominance of the South Island, which contributes 89-48 per cent to this type of farming.

Regional Area	Principally Arable Cropping	Arable Cropping						Special Cropping Units	Grass Seed Production	Other Arable Holdings	Total Arable Holdings
		With Sheep	With Dairying	With Beef	With Horse Raising	With Poultry	With Horticulture				
No.							Area			Acres	
<i>North Island</i>											
Northland	7		1							8 550	
South Auckland	1		1							2 85	
Waikato and Hauraki Lowlands				1						1 "	
Cape Colville											
Central Plateau	6		2					1		9 345	
Western Uplands	1									1 "	
Taranaki											
East Cape	68	7	3			6		5	4	93 4,728	
Hawke's Bay	62	3	2	1			1	1	20	5 96 3,477	
Rangitikei	11	9	2				3	3	1	29 4,218	
Manawatu	16	2	2				1	3	2	28 2,175	
Castlepoint											
Wairarapa	11	1	1					2	1	3 19 1,984	
Featherston	3	1	2							6 453	
Totals	186	23	17	1		6	1	13	8	30 7 292 18,065	
<i>South Island</i>											
Nelson	24	3	2							12 5 51 3,524	
Marlborough	58	40	7	3			2	25	30	30 13 176 37,745	
Westland											
North Canterbury	13	50							7	4 79 31,898	
Footfalls	26	31	7						11	2 89 28,056	
Canterbury Plains	317	281	58		2	6		12	15	32 899 89,682	
Christchurch	52	4	6				3	4	2	2 75 2,824	
Banks Peninsula	2	1						1		5 1,291	
Mackenzie	3	7	1						1	4 16 7,750	
South Canterbury	249	451	56		1	3		115	4	42 27 948 291,498	
Otago	12	8	1					3	3	2 29 3,705	
Central Otago	21	31							8	4 66 71,927	
Southern	24	25	4	2					4	84 8 151 148,226	
Totals	801	932	142	5	3	9	5	264	15	219 99 2,494 818,126	
N.Z. totals-Number	987	955	159	6	3	15	6	277	23	249 106 2,786	
Average	119,899	437,504	17,898	1,558	1,594	1,339	241	68,958	1,264	162,557 23,379 836,191	

* Not available separately. Areas are included in the total.

Commencing with the year 1952-53 the annual collection of farming statistics has been based on a sample survey whereby only one farmer in seven provides the basic statistics.

Statistics for 1952-53 are quoted out to the nearest whole number, but this practice has been followed merely for the sake of convenience. In actual fact the final digits in each case are meaningless.

The total area devoted to each crop in the 1952-53 season and the percentage area in each land district are given in the following table.

Name of Crop	Area Acres	Land District Percentages											
		North Auckland	South Auckland	Gisborne	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago	Southland
For threshing—													
Wheat	127,225				1		7	3	1		65	12	11
Oats	49,087				1		3	2	1		55	12	26
Barley	55,334				2		5	6	5		74	7	1
Maize	4,973	5	21	60	14								
Peas	27,265			2	2		4	21	2		57	9	3
Linseed	21,385										81	11	8
Other crops	7,705							1	3		55	33	8
For chaff, hay, or ensilage—													
Oats	32,009				1	2	6	5	3		37	26	20
Grasses and clovers	783,570	14	36	2	3	11	8	1	2		12	5	6
Lucerne	93,570		11	1	6	1	3	5	2		50	20	1
Green fodder—													
Oats	39,782	2	2		3	1	4	6	3		56	18	5
Rape	149,875				5		3	2	1		51	27	11
Kale (including chou moellier)	108,811	2	7	1	23	4	25	1	1		17	8	11
Other crops for chaff, hay, ensilage, or green fodder	44,239	3	6	1	4	2	7	5	2		31	23	16
Root crops—													
Swedes	170,871	2	16		2	5	8		1		7	23	36
Turnips	207,208	2	6		1	1	4	1	2	1	51	14	17
Turnips and rape	46,808					1	1	4	1		24	19	50
Potatoes	18,305	10	3	2	6	1	19	1	2		44	7	5
Other root crops	5,723	12	10	2	8	3	26		1		17	20	1
Grasses, clovers, and lucerne for seed	123,467			1	4		2	6	1		49	13	24
Tobacco	3,168									100			
Linseed	1,525										86		14
Other field crops	8,265	2	5	14	38		4	9	7		19		2
Orchards	21,464	20	10	3	18		3	3	19		8	15	1
Market gardens	15,489	26	7	3	15	1	17		8		13	10	
Grape, passion fruit, hop vines, and nurseries	3,418	26	14		16	3	8	22	5		5	6	

BUSHEL WEIGHTS.—For statistical and other purposes it is at times necessary to convert bushel units to a weight basis. For New Zealand produce conversion is effected by using the following weights per bushel for the commodities mentioned.

Produce	Weight of Bushel
	lb.
Wheat	60
Oats	40
Barley	50
Maize	56
Peas	56
Ryecorn	56
Beans	65
Grass seed	20

AREA UNDER CULTIVATION.—A general summary of the areas under cultivation during each of the last eleven years is given in the following table. The statistics quoted in this and other tables in this subsection relate to holdings of 1 acre or upwards outside borough boundaries.

In addition to the areas shown as under cultivation there is a considerable area of occupied land still unimproved. In 1952-53 the total area of unimproved occupied land was 23,360,006 acres. Cultivated land accounted in 1952-53 for 46 per cent of the total area in occupation, unimproved land accounting for the remaining 54 per cent. The area in phormium—a productive asset—is included in the total of unimproved land, while an appreciable proportion of tussock and other naturally established native grasses is of considerable economic utility, particularly in the South Island, where it is used for extensive pastoral farming.

Year	Pasture Land		Field Crops		Plantations		Orchards		Lying Fallow		Other Cultivated Land		Total Cultivated Land	
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
1942-43	16,992,343	1,911,833	851,258	19,190	110,000		96,426							19,981,050
1943-44	16,774,204	1,965,670	859,737	19,196	110,000		101,092							19,829,999
1944-45	16,619,715	2,013,214	867,450	19,614	110,000		102,058							19,732,049
1945-46	17,036,822	1,839,589	861,008	18,235	121,033		90,555							19,967,242
1946-47	17,013,057	1,984,395	869,959	18,253	123,654		94,545							20,103,863
1947-48	17,088,810	1,904,377	871,356	18,667	122,812		96,892							20,102,914
1948-49	17,033,744	1,985,381	884,077	18,667	106,270		106,070							20,128,199
1949-50	17,164,957	1,931,393	908,360	18,853	90,819		114,448							20,228,830
1950-51	17,042,347	2,061,429	902,164	19,722	114,536		111,032							20,251,230
1951-52	16,797,344	2,062,910	915,835	19,973	143,367		109,598							20,049,027
1952-53	16,574,439	2,131,170	949,533	21,464	173,626		111,364							19,961,596

* Excluding areas of grasses and clovers cut for seed, hay, or ensilage, which have been included in field crops.

† Approximate.

In the following pages statistics of the principal crops are quoted with explanatory comment. In addition to summary tables, covering in each instance a range of related items, important individual crops are discussed under separate headings.

PRINCIPAL FIELD CROPS.—The areas under each of the principal field crops for the last five years have been as follows.

Crop	1948-49	1949-50	1950-51	1951-52	1952-53
	Acres	Acres	Acres	Acres	Acres
Wheat	148,653	128,240	147,008	91,837	135,736
Oats	194,850	161,553	133,596	126,093	120,878
Barley	70,807	70,525	58,535	54,637	69,288
Maize	12,448	12,329	11,665	10,338	9,421

* Including turnips and rape mixed.

† Excluding wheat, oats, barley, maize, and peas fed off.

Crop	1948-49	1949-50	1950-51	1951-52	1952-53
Peas	49,813	41,744	22,536	24,728	27,265
Linseed	7,738	7,544	16,224	24,437	21,385
Linseed flax	4,717	2,791	173	1,869	1,525
Potatoes	18,940	17,794	16,804	13,276	18,305
Turnips and swedes*	384,125	390,056	402,350	398,072	424,887
Mangolds	3,066	2,547	2,283	2,069	2,005
Onions*	1,175	887	1,053	1,135	1,405
Tobacco	3,484	3,376	3,324	3,152	3,168
Green fodder†	261,591	298,168	289,852	279,755	277,012
Grasses, clovers, and lucerne for seed	160,057	148,083	212,099	196,378	123,467
Grasses and clovers for hay or ensilage	601,384	580,369	660,689	742,072	783,570
Lucerne for hay or ensilage	47,224	52,042	68,622	78,907	93,570
Other crops	15,309	13,345	14,616	14,155	18,283
Totals	1,985,281	1,931,393	2,061,429	2,062,910	2,131,170

* Including turnips and rape mixed.

† Excluding wheat, oats, barley, maize, and peas fed off.

The figures quoted in the foregoing table in respect of wheat, oats, barley, maize, and peas relate to the total areas under these crops for grain or fodder. It should be noted that a considerable portion of the area under certain crops, particularly oats, is cut for chaff or is fed off. In regard to peas it should be noted that areas of this crop for domestic consumption in the form of green peas are included under market gardens and crops for processing.

GRAIN AND SEED CROPS.—Details of areas for threshing, total yields, and yields per acre of the principal grain and seed crops during the last five years are set out in the following table.

Year	Wheat	Oats	Barley	Maize	Peas	Linseed
<i>Areas For Threshing</i>						
	Acres	Acres	Acres	Acres	Acres	Acres
1948-49	146,707	78,300	58,707	6,588	49,152	7,738
1949-50	125,159	52,645	56,793	7,240	41,319	7,544
1950-51	144,763	35,808	46,154	6,119	21,701	16,224
1951-52	89,955	45,561	46,064	6,449	24,379	24,437
1952-53	127,225	49,087	55,334	5,973	27,265	21,385
<i>Total Yields</i>						
	Bushels	Bushels	Bushels	Bushels	Bushels	Cwt.
1948-49	5,958,026	3,718,597	2,256,362	357,270	1,195,196	55,406
1949-50	4,899,668	2,620,252	2,433,835	463,033	1,242,780	69,602
1950-51	6,271,928	1,827,953	1,902,432	362,533	625,784	148,699
1951-52	3,890,167	2,469,530	2,182,175	381,835	730,288	222,269
1952-53	4,525,298	2,385,129	2,139,886	349,194	614,417	194,444
<i>Yields Per Acre</i>						
	Bushels	Bushels	Bushels	Bushels	Bushels	Cwt.
1948-49	40.61	47.49	38.43	54.22	24.32	7.16
1949-50	39.15	49.77	42.85	62.95	30.08	9.15
1950-51	43.33	51.05	41.22	59.25	28.84	9.13
1951-52	43.25	54.20	47.37	59.21	29.96	9.10
1952-53	35.57	48.59	38.67	58.46	22.54	9.09

It was the practice prior to 1940 to import considerable quantities of small seeds, but during the war years it became necessary to make an effort to raise the full domestic requirements in this direction within New Zealand. The success of the effort is exemplified in the total areas planted in other crops for seed (i.e., crops other than the principal crops stated above, wheat, oats, barley, maize, peas, and linseed together with lupins), which rose from 342 acres in 1938-39 to 6,074 acres in 1942-43. Although there has been some reduction from the peak figure of that year, the area was still substantial in 1951-52, which was the last year of full enumeration, being 5,862 acres. These figures covered rape, kale, white-fleshed turnips, swedes, mustard, beans, and ryecorn, together with a variety of smaller areas relating to crops such as onions, vetches, rashes, radish, silver beet, red beet, carrots, pumpkins, marrows, leeks, cauliflower, cabbage, parsnips, etc. It was found in most instances that the locally produced seed was fully up to, and indeed in some cases superior to, the standard of that previously imported. It has been shown, for instance, that swede and turnip crops grown from locally produced seed have been comparatively free from the widespread dry-rot disease which formerly attacked these crops when grown from imported seed.

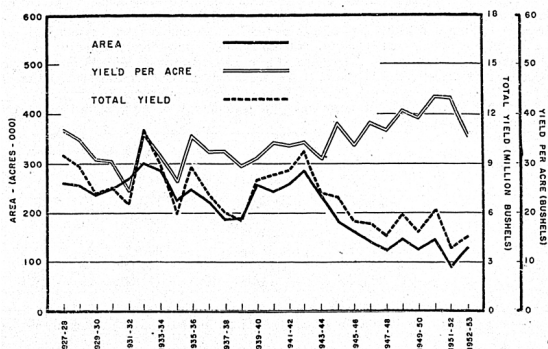
WHEAT.—Wheat is the most important grain crop grown in New Zealand. The industry enjoys a sliding scale of Customs duties levied on imports of wheat and flour, and also regulation of prices on a basis that is calculated to give the grower a satisfactory return for his produce.

Further efforts in encouraging wheatgrowing with a view to making New Zealand entirely self-sufficient in respect of requirements of wheat and wheaten products were initiated by the Government in 1936. An Order in Council which came into force in March of that year prohibits the importation of wheat or wheaten flour, except under permit granted by the Minister of Industries and Commerce. With a view to reducing imports of Grade A wheat necessary for mixing purposes, the Wheat Research Institute has been endeavouring to encourage the growing in New Zealand of better-quality varieties which do not require blending with imported wheat. The Institute has already achieved satisfactory results, its most outstanding success being the development of a Tuscan variety known as Cross 7. Though not grown on a commercial scale until 1935-36, Cross 7 has for the last eleven seasons held pride of place in the area grown for grain. Second and fourth places are taken by Fife Tuscan and Tainui respectively; these types also having been evolved by the Wheat Research Institute.

Despite the protection and encouragement given to wheatgrowing, the results have, in the main, been disappointing. Appreciable increases occurred in the four seasons 1939-40 to 1942-43, but since then there has been an irregular decline in sowings until the lowest point, which occurred in the season 1951-52, when only 89,955 acres were harvested. In the 1952-53 season the area increased to 127,225 acres, that is by over 41 per cent, but unfortunately the average yield dropped owing to adverse climatic conditions, and the total yield of 4,525,298 bushels was only 17 per cent higher than in the 1951-52 season.

The following diagram shows the fluctuations that have occurred in the area sown in wheat during the last twenty-five years, together with the total yield and the average yield per acre.

AREA AND YIELDS OF WHEAT FOR THRESHING



Wheat Committee.—Control of the importation of wheat and flour and of the distribution of both imported and locally produced wheat rests with the Wheat Committee. The operations of this Committee, which consists of representatives of flour-millers, wheatgrowers, and bakers, with the Minister of Industries and Commerce as Chairman, and his nominee from the Department of Industries and Commerce as Deputy Chairman, are governed by the Board of Trade (Wheat and Flour) Regulations.

All New Zealand milling wheat is purchased from farmers by the Wheat Committee through the agency of the grain merchants acting as brokers for the Committee. The Committee is responsible for the importation of any wheat and flour and the distribution of imported poultry wheat in the North Island; in the South Island poultry wheat is not controlled. Its functions include arrangements for the processing of wheat and the sale of flour to merchants, bakers, pastrycooks, grocers, and others.

The annual consumption of wheat in New Zealand approximates 12 million bushels—some 8 million bushels being required for flour, and the balance for poultry food and resowing purposes. Over the past five seasons the annual local production of wheat has averaged 5,109,000 bushels, while imports have over the same period averaged 6,500,000 bushels.

Varieties of Wheat.—The choice of wheat varieties for sowing is influenced by their suitability to local conditions of climate, soil type, etc. Wheatgrowers receive valuable guidance regarding suitable varieties as the result of research work and field trials undertaken by the Wheat Research Institute and the Department of Agriculture. Particulars regarding varieties of wheat were obtained covering 79 per cent of the total area of wheat threshed for the harvest of 1952. Of the three groups of varieties, Tuscan accounted for 95.9 per cent of the area and 96.2 per cent of the yield; Hunter's, 0.5 per cent of the area and 0.6 per cent of the yield; and Pearl, 3.6 per cent of the area and 3.2 per cent of the yield. Of the individual varieties, Cross 7, previously referred to, produced 72.7 per cent of the total yield, while Fiat-Tuscan produced a further 7.4 per cent. These two varieties accounted for 73.6 per cent of the area under area respectively.

OATS.—The area under oats has declined fairly steadily during the past decade, the greatest decrease being in oats for chaff, hay, and ensilage. This decline is parallel with the replacement of horses by machinery. During the first five years of the decade (1943-48) the average area under oats for all purposes was 199,640 acres, and of this figure the proportion for chaff, etc., was 45 per cent, whereas for the last five years (1948-53) the comparable figures are 147,394 acres and 32 per cent. Taking the same two 5-yearly periods the average area under oats for chaff, etc., has declined by 48 per cent.

The yield per acre of oats threshed for grain, etc., does not show any definite trend during the past ten years, but fluctuates between 45 and just over 54 bushels, depending on seasonal conditions. On the other hand the yield per acre of oats for chaff, hay, and ensilage shows a fairly steady increase from about 1½ tons for the first few years to almost 2½ tons for the season 1952-53.

The total yield, comparing the average per season for the five years 1943-48 with the average per season for the five years 1948-53, shows, in the case of oats threshed for grain, etc., a decrease of over 9 per cent and, in the case of chaff, etc., a decrease of nearly 42 per cent.

The total and average yields of oatsen grain and of chaff, hay, or ensilage for the five seasons ending with 1952-53 were as follows.

Season	Grain		Chaff, Hay, or Ensilage	
	Total Yield	Average Per Acre	Total Yield	Average Per Acre
	Bushels	Tons	Bushels	Tons
1948-49	3,718,597	47.49	122,518	1.82
1949-50	2,620,252	49.77	100,183	1.86
1950-51	1,827,953	51.05	80,971	1.98
1951-52	2,469,530	54.20	84,266	2.12
1952-53	2,385,129	48.59	71,700	2.24

Varieties of Oats Threshed.—An analysis of the threshing returns relating to the season 1951-52 gave the following percentage distribution of varieties of oats threshed (no later figures are available).

Variety of Oats Threshed	Average Yield Per Acre	Percentage of Total Area	
		Per Cent	Total Yield Per Cent
White	60.93	67.02	76.90
Algerian	38.06	22.71	16.07
Dun	38.21	6.89	4.90
Black	46.32	2.48	2.13
All varieties	53.81	100.00	100.00

BARLEY.—Prior to 1945 considerable quantities of barley were imported, mainly for use as stock food, but the quantities imported since then have declined considerably. Outstanding increases in the area planted were recorded in each of the four years ending in 1947-48, the area threshed in that year (63,398 acres) and the yield of grain (2,087,900 bushels) exceeding all previous figures. In each of the succeeding two years there was a moderate decline in sowings, but record average yields resulted in new production records. In 1950-51 there was a sharp fall in the area harvested, followed by a further slight fall in 1951-52, but a record average yield (47.37 bushels per acre) resulted in the total yield (2,182,175 bushels) being little below the record figures of 1948-49 and 1949-50. The area threshed in the season 1952-53 was 55,334 acres, an increase of 20 per cent on the previous season. However, at the same time, the yield per acre dropped to 38.67 bushels, and the total yield of 2,139,886 bushels was actually slightly less than the comparable figure for 1951-52.

Of the total area grown, 80 per cent was threshed for grain in 1953, the remaining 20 per cent being used for stock fodder (mostly feeding off).

Malting varieties account for approximately 86 per cent of the area sown in barley.

PEAS.—The table shown earlier relating to "Grain and Seed Crops" reveals that both the area and total yield of peas have fallen considerably during the last five years. This trend is also shown in the export figures for the commodity. In 1949 nearly 850,000 bushels were exported, whereas by 1952 the amount had fallen to approximately 630,000 bushels.

POTATOES.—The production of potatoes has previously been adequate to meet the home market, but in recent years there have been considerable fluctuations, a surplus in one year being followed by a shortage in another. The problem of the disposal of surplus quantities is rendered difficult by import restrictions on New Zealand potatoes entering Australia, although certain quantities were admitted in 1940 and again in 1950 owing to shortages of supplies in that country. Strangely enough, in each of the years mentioned the area in potatoes in New Zealand was comparatively small, but particularly high yields resulted in surplus quantities being available.

Low acreages in 1940-41 and 1941-42 coincided with an increased demand in the form of requirements for the Armed Forces, and the Government entered into contracts with growers (continued after the war, but limited to main-crop potatoes), all potatoes produced under these contracts being paid for. This had the desired effect, and the area planted rose from 15,201 acres in 1941-42 to 29,774 acres in 1944-45. Since then the trend has been downwards, and a low area in 1948-49, combined with a comparatively low yield, resulted in potatoes being in short supply towards the end of the season, and 3,181 tons were imported from Australia. The area planted in 1949-50 was 1,146 acres less than in 1948-49, but a particularly heavy crop produced an increase of 25,798 tons in the total yield.

In 1950-51 the area further receded to 16,804 acres, but the 1951-52 crop was the lowest in area and yield for many years with 13,276 acres producing 69,841 tons, necessitating heavy importations from Australia to the extent of 31,337 tons up to the end of September 1952. The 1952-53 season showed an improvement with 18,305 acres yielding 94,652 tons. The yield per acre was lower than usual at 5.17 tons, and it was necessary to import 7,012 tons

during the year ended September 1953.

Under the Potato Growing Industry Act 1950 a Potato Board was established consisting of seven members, three of whom are representative of the growers on an elective basis, three nominated by the New Zealand Grain, Seed, and Produce Merchants' Association (Incorporated), and one an officer of the Public Service acting in an advisory capacity.

The principal functions of the Board are to ensure that an adequate supply of main-crop potatoes are available for consumption in New Zealand, and for that purpose to enter into contracts with growers for the growing of main-crop potatoes. The Act provides that the Board may impose a levy not exceeding 13s. per ton on main-crop potatoes sold by growers, the proceeds of which are to be applied by the Board in payment of charges, etc., for which it may become liable in the exercise of its functions.

Figures for area and yield for the last five years are as follows.

Year	Area		Total Yield		Yield Per Acre	
	Acres	Tons	Tons	Tons	Tons	Tons
1948-49	18,940	109,644	5.79			
1949-50	17,794	135,442	7.61			
1950-51	16,804	119,778	7.13			
1951-52	13,276	69,841	5.26			
1952-53	18,305	94,652	5.17			

The 1951-52 yield was made up of 45,678 tons of table potatoes, 20,882 tons of seed potatoes, and 3,281 tons of pig, etc., potatoes. The corresponding quantities in 1950-51 were 90,043 tons, 22,632 tons, and 7,103 tons.

Since 1936 special statistics of areas and yields of potatoes, classified according to varieties as well as by origin of seed planted (Government certified or otherwise), have been compiled annually. The information is obtained from a special collection from growers in July, by which time the bulk of the crop has been harvested. The inquiry is limited in the main to growers of 2 acres and over, but the resultant details which cover approximately 50 per cent of the total potato acreage can be taken as representative of the crop as a whole. "Government certified" seed is that for which a Government certificate has been issued in respect of purity, etc. Seed obtained from the ensuing crop cannot be so designated unless the requisite certificate is issued by the authorities. The following table gives particulars of this special collection for each of the last five years available. Similar information for individual varieties is published in the annual Report on Farm Production Statistics.

Year	Government Certified			Uncertified			Not Stated			Totals	
	Area	Total Yield	Yield Per Acre	Area	Total Yield	Yield Per Acre	Area	Total Yield	Yield Per Acre	Area	Total Yield
	Acres	Tons	Tons	Acres	Tons	Tons	Acres	Tons	Tons	Acres	Tons
1947-48	5,902	47,815	8.10	5,406	37,288	6.90	339	2,224	6.65	11,647	87,327
1948-49	5,459	35,696	6.54	4,783	26,423	5.52	626	3,957	6.32	10,868	66,076
1949-50	5,310	43,794	8.25	3,742	26,593	7.11	517	3,619	7.00	9,569	74,006
1950-51	5,116	43,108	8.43	2,999	20,471	6.83	508	3,139	6.18	8,623	66,718
1951-52	4,853	29,354	6.05	3,313	18,062	5.45	684	3,497	5.11	8,850	50,913

The table plainly indicates the superior yielding capacity of certified seed. The average yield per acre over the five years for certified seed was 7.50 tons, as compared with 6.36 tons for uncertified seed. The advantage of 1.14 tons per acre in favour of crops from certified seed represents a yield superiority of almost 18 per cent. It is also of interest to note the increasing use of certified seed. Of the areas for which the information was supplied in 1938-39 the proportion of certified seed used was 35.5 per cent, as compared with 54.8 per cent in 1951-52.

ONIONS.—Areas in, and yields of, onions for the last five years are as follows.

Year	Area		Total Yield		Yield Per Acre	
	Acres	Tons	Tons	Tons	Tons	Tons
1948-49	1,175	10,674	9.08			
1949-50	887	8,386	9.45			
1950-51	1,053	9,644	9.16			
1951-52	1,135	10,336	9.11			
1952-53	1,405	12,510	8.90			

In earlier years the production of onions was rarely sufficient to supply domestic requirements. As onions are a semi-perishable commodity it was found convenient to export in the flush of the New Zealand season, and to obtain supplies from overseas later in the year. However, a considerable improvement has been effected in the keeping qualities of the varieties grown, and no onions were imported into New Zealand during the eight calendar years ended 1952, while over the last five years exports have averaged 1,785 tons annually.

LINSEED.—The area under this crop has fluctuated considerably over a long period. In 1917-18 an area of 1,456 acres was recorded under linseed. This rose to 12,119 acres in 1923-24, dropped to 2,800 acres in 1929-30, and rose again to 12,200 acres in 1930-31. After further fluctuations the area planted fell away to 354 acres in 1942-43, then rose in successive years to a peak of 18,728 acres in 1947-48. Then followed a recession for two successive years to less than half the 1947-48 acreage. The area in 1950-51 showed a firm increase to 16,224 acres, followed by a new record high level of 24,437 acres in 1951-52, and a slight recession to 21,385 acres in 1952-53.

The 1952-53 area gave a yield of 194,444 cwt. of seed at an average of 9.09 cwt. per acre. Areas for the last five years are as follows.

Year	Area
1948-49	7,738
1949-50	7,544
1950-51	16,224
1951-52	24,437
1952-53	21,385

SUPPLEMENTARY FODDER CROPS.—Although grass is the main crop of the farmer in New Zealand, at certain periods during the year the pastures need supplementing in order that the grassland may not become unduly exhausted, and also in order to maintain stock in a satisfactory condition. In mid-winter the grass is at a low stage of productivity generally, while under dry summer conditions it loses part of its nutritive value. During these periods it is necessary that some extra feed should be provided, and this is usually done either by cutting the grass for hay or ensilage when there is an ample surplus on the pastures during the flush of the growing season, or by the provision of green fodder or root crops.

The following table gives detailed figures of the areas of the supplementary fodder crops available during each of the last five years.

Year	Chaff, Hay or Ensilage			Green Fodder		Root and Other Crops for Feeding to Stock	Total Area of Fodder Crops
	Cereal Crops	Grasses and Clovers, Including Lucerne	Other Crops	Cereal Crops	Other Crops		
	Acres	Acres	Acres	Acres	Acres	Acres	Acres
1948-49	69,098	648,608	67,358	262,252		389,353	1,436,669
1949-50	55,058	632,411	75,752	298,593		394,871	1,456,685
1950-51	42,477	729,311	75,483	290,687		406,613	1,544,571
1951-52	41,477	820,979	53,399	280,104		401,774	1,597,733
1952-53	"	877,140	"	277,012		429,205	1,681,061

* These two items total 97,704 acres—separate figures not available.

In 1952-53 grasses and clovers cut for hay or ensilage totalled 783,570 acres and lucerne 93,570 acres. Oats was the only cereal crop utilized in any quantity for this purpose, the area of oats cut for chaff, hay, or ensilage being 32,009 acres. Oats also was the principal cereal crop fed off to stock, amounting to 39,782 acres. The principal green fodder crops apart from oats are rape (149,875 acres) and kale, including clover muller (108,811 acres). Swedes and turnips are the principal root crops grown in New Zealand, the total area sown in these crops in 1952-53 being 424,887 acres (including 46,808 acres of turnips and rape mixed). Other root crops included 2,005 acres of mangolds.

GRASS SEED.—The total area of grasses, clovers, and lucerne cut for seed during the 1952-53 season was 123,467 acres, as against 196,378 acres in 1951-52. Canterbury, Otago, and Southland land districts between them provided over 86 per cent of the area cut in 1952-53.

The areas of grass, clover, and lucerne crops harvested for seed, distinguishing the principal varieties, during each of the five years 1948-49 to 1952-53, are given in the table following.

Crop	1948-49	1949-50	1950-51	1951-52	1952-53

Crop	1948-49	1949-50	1950-51	1951-52	1952-53
<i>Acres</i>					
Rye-grass—					
Perennial	51,226	43,712	81,927	49,136	28,770
Italian	4,095	3,461	9,946	7,572	4,241
Short-rotation (H.)	8,629	8,001	12,647	15,753	9,319
Cocksfoot	6,680	4,915	7,288	8,987	4,272
Chewings fescue	19,436	17,755	14,831	15,791	14,437
Crested dogtail	7,913	5,690	7,751	8,234	7,110
Red clover (including cow-grass)	22,296	20,075	18,710	14,724	9,959
White clover	27,303	29,512	43,329	65,513	27,754
Other grasses and clovers	12,479	14,962	15,670	14,668	21,605

Large quantities of grass seed have been exported during recent years, especially to the United Kingdom, Australia, and the United States of America. In 1947 a considerable amount of grass seed was exported to various continental countries, particularly to Belgium. Details of the volume and value of exports during recent years will be found in Section 10B of this issue.

PASTURE GRASSES.—Researches and experiments in regard to pasture grasses are regular features of the activities of both the Department of Agriculture and the Department of Scientific and Industrial Research. These experiments, which extend right on to individual farms throughout New Zealand, and are conducted in co-operation with the farmers themselves, are wide in their application, and cover all the major phases of pasture management, dealing in particular with such items as pasture mixtures, suitability as to soil types, methods of establishment and management, the efficient use of fertilizers, etc. The results are made available per medium of the *Journal of Agriculture* and such allied publications, as well as by special pamphlets which are distributed without charge. The farmer is thus enabled to avail himself of, and profit by, highly specialized knowledge and experience. In addition, a constant endeavour is being made not only to improve existing strains by such measures as seed certification and the provision of pedigree seed, but also to evolve new strains. At the beginning of the year 1953 there were 17,819.49 acres under artificially sown grasses (including 1,000,607 acres cut for seed, hay, or ensilage during the season), and in addition 13,299,008 acres of occupied land still remained in tussock or naturally established native grasses, making a total of 31,118.57 acres of grassland being farmed.

The following table shows the respective areas occupied by artificially sown grasses and by tussock and other naturally established native grasses during the five years specified.

Year	Artificially Sown Pasture Grasses*		Tussock and Other Naturally Established Native Grasses	Total Area Under Grass*
	Cut for Seed, Hay, or Ensilage	Not Cut for Seed, Hay, or Ensilage†		
	Acres	Acres	Acres	Acres
1948-49	808,665	17,280,112	13,543,915	31,632,692
1949-50	780,494	17,411,243	12,930,717	31,122,454
1950-51	941,410	17,282,604	13,112,688	31,336,702
1951-52	1,017,357	17,028,726	13,250,474	31,296,557
1952-53	1,000,607	16,818,542	13,299,008	31,118,157

* Includes lucerne.

† Includes approximately 250,000 acres also sown with crops.

TOP-DRESSING (PASTURE LANDS).—Top-dressing in New Zealand is carried out mainly on cattle-grazing areas, including, of course, dairy farms; the North Island, which contains 87 per cent of the total cattle, accounted in 1952-53 for 77 per cent of the area top-dressed.

The following table shows particulars of areas of grassland top-dressed during the last five years.

Year	Area Top-dressed			
	With Artificial Fertilizer Only	With Lime Only	With Both Artificial Fertilizer and Lime	Total Area Top-dressed
	Acres	Acres	Acres	Acres
1948-49	2,981,899	584,427	1,496,086	5,062,412
1949-50	3,754,295	589,608	1,394,524	5,738,427
1950-51	4,155,943	649,400	1,521,311	6,326,744
1951-52	4,361,241	664,541	1,436,401	6,462,183
1952-53	4,941,697	626,372	1,597,834	7,165,903

Since 1946 supplies of artificial fertilizer have been coming to hand in greater quantities than during the war years, and the area top-dressed with artificial fertilizer in 1952-53, including cases where time also was used, was 6,539,531 acres, an increase of 741,889 acres over the 1951-52 figure. A noticeable feature was the increased use of lime during the period that phosphate fertilizers were in such short supply.

The activities of the Department of Agriculture and the Department of Scientific and Industrial Research in the treatment of experimental plots from the various aspects of soil and crop requirements, and the subsequent data published thereon, have been an important factor in conveying to the farmer the many advantages to be derived from the scientific treatment of pastures.

While top-dressing in the past has been practically confined to sown grasses on the flat and gently undulating country, recent years have seen the application of fertilizer to the surface-sown hill-country pastures in increasing quantities, first by the use of the blower and later by broadcasting from aircraft. The latter method particularly has expanded very rapidly since experimental work was first carried out in 1948 by the Royal New Zealand Air Force at the request of the Soil Conservation and Rivers Control Council. Further information in this connection is contained in Section 15.

GARDENS AND PLANTATIONS.—The figures for market gardens, plantations, etc., for the last five years are shown below. State gardens and plantations are covered by these figures. It should be noted that the statistics relate only to holdings of 1 acre or upwards outside boroughs.

Year	Market Gardens	Nurseries/Private Gardens, etc.		Plantations
		Acres	Acres	
1948-49	13,436	1,249	83,822	884,077
1949-50	13,440	1,587	97,641	908,360
1950-51	13,984	1,191	93,971	902,164
1951-52	13,534	1,273	92,942	915,835
1952-53	15,489	1,571	92,457	949,531

Market Gardens.—The mobilization of large numbers of troops for home-defence purposes early in 1942, the presence of considerable numbers of Allied servicemen in New Zealand, and the demand for vegetables for members of the Allied Forces in the South Pacific, resulted in a considerable expansion in vegetable production during the 1942-43 season, followed by further increases in 1943-44 and 1944-45. With the passing of this special demand for vegetables, the area in market gardens fell from 16,826 acres in 1944-45 to 13,161 acres in 1945-46.

Additional information collected in 1950 showed that the 13,440 acres recorded in that year were distributed as follows: Gooseberries, 146 acres; black currants, 154 acres; red currants, 26 acres; raspberries, 830 acres; other small fruits and berries, 331 acres; and vegetable crops, 11,953 acres.

The Commercial Gardens Registration Act, which came into force on 1 May 1943, provides for the compulsory registration of all areas of half an acre or over of certain specified vegetables for sale for human consumption. The following vegetables are covered by the Act: asparagus, bean, beetroot, Brussels sprouts, cabbage, carrot, cauliflower (including broccolo), celery, cucumber, leek, lettuce, marrow, melon, parsnip, pea, pumpkin, radish, rhubarb, silver beet, spinach, squash, sweet corn, tomato. The annual report of the Department of Agriculture states that the total area of commercial gardens registered under the Act was 19,077 acres at 30 September 1953, the number of growers being 2,826. The difference between this area and the corresponding figure in the preceding table would be largely accounted for by the fact that areas within borough boundaries are included in the registration figures.

Nurseries.—Since 1939 owners of nurseries raising for sale certain specific trees, shrubs, and plants have been required to register their nurseries before being permitted to sell plants. The number of nurseries so registered at 31 December 1952 totalled 466, a decrease of 33 on the previous year mainly as a result of small and uneconomic tree-production nurseries ceasing operations.

The 1,587 acres recorded under nurseries on holdings of 1 acre and over outside borough boundaries in 1950 were divided into the following categories: flowers and ornamental shrubs, 812 acres; forest-tree seedlings, 352 acres; seedling fruit trees, 255 acres; and vegetable seedlings, 168 acres.

ORCHARDS AND THE FRUIT INDUSTRY.—A great impetus to the planting of fruit trees was given by the discovery that tracts of land, principally in the Nelson land district, which formerly were regarded as being practically useless, were eminently suited for growing fruit, particularly apples. For a time considerable areas of this and other land were annually added to New Zealand's orchards, but the acreage then declined until it became stabilized in the neighbourhood of 25,000 acres. However, a further decline set in after 1935-36, and continued until 1945-46, the area in that year showing a decrease of 6,837 acres as compared with the 1935-36 total of 25,072 acres. It will be noted from the figures given below that there has been a slow but steady increase since 1945-46. These figures refer to orchards of a quarter acre or over on holdings of one acre or more situated outside borough boundaries.

The following table shows the area outside borough boundaries which has been returned as under fruit trees at each of the last eleven annual enumerations.

Year	Acres
1942-43	19,190
1943-44	19,196
1944-45	19,614
1945-46	18,235
1946-47	18,253
1947-48	18,667
1948-49	18,667
1949-50	18,853
1950-51	19,722
1951-52	19,973
1952-53	21,464

The production of apples predominates, this crop accounting for over half the total area in orchards. The percentages (estimated) of trees under production of the principal kinds of fruit in commercial orchards are as follows: apples, 53.1; pears, 6.8; stone fruits, 31.9; lemons, 2.9; other citrus, 4.4; other tree fruits, 0.9.

The Orchard Levy Act 1953 provides for the levying in each year of an amount not exceeding £2 10s. on occupiers of orchards by the New Zealand Fruitgrowers' Federation, for use as required in assisting and developing the industry. Authority also exists for the imposition of a special orchard levy in the case of apple, pear, quince, peach, nectarine, apricot, plum, cherry, citrus, and other orchards for the purpose of controlling any specified disease within a certain district. Neither levy is payable in respect of any orchard with fewer than 120 fruit trees.

Commercial orchards registered at 31 March 1952 numbered 4,169, of which 2,163 were taxable and 2,006 non-taxable.

The latest figures available show that the relative sizes of taxable orchards in New Zealand were—

Acres	Number
1 to 5	1,076
6 to 10	590
11 to 15	261
16 to 20	116
21 to 25	50
26 to 50	59
Over 50	11

Number of trees in commercial orchards—i.e., orchards with 120 trees or more—at 31 March 1952, according to the principal varieties, was as follows: apple, 1,080,000; pear, 138,000; quince, 18,500; peach, 319,500; nectarine, 33,000; apricot, 122,000; plum, 148,500; cherry, 25,500; lemon, 58,000; orange, 37,000; grapefruit, 51,000; mandarin, 2,000.

The growing of outdoor grapes is chiefly confined to the districts situated between the North Cape and Hawke's Bay, the total area returned in vineyards in 1953 being 1,140 acres. The greater portion of the crop is used for winemaking, several vines of excellent quality being manufactured.

Marketing of Apples and Pears.—Upon the outbreak of war in 1939, by agreement with the New Zealand Fruitgrowers' Federation, the Marketing Department assumed the functions of the Fruit Export Control Board established under the Fruit Control Act 1924. The Board retired from active participation, but remained as an advisory committee. The growers were given a fixed return for their fruit, the Government undertaking to sell the whole crop within New Zealand and to bear any losses consequent upon such policy. This action was taken owing to the loss of export markets resulting from lack of shipping space on account of war conditions. The Apple and Pear Marketing Act 1948 and its amendments of 1950 and 1951 established the New Zealand Apple and Pear Marketing Board consisting of five members, two of whom are nominated by the New Zealand Fruitgrowers' Federation. The principal functions of the Board are the purchase and sale of apples and pears and matters incidental thereto, including export arrangements.

The Act provides that before 31 March in each season the Minister of Marketing, after consultation with the Board, shall declare an average price to be paid to growers for apples and pears grown during that season. This price is based on the standard cost of production. Thus the total amount paid by the Board for fruit purchased by it from growers in any season is the average price multiplied by the total quantity of fruit purchased. The actual prices paid by the Board to individual growers are fixed by the Board having regard to varieties, grades, quality, etc., of the fruit supplied.

If in any season the total receipts from sales of fruit by the Board exceed the amount which the Board is required to pay to growers in accordance with the declared average price, the surplus after deduction of costs and expenses incurred by the Board is retained as a reserve fund. If sales in any season realize less than the amount the Board is required to pay, the deficiency is met from the reserve fund. All apples and pears are not purchased by the Board, the Act making provision for certain private sales by growers in accordance with regulations issued thereunder. Details of the volume and value of apples exported during recent years will be found in Section 10B of this issue.

Marketing of Citrus Fruits.—The Citrus Marketing Authority Regulations 1953 set up the Citrus Marketing Authority, replacing the Marketing Division of the Department of Agriculture, with which was associated the Citrus Marketing Committee, in the assembly, treatment, packing, and marketing of New Zealand citrus fruit.

The Authority consists of five persons, four of whom are nominated by the New Zealand Citrus Council and representing the producers, and one person appointed by the Minister of Agriculture to represent the consumers.

The Authority controls the present system which is built up upon the assembly and packing of fruit at Kerikeri, Auckland, Tauranga, and, through an agent, at Gisborne. The Authority has power to acquire fruit coming within the scope of the regulations, and either directly or through agents arrange for its packing and for its distribution and final sale. This industry is entirely dependent upon market conditions.

The principal task is to sell fresh lemons, either directly or through agents, throughout New Zealand at prices related to cost of production, and to process unmarketable but otherwise sound fruit into by-products such as fruit juice and lemon peel.

HOPS.—According to returns covering holdings of 1 acre or over outside boroughs there were 611 acres under hop vines in the season 1952-53. In addition, there are certain areas in boroughs, and the annual report of the Department of Agriculture states that the gross area was 618 acres during the 1951-52 season.

Practically the whole of the hop gardens are located in Waimea County. Production per acre usually ranges between 1,200 lb. and 1,500 lb., and the aggregate crop is usually sufficient to satisfy local requirements as well as to provide a surplus for export. Production in the 1951-52 season was 872,000 lb., compared with 1,250,000 lb. in the previous year, providing a surplus for export of only 340 bales (99,000 lb.), compared with 975 bales in 1950-51.

TOBACCO.—Although the cultivation of tobacco leaf on a commercial basis was initiated comparatively recently, the industry has made marked progress and growers are becoming increasingly familiar with the methods and plant required for the production of cured leaf acceptable to manufacturers. Since the establishment of the Tobacco Board in 1936 production has risen from 1,197,161 lb. in 1935-36 to 4,088,189 lb. in 1951-52. Commercial tobacco growing is confined to those to whom licences are issued by the Tobacco Board established under the Tobacco Growing Industry Act 1935 to control the industry. Most of the tobacco produced is the cured, producing a yellow-leaf tobacco which is largely used for the manufacture of cigarettes, the balance, air-cured, being used mainly in the manufacture of smoking mixtures and pipe tobacco.

The following particulars relating to tobacco production have been taken from the annual report of the New Zealand Tobacco Board. It should be noted that the figures relate to the total commercial tobacco production and not merely to holdings of 1 acre or over situated outside borough boundaries, as is the case with most of the statistics contained in this Section.

Season	Number of Growers	Area Planted		Production
		Acres	lb.	
1947-48	661	4,322	4,770,827	
1948-49	619	4,393	5,000,470	
1949-50	541	3,899	4,711,613	
1950-51	529	3,904	5,436,314	
1951-52	496	3,648	4,088,189	

The production figures represent the weight of the leaf purchased from growers before redrying. Flue-cured leaf accounted for 98.71 per cent and air-dried leaf for 1.29 per cent of the 1951-52 crop.

Shortage of labour continues to be a major factor militating against the expansion of the industry, and in a number of cases has been responsible for a reduction in areas. Mechanization of the industry on the growing side continues to increase. Picking and tying, however, are still done by hand.

PHORMIUM.—Large areas in various parts of New Zealand are covered with phormium, or New Zealand flax, the fibre of which is largely used for ropemaking, etc. An area of 39,051 acres was returned as under phormium on occupied holdings in 1952-53.

LINEN FLAX.—As a result of the exigencies of war, an entirely new industry was inaugurated in New Zealand—the growing of linen flax. Linen fibre is extensively used commercially, but assumed special importance as an essential war commodity. As the United Kingdom had previously imported 90 per cent of her requirements, mainly from Russia, attention was of necessity paid to the possibility of obtaining supplies elsewhere. Investigations into the growing of linen flax in New Zealand were first instituted in 1936, and much valuable research work was carried out by the Department of Scientific and Industrial Research in collaboration with the Department of Agriculture. These investigations demonstrated the possibility of the establishment of the industry in New Zealand, and led to an officer being sent abroad to study the industry at first hand and to purchase the necessary processing machinery for an experimental factory.

Though 403 acres of linen flax were grown in 1939–40, the industry was not established on a commercial basis till the 1940–41 season, when 13,118 acres were grown under contract to the Crown in response to a request received from the United Kingdom Ministry of Supply. This was increased to 21,067 acres by 1942–43, but subsequently declined until with the cessation of hostilities it fell to approximately 4,500 acres. There has since been a further decline, the area recorded in 1952–53 being only 1,525 acres.

SEED CERTIFICATION.—Commencing with the certification of seed potatoes and seed wheat in 1928, the Department of Agriculture has extended its activities in this direction to include such crops as perennial ryegrass, Italian ryegrass, short-rotation (H₂) ryegrass, cocksfoot, timothy, brown-top, *Phalaris tuberosa*, white clover, cow-grass (broad red clover), Montgomery red clover, subterranean clover, oats, barley, ryecorn, sweet blue lupins, onions, chou moellier, rape, kale, turnip, and swede seeds.

The scheme was introduced to provide the buyer of certified seeds with a guarantee that the produce of such seeds would be true to type and free from seed-borne diseases.

In the early stages of the scheme, certification, which has relationship only to the type of the plant and not to the purity or germination of the seed itself, was based on the identification of superior strains of seeds appearing in certain districts as a result of natural selection. At the same time, however, a programme of scientific plant selection was instituted by the Department of Scientific and Industrial Research in an endeavour to improve still further the naturally occurring strains. The results of this selection work now form the basis of seed certification as applied to most of the above-mentioned types.

The task of raising seed of artificially selected strains involves in the first instance the testing of a large number of individual plants of the particular species. Only the plants giving the best performance under trial are resown for further multiplication, possibly half a dozen out of thousands.

These plants are then seeded together to produce small quantities of seed of the selected strain. This seed, in turn, is multiplied until sufficient is available to sow areas on a field scale. At this stage the Department of Agriculture takes over the material available and multiplies the seed under contract with selected farmers.

The resultant seed is distributed by the Department, sales being made through the mercantile firms to those farmers most favourably situated to make the best use of it for further seed production. From this stage the selected strain is multiplied under the Department's certification scheme through the stages of certified "Pedigree" seed and certified "Mother" seed to certified "Standard" or "Permanent Pasture" seed. These seeds are sold through the usual commercial channels.

While in the lower classes of some varieties of certified seed at the present time there may be included also seed from natural strains, the proportion of the latter is being steadily reduced. The purpose of the various classes is to obtain the greatest bulk of good-quality seed in the "Standard" or "Permanent Pasture" class in the shortest time. Thus, while the higher grades are important to seed producers, farmers sowing for pasture purposes only need not concern themselves with other than certified "Standard" or "Permanent Pasture" seed.

20 C—LIVESTOCK

SUMMARY OF LIVESTOCK.—Detailed statistics of livestock are contained in the Report on the Farm Production Statistics issued annually by the Census and Statistics Department. This publication also contains the summary tables appearing in parliamentary paper H-23, which is devoted exclusively to a statistical analysis of the annual sheep returns. It should be noted that, unless otherwise stated, the statistics quoted in the tables in this subsection relate to holdings of 1 acre and over situated outside borough boundaries.

Commencing with the year 1952–53, the annual collection of farming statistics has been conducted on a sample basis whereby only one farmer in seven provides the basic figures. This sample is a fixed one, on account of the large number of items to be surveyed, and the fact that the larger farming units must on this account all be included. The statistics in respect of 1953 or 1952–53 are quoted out to the nearest whole number, but this practice has been followed purely for the sake of convenience. In actual fact the final digits in each case are meaningless in respect of these years. The response on the part of those farmers included in the sample survey has been excellent.

The numbers of livestock of various kinds at each of the last five annual enumerations were as shown in the following table. Horses, dairy cows in milk, total cattle, sows, and total pigs are as at 31 January; sheep shorn, lambs shorn, and lambs tailed are for the season ending in the year stated, while breeding ewes and total sheep are as at 30 April for the years 1949–50 and 30 June for the years 1951–53.

—	1949	1950	1951	1952	1953
Horses	196,055	194,877	183,972	173,922	158,065
Dairy cows in milk	1,746,753	1,850,089	1,898,197	1,905,534	1,962,492
Cattle (including dairy cows)	4,722,836	4,954,906	5,060,024	5,164,689	5,445,963
Sheep shorn during season	30,277,551	31,533,232	32,251,297	33,901,691	34,794,489
Lambs shorn during season	5,624,895	6,339,709	7,017,989	6,705,190	7,111,900
Lambs tailed during season	19,805,885	21,169,576	21,238,461	21,814,024	22,162,270
Sheep (including lambs)*	32,844,918 ¹	33,856,558 ¹	34,786,386 ¹	35,384,270 ¹	36,192,935 ¹
Breeding ewes*	21,499,703 ¹	21,881,467 ¹	22,638,491 ¹	22,963,340 ¹	23,781,376 ¹
Pigs (total)	544,841	555,245	564,335	565,723	627,830
Breeding sows	68,305	74,509	75,053	77,747	81,162
* Includes those in boroughs and on holdings under 1 acre.					
¹ At 30 April.					
² At 30 June.					

In the following tables the figures of livestock are given for each land district for the latest available year.

Land District	Horses	Dairy Cows in Milk	Total Cattle	Breeding Sows	Total Pigs
North Auckland	23,850	447,692	938,952	19,878	146,798
South Auckland	31,192	726,999	1,526,502	32,536	241,756
Gisborne	11,422	44,319	399,431	2,144	16,873
Hawke's Bay	12,287	51,819	464,472	1,903	15,023
Taranaki	10,032	247,781	466,397	6,894	61,376
Wellington	23,566	238,621	953,626	9,669	76,483
Marlborough	2,708	14,253	60,426	807	6,196
Nelson	2,672	32,688	84,043	2,107	19,687
Westland	1,387	13,222	53,456	921	8,102
Canterbury	16,829	62,600	215,925	2,682	23,114
Otago	11,813	34,578	123,595	800	5,845
Southland	10,307	47,920	159,138	821	6,577
Totals	158,065	1,962,492	5,445,963	81,162	627,830
Land District	Sheep Shorn	Lambs Shorn	Lambs Tailed	Breeding Ewes	Total Sheep
North Auckland	1,426,565	444,985	846,959	884,740	1,371,362
South Auckland	3,824,497	1,241,261	2,591,983	2,750,678	4,603,893
Gisborne	2,080,980	753,091	949,978	1,225,664	2,109,615
Hawke's Bay	4,533,042	1,312,402	2,648,292	2,961,955	4,598,473
Taranaki	1,067,031	389,884	673,828	692,291	1,070,591
Wellington	7,129,032	2,388,198	4,296,644	4,582,351	7,253,390
Marlborough	1,003,245	93,308	485,033	617,744	1,060,769
Nelson	412,443	38,915	207,259	254,385	429,044
Westland	83,131	8,834	75,555	63,334	79,965
Canterbury	5,534,442	252,598	3,776,678	4,141,035	5,994,933
Otago	3,919,860	104,223	2,426,525	2,650,809	4,235,841
Southland	3,780,221	84,201	3,183,536	2,956,390	3,995,059
Totals	34,794,489	7,111,900	22,162,270	23,781,376	36,192,935
* Includes sheep in boroughs.					

The next table shows the proportion of the various kinds of livestock in each land district. The figures reveal that the dairying and beef-production industries are both largely concentrated in the North Island, which has 87 per cent of the total cattle and 89 per cent of the dairy stock. Localizing the dairying industry still further, it is found that over half the milking cows of New Zealand are in the area comprised of the land districts of North and South Auckland. Taranaki and Wellington are practically equally important as regards the number of cows in milk; between them they account for nearly one-quarter of the total.

Taking the number of beef cows two years old and over as a guide to beef production, Wellington Land District easily leads with over one-fifth of the New Zealand total. South Auckland is second, followed by Hawke's Bay, Gisborne, and North Auckland in that order. These five districts together depasture 82 per cent of cows reserved for beef production.

Pig farming is largely an adjunct of dairy farming, and consequently the distribution of swine closely follows that of dairy cattle. Taranaki, however, which is mainly a cheese-producing district, has 12.6 per cent of New Zealand's milking cows, but only 9.8 per cent of the pigs, while Nelson, Westland, and Canterbury, which together have only 5.5 per cent of the cows in milk, have 8.1 per cent of the pig population.

Sheep farming is more evenly distributed between the North and South Islands. The land districts of major importance are Wellington, Canterbury, Hawke's Bay, Otago, South Auckland, and Southland in that order, these six districts accounting for 83 per cent of the total sheep population in 1953.

The location of each class of livestock is now given, the figures showing the percentage distribution in each land district.

Land District	Dairy Cows, Two Years Old and Over (in Milk)	Cows and Heifers, Two Years Old and Over (Other Than for Dairying)	Total Cattle	Breeding Sows	Total Pigs	Total Horses	Sheep Shorn ¹	Lambs Shorn ¹	Lambs Tailed ²
North Auckland	22.81	10.66	17.25	23.49	23.38	15.09	4.10	6.26	3.82
South Auckland	37.04	18.25	28.03	40.09	38.51	19.73	10.99	17.45	11.70
Gisborne	2.26	14.55	7.33	2.64	2.69	7.23	5.98	10.59	4.29
Hawke's Bay	2.64	17.06	8.53	2.35	2.39	7.77	13.03	18.45	11.95
Taranaki	12.63	4.30	8.56	8.49	9.77	6.35	3.07	5.48	3.04
Wellington	12.16	22.00	17.52	11.91	12.18	14.91	20.49	33.59	19.38
Marlborough	0.73	1.59	1.11	0.99	0.99	1.71	2.88	1.31	2.19
Nelson	1.67	1.19	1.54	2.60	3.14	1.69	1.19	0.55	0.94
Westland	0.67	1.15	0.98	1.14	1.29	0.88	0.24	0.12	0.34
Canterbury	3.19	3.88	3.96	3.30	3.68	10.65	15.91	3.55	17.04
Otago	1.76	2.23	2.27	0.99	0.93	7.47	11.27	1.47	10.95
Southland	2.44	3.14	2.92	1.01	1.05	6.52	10.85	1.18	14.36
* Sheep shorn, lambs shorn, and lambs tailed during 1952-53, remaining particulars for stock as at 31 January 1953.									

SHEEP.—Although the first permanent establishment of sheep took place in 1834, when a small flock of Merinos was brought from Sydney and landed on Mana Island, it was not till the early 1840's that flocks were established in the Canterbury and Wellington districts. Other districts followed soon after. These original flocks were Merinos, but experience showed that this breed was not suited to the wetter parts of the North Island. In many districts in the South Island, however, they became firmly established in the high country, where the Merino or Merino crossed are the only sheep capable of standing up to the extremes of climate. In the following two decades a number of English breeds were imported, notably Romneys, Southdowns, Lincolns, and English and Border Leicesters. The Merino ewe furnished the foundation of the crossed stock which made Canterbury muton and lamb famous on the British meat markets. Towards the end of the last century systematic inbreeding of Merino-longwool half-bred sheep resulted in the evolution of the now world-known Corriedale breed. The Romney Marsh has, however, long been the most popular sheep, particularly in the North Island.

The number of breeding ewes reached a new record level of 21,881,467 in 1950, while the total number of sheep, 33,856,558, was only 118,054 below the record figure of 1945. As from 1951 the date of collection was changed from 30 April to 30 June. The change in the date of collection made it difficult to assess the relative increase in sheep numbers compared with 1950, but the actual increase between 30 April 1950 and 30 June 1951 has now been estimated at over three and a quarter millions. This substantial increase has been followed by over half a million increase in sheep numbers between 30 June 1951 and 1952, bringing the total number of sheep up to a record level of 35,384,270, while further record totals were again established in 1953 with 37,881,376 breeding ewes and 36,192,935 total sheep.

The special farming type classification made in 1949–50 as part of the World Census of Agriculture shows the following break up by regional areas where 50 per cent or more of the farm enterprise was given over to sheep. Of all the farm types this classification shows the most equal balance between the North and South Islands, though the diversity of sheep farming with other agricultural pursuits is very evident in the South Island.

NUMBER OF SHEEP FARMS, BY REGIONAL AREAS, 1949–50

Regional Area	Principally Sheep	With Beef Stock	With Dry Dairy Stock	Sheep				With Mixed Farming	Other Sheep Holdings	Total Sheep Farms		
				With Dairy Stock	With Cropping	With Poultry	With Horticulture			No.	Area	
Northland	442	282	12	34					14	785	699,643	
South Auckland	542	130	23	50		1			10	1	756	464,330
Waikato and Hauraki	648	97	70	42		1			13	5	877	399,398
Lowlands	85	15	18	5			1		2	2	128	117,496
Cape Colville	166	59	34	13					11	1	284	265,071
Western Uplands	980	297	48	57	1				11	1	1,395	1,442,304
Taranaki	265	27	79	30	1	4			31	2	439	234,952
East Cape	582	272	11	36	6	5	1		27	5	945	1,751,473
Hawke's Bay	1,619	1,571	18	87	22	1	1		49	33	1,987	2,098,902
Rangitikei	1,528	78	22	114	30	1	1		42	4	1,820	1,616,668
Manawatu	1,149	39	47	119	17		2		35	5	1,413	709,578
Castlepoint	256	8		10							274	396,046
Wairarapa	530	22	3	39	4				33	5	636	628,843
Featherston	293	14	11	23					11	2	354	515,160
Nelson	404	34	2	57	8		7		13	4	529	446,117
Marlborough	568	18	4	23	73				30	23	740	1,785,507
Westland	65	64	1	2					4	1	137	197,646
North Canterbury	405	4	10	93					64	20	596	1,323,947
Foothills	231	2	2	16	38	1			33	15	338	1,045,148
Canterbury Plains	222	3	5	17	129	2			32	16	426	268,438
Christchurch	31	1	1	2					3		38	22,422
Banks Peninsula	216	18	2	18	3	2	1		9	2	271	178,298
MacKenzie	230	4	5	23					14	10	287	1,476,685
South Canterbury	1,242	4	3	127	559	21	1		212	56	2,322	3,350,892
Otago	696	8	4	80	36	4	3		73	34	938	1,640,281
Central Otago	565	1	1	15	40	3	4		23	10	661	3,789,679
Southern	2,853	70	8	309	160	3	1		352	152	3,908	3,368,001
Remainder	74										74	177,370
Totals, Number	16,887	1,731	428	1,339	1,245	49	29		1,151	409	23,268	
Acreage (000)	24,621	2,981	151	493	741	20	24		1,080	298	30,410	

In the following table sheep distribution is shown by Islands, the figures including sheep in boroughs.

Year	North Island	South Island	Total Sheep at 30 April
1940	17,179,875	13,883,000	31,062,875
1941	17,971,470	13,780,190	31,751,660
1944	19,010,618	14,189,680	33,200,298
1945	19,215,240	14,759,372	33,974,612
1947	18,245,561	14,436,238	32,681,799
* As at 30 June.			

Year	North Island	South Island	Total Sheep at 30 April
1948	18,495,543	13,987,595	32,483,138
1949	18,600,068	14,244,850	32,844,918
1950	19,131,660	14,724,898	33,856,558
1951	19,912,858	14,873,528	34,786,386*
1952	20,161,285	15,222,985	35,384,270*
1953	20,407,324	15,785,611	36,192,935*

* As at 30 June.

The following table shows the number of rams, wethers, breeding ewes, dry ewes, and lambs in New Zealand for the last five years.

Year	Rams	Wethers	Breeding Ewes	Dry Ewes	Lambs	Totals
<i>Stud Sheep (Entered in Flock Book)</i>						
1949	12,576		323,704	6,966	239,279	582,625
1950	12,129		319,077	6,249	245,269	582,824
1951	11,606		323,471	5,774	239,660	580,511
1952	12,828		331,180	5,937	248,485	598,430
1953	±	±	±	±	±	±
<i>Sheep of a Distinctive Breed but not Entered in Flock Book</i>						
1949	559,009	953,746	5,818,439	211,161	2,134,263	9,676,618
1950	568,697	982,843	6,324,524	232,664	2,414,339	10,523,067
1951	588,243	910,977	4,793,956	162,912	1,893,598	8,349,686
1952	587,545	2,393,105	17,804,304	356,554	6,522,338	27,663,846
1953	±	±	±	±	±	±
<i>Crossbred Sheep</i>						
1949	11,337	1,521,667	15,357,560	417,115	5,277,996	22,585,675
1950	13,856	1,493,416	15,237,866	404,507	5,601,022	22,750,667
1951	21,577	1,768,415	17,521,064	302,170	6,242,963	25,856,189
1952	31,713	586,051	4,827,856	88,243	1,588,131	7,121,994
1953	±	±	±	±	±	±
<i>Totals</i>						
1949	582,922	2,475,413	21,499,703	635,242	7,651,638	32,844,918
1950	594,682	2,476,259	21,881,467	643,420	8,260,730	33,856,558
1951	621,426	2,679,392	22,638,491	470,856	8,376,221	34,786,386
1952	632,086	2,979,156	22,963,340	450,734	8,358,934	35,384,270
1953	639,550	2,660,768	23,781,376	444,624	8,666,617	36,192,935

* As at 30 June.
 † Ram, ewe, and wether hoggets.
 ‡ Not available.

Because of changes in the 1952 questionnaire, figures for non-stud sheep are not comparable with those for the preceding years. Sheep previously classified as crossbreds now appear under the distinctive breed where a particular strain is predominant. The figures for Romney in the table on the next page illustrate very markedly the effect of this change in method of classification. The statistics of breeds of sheep are now (from 1952 onwards) being collected at five-yearly intervals.

The average size of the flocks was 983 in 1949, 1,008 in 1950, 1,010 in 1951, 1,008 in 1952, and 1,022 in 1953. The subdivision of the large estates of the pioneering days and the practice of running small flocks on dairy farms, the latter a typical feature of recent activities, has resulted in a decrease in the average size of flocks as compared with earlier days. Since the beginning of the present century, however, there has been little variation. An upward tendency was evident between 1939 and 1945, owing no doubt to the decrease in dairy stock during the war period. Decreases in 1947 and 1948 have been followed by slight rises, probably as a result of increases in wool prices. A classification according to size shows the following position.

Size of Flocks	1949	1950	1951	1952	1953
1 to 100				3,826	3,009
101 to 200	7,133	6,753	6,547	6,906	7,088
201 to 500	7,181	7,094	7,104	7,088	6,883
501 to 1,000	8,200	8,231	8,729	8,635	8,703
1,001 to 2,500	8,429	8,980	9,556	9,982	10,463
2,501 to 5,000	1,869	1,942	1,938	1,957	1,989
5,001 to 7,500	387	384	377	353	349
7,501 to 10,000	119	107	107	95	93
10,001 to 20,000	94	86	87	89	100
20,001 and over	11	12	7	8	8
Total flocks	33,423	33,589	34,452	35,113	35,423

The numbers of different classes comprising the flocks in June 1952 are given below.

Breed of Sheep	Stud Sheep Entered in Flock Book	Sheep of a Distinctive Breed Not Entered in Flock Book	Totals
Romney		326,843	22,052,115
Merino		26,049	769,336
Southdown		153,942	557,467
Corriedale		46,961	1,458,531
Half-breed		9,151	2,696,044
Border Leicester		14,372	59,356
English Leicester		4,582	11,679
Ryeland		4,149	16,829
Chesviot		5,073	18,898
Lincoln		3,616	10,494
Dorset Horn		1,672	6,893
Other breeds		2,020	6,204
Totals	598,430	27,663,846	28,262,276
Crossbreds			7,121,994
Grand totals	598,430	27,663,846	35,384,270

WOOL PRODUCTION.—Although fifth in order in actual size of flocks in 1950–51, in point of production of wool New Zealand was the third largest in the world, and ranked second in the list of principal exporting countries. New Zealand specializes in the production and export of crossbred wool, and in this field her only serious competitors are Argentina and Uruguay. With the exception of a small annual consumption by local mills the whole of the

wool produced in New Zealand is exported. The quantity on a greasy basis used by local mills prior to the war was from 7,000,000 lb. to 8,000,000 lb. per annum, but this was greatly increased during the war period. By 1946–47 the wartime demand had eased and the quantity had fallen from 17,200,000 lb. in 1943–44 to 13,400,000 lb. It remained about this level until 1951–52, when it fell to 11,000,000 lb.

The following are the figures of estimated production in each of the last eleven seasons, computed on a greasy basis.

Year Ended 30 June	Estimated Production
	lb.
1943	340,000,000
1944	330,000,000
1945	372,000,000
1946	365,000,000
1947	367,000,000
1948	362,000,000
1949	367,000,000
1950	390,000,000
1951	390,000,000
1952	407,000,000
1953	418,000,000

An analysis of wool sold at New Zealand auctions, according to quality groups, is given in the following table.

Quality Group	1948–49		1949–50		1950–51		1951–52		1952–53	
	Bales	Percentage of Total Sales	Bales	Percentage of Total Sales	Bales	Percentage of Total Sales	Bales	Percentage of Total Sales	Bales	Percentage of Total Sales
60–64s and up	18,652	2.2	15,436	1.7	14,791	1.7	14,129	1.5	13,007	1.4
60s	8,968	1.0	7,818	0.9	9,604	1.1	13,805	1.5	10,253	1.1
58–60s, 58s, and 56–58s	101,644	11.9	105,418	11.8	103,403	11.8	93,266	10.1	91,361	9.9
50–56s and 56s	100,157	11.7	105,845	11.9	112,513	12.8	118,778	12.8	102,987	11.2
52s	34,401	8.7	77,161	8.7	73,311	8.4	60,317	6.5	60,305	6.6
50s	93,722	10.9	97,453	11.0	101,383	11.6	116,044	12.5	117,529	12.8
48–50s	134,553	15.7	140,541	15.8	140,569	16.0	134,337	14.5	145,755	15.9
46–50s and 48s	217,318	25.4	219,056	24.6	208,364	23.8	253,986	27.4	271,066	29.5
46–48s	97,851	11.4	105,773	11.9	98,153	11.2	103,296	11.1	90,805	9.9
46s and lower	9,774	1.1	15,049	1.7	14,206	1.6	19,810	2.1	15,528	1.7
Totals	857,040	100.0	889,550	100.0	876,297	100.0	927,768	100.0	918,596	100.0

The Wool Industry Act 1944 provided for the establishment of the New Zealand Wool Board, replacing the New Zealand Wool Council established under the Wool Industry Promotion Act 1936. The Board's principal concern is the promotion of the wool industry, particularly in regard to markets, scientific and industrial research in relation to wool and sheep with a view to improvement in quality and quantity, and the discovery of new or improved methods of utilization. Specific matters in relation to which the Board may be called upon to exercise certain functions are the production, handling, pooling, appraising, storage, distribution, marketing, and disposal of wool. The Board is empowered to act in combination or association with other bodies established outside New Zealand functioning on similar lines. It is also represented on the Wool Commission established by the Wool Commission Act 1951. For the purpose of providing funds to enable the Board to carry out its functions the Act provides for a levy on all wool produced in New Zealand, the rate of the levy to be fixed each season by the Board (at present 4s. 6d. a bale). This levy is collected by the New Zealand Wool Commission on behalf of the Wool Board.

CATTLE.—The total number of cattle recorded at the enumeration of 1953 was 5,445,963, as against 5,164,689 in 1952. The figures for 1952 and 1953, grouped according to the classification in use, were as follows:

Dairy stock—	1952	1953
Breeding bulls, two years old and over	60,678	63,271
Cows and heifers, two years old and over—		
Cows in milk during season	1,905,534	1,962,492
Heifers not yet in milk	70,578	72,320
Cows not in milk during season, but intended to be used again for dairying	38,230	43,159
Heifers—		
One and under two years old	388,165	358,524
Under one year old	380,975	428,314
Bulls and bull calves under two years old to be used for breeding purposes	38,460	39,581
Totals, dairy stock	2,882,630	2,967,661
Beef stock—		
Breeding bulls, two years old and over	24,714	26,621
Cows and heifers, two years old and over	849,371	961,629
Heifers—		
One and under two years old	223,186	227,442
Under one year old	234,044	257,565
Steers, two years old and over	465,245	495,825
Steers and bulls—		
One and under two years old	230,023	233,093
Under one year old	255,486	276,127
Totals, beef stock	2,282,069	2,478,302
Totals, cattle	5,164,689	5,445,963

For some time prior to 1933 the development of the beef breeds was somewhat checked, partly owing to the advance taking place in dairying operations and partly through the difficulties of competing with other countries in the British market, but the successful inauguration of chilled beef shipments to the London market led to a marked increase in beef animals. Although the wartime arrangement for the purchase by the United Kingdom Government of New Zealand meat available for export did not include chilled beef, the schedule of prices was so framed that the producers of animals of the type required for the chilled beef trade would not suffer on account of the temporary cessation of the industry. A condition of the long-term contract for the purchase of meat by the United Kingdom Government was that the chilled beef trade was to be progressively resumed as and when the shipping position permitted. Trial shipments were made in 1952 and 1953.

Up to 1935 the breeding of dairy cattle made great progress in New Zealand. From then on, up to 1944, with the exception of 1941, when a slight increase was recorded, a series of successive decreases was experienced in the number of cows in milk. Decreases, although slight, were again recorded in 1946 and 1947, but in each of the succeeding six years substantial increases took place, the total for 1953 (1,962,492) being 56,958 above the previous highest figure of 1,905,534 recorded in 1952.

The following table shows the number of holdings with dairy cows in milk, grouped according to size of herd in milk, for the years 1947 to 1949, 1951, and 1952. Similar information for 1950 and 1953 is not available. The figures relate to holdings of 1 acre and over situated outside borough boundaries.

Year	Number of Cows in Milk										Total Holdings With Cows in Milk	
	1–9	10–19	20–29	30–39	40–49	50–59	60–69	70–79	80–89	90–99		100 and Over
1947	32,065	5,135	5,499	5,947	4,876	3,522	2,762	1,946	1,314	814	1,891	65,771
1948	32,383	4,786	5,298	5,810	5,133	3,745	2,899	2,016	1,413	878	2,035	66,406
1949	31,821	4,752	5,097	5,827	5,194	3,863	3,100	2,047	1,486	943	2,064	66,188
1951	32,198	4,558	4,836	5,745	5,381	4,422	3,543	2,375	1,679	1,086	2,442	68,265
1952	32,223	4,366	4,536	5,527	5,245	4,438	3,665	2,512	1,726	1,105	2,532	67,875

Analysing those farm holdings where 50 per cent or more of the enterprise is devoted to dairying, the North Island predominates with 84 per cent of dairy farms, as shown in the following table of dairy farming by regional areas.

NUMBER OF DAIRY FARMS, BY REGIONAL AREAS, 1949-50

Regional Area	Principally Dairying	Dairying									Dry Dairy Cows and Heifers Only	Other Dairy Holdings	Total Dairy Farms		
		With Sheep	With Cropping	With Beef Stock	With Poultry	With Pigs	With Bees	With Horticulture	With Mixed Farming	No.			Area		
														Acres	
Northland	6,815	154		23	58	14	2		37		55	148	7	7,313	1,485,711
South Auckland	3,165	112	1		4	33	5		19		26	131	8	3,504	395,319
Waikato and Hauraki Plains	6,544	193			4	7	20		7		39	118	4	6,936	967,162
Cape Colville	787	27			1	4	1		2		1	26		849	192,907
Central Plateau	2,065	65	1			18	11	1	23		40	39	3	2,266	439,416
Western Uplands	907	184			2		5		5		30	13	3	1,149	284,159
Taranaki	3,713	77			1	17	15		1		23	123	4	3,974	514,993
East Cape	915	65	13			44	3	2	8		38	18	2	1,108	150,572
Hawke's Bay	594	78	1		1	9	6	1	11		21	8	9	739	87,371
Rangitikei	1,024	187	8		1	5	3				17	13	1	1,263	181,504
Manawatu	2,716	178	6			11	10	1	9		19	36	4	2,990	335,070
Castlepoint	15	7				1								23	5,403
Wairarapa	556	72				5	7	1			11	6	3	661	117,093
Featherston	422	41				5	5				3	12		489	131,792
Nelson	817	99	4		4	5	7		30		35	11	2	1,014	277,251
Marlborough	324	30	5			1	3				5	6	6	393	75,858
Westland	345	19			9	1	6	3			17	8		408	177,268
North Canterbury	32	3	1			1					1	39		2,625	
Foothills	50	12	6			6	6	1			4	1	83	13,908	
Canterbury Plains	526	19	99		12	12	1		1		51	11	3	727	75,155
Christchurch	222	5	19		1	3	3		3		4	6	271	20,697	
Banks Peninsula	145	36	1			1	2				1	3	193	36,125	
Mackenzie	8	2	1			1								12	1,612
South Canterbury	635	75	57		2	39	14	4	2		39	8	10	885	72,107
Otago	439	58	10		1	12	1		2		17	9	9	558	70,880
Central Otago	68	8	1			1			1		4	1		83	11,777
Southern	1,295	423	2		5	11	11	1	2		70	11	5	1,836	295,814
Remainder	3													3	138
Totals, Number	35,148	2,230	228		59	309	165	18	168		588	764	93	93,970	
Areaage (000)	5,190	805	24		28	21	23	1	12		224	74	18	6,420	

A similar analysis for beef-cattle farms by regional areas shows the following distribution with the North Island contributing 65 per cent of the New Zealand total for this type of farming.

NUMBER OF BEEF-CATTLE FARMS, BY REGIONAL AREAS, 1949-50

Regional Area	Principally Beef-cattle	Beef-cattle				Other Beef-cattle Holdings	Total Beef-cattle Farms	
		With Sheep	With Dairying	With Arable Cropping	With Mixed Farming		No.	Area
Northland	245	67	3		4	11	330	184,825
South Auckland	69	10	2		1	4	86	22,133
Waikato and Hauraki Lowlands	71	6			1	4	82	20,956
Cape Colville	24	3	1		2	3	33	20,249
Central Plateau	30	11	1			2	44	61,313
Western Uplands	44	13	2		1	60	27,844	
Taranaki	16	1			1	4	22	2,287
East Cape	15	9	1				25	28,458
Hawke's Bay	28	7					35	20,483
Rangitikei	22	4			1	1	29	11,599
Manawatu	36	3			1	1	41	11,181
Castlepoint	1						1	4
Wairarapa	5						5	2,352
Featherston	8						8	3,692
Nelson	63	8				4	75	39,130
Marlborough	8	1					9	462,507
Westland	108	44	3		4	1	159	398,477
North Canterbury	3						3	212,855
Foothills	1						1	4
Canterbury Plains	14						14	3,676
Christchurch	9						1	10,124
Banks Peninsula	7	2					9	4,569
Mackenzie	1						1	4
South Canterbury	29	1			1		31	5,946
Otago	27	4	1		1		34	16,663
Central Otago	2	1					3	106,677
Southland	59	20	2		2	1	84	31,688
Remainder	7						7	539
Totals, Number	952	215	17		2	18	37	1,241
Areaage	1,389,252	286,158	6,153		374	12,802	10,565	1,705,304

* Not available separately. Areas are included in the total.

Most of the leading breeds of the cattle of Great Britain are represented in New Zealand by herds bred on sound lines. Provision was made in the 1950 Census of Agriculture for the collection of breeds of cattle, the first collection of this nature since 1928. The following table shows details by breeds as at 31 January 1950, separate figures being given for dairy and beef stock.

Breed	Number
<i>Dairy Stock</i>	
Jersey	2,429,189
Friesian (Holstein)	169,611
Milking Shorthorn	164,640

Breed	Number
Ayrshire	93,608
Red Poll	4,503
Others	5,050
Total dairy stock	2,866,601
<i>Beef Stock</i>	
Polled Angus	1,393,681
Hereford	456,923
Shorthorn	147,448
Jersey	36,740
Milking Shorthorn	25,696
Red Poll	13,066
Friesian (Holstein)	12,032
Others	2,719
Total beef stock	2,088,205

While a detailed comparison between the two collections is not possible, as the method of collection has altered considerably between the years—e.g., the latest figures provide for a division between stock used for dairying as against stock for beef purposes, whereas this provision did not exist in 1928—a comparison between breed totals, though still not exact, shows some interesting trends, as will be seen from the following table. Details for 1918, the first year in which a similar collection was undertaken, are also included.

Breed of Cattle	1918	1928	1950
Jersey	361,480*	1,275,738*	2,465,929
Polled Angus	147,283	355,387	1,396,486
Hereford	294,455	430,451	458,200
Milking Shorthorn	Included with Shorthorn	447,414	190,336
Friesian (Holstein)	202,075	241,692	181,643
Shorthorn	1,665,514†	417,493	147,448
Ayrshire	51,135	53,097	95,602
Red Poll		7,740	17,569
Guernsey	Included with Jersey	Included with Jersey	1,024
Devon	32	2,237	395
Galloway			274
Other and unspecified	116,653	7,450	
Totals, cattle	2,838,627	3,238,699	4,954,906

* Jersey and other Channel Island breeds.

† Milking Shorthorn and Shorthorn combined.

The most significant feature of the change in breeds, apart from the continued steady gain by the Jersey strain, is the substantial increase recorded by Polled Angus. The rate of increase shown by this breed over the past twenty years rivals the rate of progress made by the Jerseys in earlier years.

Although an exact comparison between Milking Shorthorn and Shorthorn breeds is not possible, it is very evident that both these breeds have lost considerable favour since 1928.

DAIRY PRODUCE.—The Dairy Industry Act 1908 (a consolidation of previous legislation), with its amendments, may in general terms be described as an Act to regulate the production, collection, treatment, preparation, and manufacture, under proper sanitary conditions, of dairy produce—i.e., milk, cream, butter, cheese, and any other product of milk or cream—intended for sale for human consumption within New Zealand or for export.

Inspectors are empowered to inspect premises used for the production or manufacture of dairy produce. Any defects affecting the cleanliness and sanitation of the premises, or of the plant, machinery, and apparatus used in connection therewith, may be ordered to be remedied to the satisfaction of the inspector, and until so remedied their use in the production of dairy produce may be forbidden. Inspectors are authorized to condemn any dairy produce considered unfit for human consumption, and the sale of unwholesome milk or other dairy produce is prohibited.

Milk or cream purchased for the manufacture of dairy produce and paid for according to the percentage of butterfat contained therein must have this percentage determined by the Babcock or the Gerber test. Dairy factories are required by regulations under the Act to pay different prices for different grades of milk or cream supplied for the manufacture of dairy produce. Factories are also required to furnish to suppliers a certified annual statement of output, and provision is made for an independent investigation by the Audit Department where a supplier is dissatisfied with the statement received.

Dairy produce intended for export must be sound and wholesome in all respects, and must comply with the requirements of the Act as to inspection, grading, and marking. The export of butter containing more than 16 per cent of water or less than 80 per cent of butterfat is prohibited. The export of cheese of which the water-free substance consists of less than 50 per cent of fats wholly derived from milk is also illegal.

Wide powers are conferred to make regulations prescribing matters of detail with regard to the production, manufacture, sale, and export of dairy produce. In particular, regulations may be made for the registration of dairies, the licensing of persons carrying on the manufacture of dairy produce, the registration of brands to be used on dairy produce, and for the inspection, grading, packing, stamping, and labeling of dairy produce.

The Co-operative Dairy Companies Act 1949, which replaced similar legislation contained in the Dairy Industry Act 1908 and its amendments, provides for the registration of co-operative dairy companies. No dairy company may include in its registered name the word "co-operative" unless it is certified to be registered as a co-operative dairy company under the Act. A company registered under the Act is authorized to accept or to compel the surrender of shares issued in certain cases, subject to the rights of shareholders being safeguarded. This refers mainly to shareholders who have ceased to supply milk, cream, or butterfat to the company for a specified period. The Act provides for the establishment of the Co-operative Dairy Companies Tribunal of three members, the functions of which are to fix the fair value of shares surrendered in cases where the company and the shareholder are unable to agree as to the value of the surrendered shares and to fix the terms of repayment by the company.

Production of Dairy Produce.—During 1952-53, and for the third consecutive season, butterfat production in New Zealand established a new record, being estimated at 539 million pounds, an increase of 7 per cent, or 34 million pounds over the 1951-52 total of 505 million pounds. Of this amount, 473 million pounds was supplied to dairy factories for use in manufacture, 33 million pounds more than the previous record of 440 million pounds established in 1951-52. Butterfat production per cow during the season, 274 lb., surpassed all previous years.

Very favourable weather, increases in the number of dairy cows, and the extended use of improved methods, all contributed to the very high figures of butterfat production during the last four seasons.

Variations over the last eleven years in total butterfat production, including estimates for butterfat in milk and cream sold for human consumption, use and lost on farms, etc., are shown hereunder. The table also gives the number of dairy cows recorded as in milk, on farms of 1 acre or more, outside boundary boundaries, and estimates of the average butterfat production per cow "at the post", this estimate being based, in the latest year, on data concerning tested herds.

Year	Total Butterfat	Dairy Cows in Milk	Average Production Per Cow	Year	Total Butterfat	Dairy Cows in Milk	Average Production Per Cow
	Million lb.	(000)	lb.		Million lb.	(000)	lb.

1942-43	407	1,715	234	1948-49	457	1,747	259
1943-44	387	1,648	232	1949-50	471	1,850	252
1944-45	432	1,679	254	1950-51	497	1,898	260
1945-46	373	1,662	222	1951-52	505	1,906	263
1946-47	408	1,658	243	1952-53	539*	1,962	274†
1947-48	418	1,714	241				

* Provisional.

† Including residual fat in skim milk from home separation.

—	1948-49	1949-50	1950-51	1951-52	1952-53*
Butterfat used in—	Million	lb.	lb.	lb.	lb.
Creamery buttermaking	299.5	304.7	328.3	346.8	363.8

* Provisional.

† Including residual fat in skim milk from home separation.

	1948-49	1949-50	1950-51	1951-52	1952-53*
Cheesemaking	88.6	93.9	96.6	84.6	96.0
Other milk products	7.9	8.3	7.8	9.0	12.7
Total used in manufacture	396.0	406.9	432.7	440.4	472.5
Human consumption—					
Milk and cream as such	36.5	39.8	40.5	41.5	42.9
Milk and cream in ice-cream	0.6	0.6	0.5	0.4	0.4
Farm butter	6.6	5.7	4.9	4.1	3.7
Fed to stock†	13.0	13.0	13.7	13.5	13.7
Wastage	4.6	4.7	5.0	5.1	5.3
Total production	457.3	470.7	497.3	505.0	538.5

* Provisional.
† Including residual fat in skim milk from home separation.

Changes in the usage of butterfat in dairy factories over recent years are indicated by the percentages in the following table.

	Percentage of Total Butterfat				
	1948-49	1949-50	1950-51	1951-52	1952-53
Butterfat received into factories from farms and used for—					
Buttermaking	75.6	74.9	75.9	78.8	77.0
Cheesemaking	22.4	23.1	22.3	19.2	20.3
Condensed and dried milk, etc.	2.0	2.0	1.8	2.0	2.7
Totals	100.0	100.0	100.0	100.0	100.0

Compared with the 1951-52 season, production of creamy butter by dairy factories rose by 5 per cent and cheese production by 12 per cent; output of preserved whole milk and skim milk were, respectively, 24 per cent and 22 per cent greater, but the quantities of buttermilk powder and casein made decreased, buttermilk powder by 24 per cent and casein by 25 per cent. It will be noted, however, that the level of production of these latter commodities is still higher than in the 1949-50 season, and, as regards casein, the 1950-51 season.

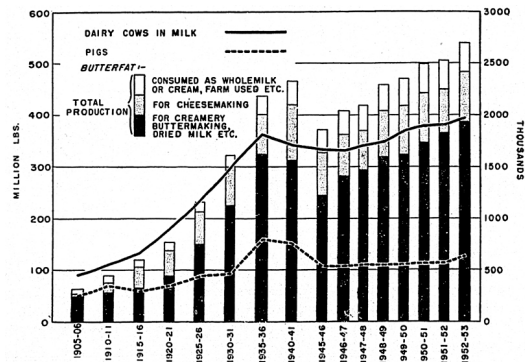
Production by dairy factories during the last five seasons is set out in the following table.

	1948-49	1949-50	1950-51	1951-52	1952-53
Creamery butter	165.0	165.8	178.6	188.7	197.2
Whey butter	2.8	3.0	3.1	2.8	3.2
Cheese	99.4	105.4	108.5	95.7	107.6
Condensed and powdered whole milk	23.0	23.9	23.5	22.9	28.3
Skim-milk powder	16.6	20.2	26.7	31.8	38.7
Buttermilk powder	1.7	4.0	7.4	7.1	5.4
Casein	5.4	5.3	6.6	9.5	7.1

The actual increases in the volume of production are shown in the next table, in which the above details are converted to an index based on the 1947-48 season (=100).

	1948-49	1949-50	1950-51	1951-52	1952-53
Butterfat	109	115	119	121	129
Creamery butter	109	111	119	126	132
Whey butter	112	120	124	112	128
Cheese	115	122	126	111	125
Condensed and powdered whole milk	117	121	119	116	143
Skim-milk powder	136	166	219	261	316
Buttermilk powder	131	308	569	546	415
Casein	120	118	147	211	158

The following diagram shows the progress of the dairy industry during the last forty-seven years, and also illustrates the disparity between the growth in the number of dairy cows and that of pigs.



New Zealand's paramount position in the supply of butter, cheese, and milk powder to the United Kingdom market is illustrated in the following table.

IMPORTS INTO UNITED KINGDOM, BY COUNTRY OF EXPORT

Country (of Export)	Butter		Cheese		Milk Powder (Unsweetened)							
	1951	1952	1951	1952	1951	1952						
Cwt. (000)	Per Cent	Cwt. (000)	Per Cent	Cwt. (000)	Per Cent	Cwt. (000)	Per Cent					
New Zealand	3,065	49.7	2,970	57.3	1,963	50.5	1,699	62.1	510	79.6	561	66.0

Country (of Export)	Butter		Cheese		Milk Powder (Unsweetened)							
	1951	1952	1951	1952	1951	1952						
Australia	668	10.8	278	5.4	293	7.5	298	10.9	58	9.0	176	20.7
Other Commonwealth countries and Republic of Ireland	3	0.1	11	0.2	8	0.2	26	1.0	45	7.0	43	5.1
Canada					235	6.1						
Denmark	2,024	32.8	1,739	33.5	245	6.3	311	11.4				
Netherlands	360	5.9	115	2.2	233	6.0	239	8.7			24	2.8
France					30	0.8	21	0.8				
Switzerland					43	1.1	39	1.4				
Italy					44	1.1	36	1.2				
Other countries	44	0.7	72	1.4	791	20.4	68	2.5	28	4.4	46	5.4
Totals	6,164	100.0	5,185	100.0	3,885	100.0	2,737	100.0	641	100.0	850	100.0

PIGS.—For some years prior to 1937 a quickening of interest in pig production as an adjunct to dairy farming raised pig numbers considerably above those noted previously, culminating in the record figure of 808,463 in 1936. Subsequent years showed substantial decreases in the number of pigs, although over the last five years the figures have shown a rising trend. The 1953 figure of 627,830 shows a decrease of 180,633, or 22 per cent, as compared with the peak figure of 1936.

As at 31 January	Pigs Under Six Months Old	Pigs Six Months and Under One Year Old	Boars One Year Old and Over	Sows One Year Old and Over	Total Pigs
1949	333,056	130,649	12,831	68,305	544,841
1950	352,708	113,843	14,185	74,509	555,245
1951	349,509	125,883	13,890	75,053	564,335
1952	351,921	122,139	13,916	77,747	565,723
1953	392,872	138,994	14,802	81,162	627,830

Particulars as to pig breeds were collected in 1950, the first time a collection of this nature had been carried out since 1928. The following table shows details by breeds as at 31 January 1950, total figures where comparable also being given for 1918 and 1928.

Breed	1918		1928		1950				
	Total	Total	Under 6 Months Old	6 Months and Under 1 Year	Boars 1 Year Old and Over	Sows 1 Year Old and Over	Total		
Berkshire	66,610	78,758	17,474	6,084	3,523	9,607	36,688		
Large White	7,216	8,555	8,972	2,614	1,326	3,305	16,217		
Tamworth			15,468	5,799	2,224	6,965	30,456		
Large Black			7,587	2,268	924	3,843	14,622		
Duroc Jersey	4,400	15,556	1,224	486	284	511	2,505		
Wessex Saddleback			20			2	22		
Crossbreds	175,038	476,835	301,963	96,592	5,904	50,276	454,735		
Total pigs	253,264	579,704	352,708	113,843	14,185	74,509	555,245		

The popularity of the Berkshire breed has declined heavily. In 1924 this breed reached its highest level at 101,179, since when other breeds, notably Tamworth, have come into prominence, while both the Large White and Large Black have also made steady gains. The proportion of crossbred pigs remained relatively constant at 82 per cent between 1928 and 1950.

LIVESTOCK SLAUGHTERING.—The following table shows the numbers of the different classes of livestock slaughtered for food during each of the last eleven September years. The figures are for total killings—i.e., they include export works, abattoirs, rural slaughterhouses, and an allowance for killings on farms.

LIVESTOCK SLAUGHTERINGS (000 CARCASSES)

Year Ended 30 September	Sheep	Lambs	Cattle	Calves	Pigs
1943	4,488	11,525	760	1,065	767
1944	4,846	11,096	632	968	727
1945	4,790	11,159	671	973	675
1946	5,410	12,322	694	1,037	656
1947	5,037	11,808	719	1,085	634
1948	4,640	12,373	712	1,174	638
1949	4,807	12,375	662	1,204	675
1950	5,010	12,789	693	1,275	676
1951	4,416	11,694	692	1,311	707
1952	5,925	12,415	743	1,311	685
1953	5,632	12,300	652	1,236	740

Sheep and Lambs.—As the United Kingdom takes the great bulk of the mutton and lamb exported from New Zealand it is interesting to note the extent to which New Zealand contributes to this market in comparison with importations from other countries.

In the calendar year 1938 New Zealand supplied 63 per cent of the total frozen mutton imported into the United Kingdom and 50 per cent of the total imports of frozen lamb. Australia, the next largest supplier in 1938, contributed 23 per cent of mutton imports and 29 per cent of lamb imports, while Argentina, which ranked third on the list, supplied 6 per cent and 15 per cent respectively.

That New Zealand has more than maintained her position in this connection in the post-war years is evidenced by the figures for 1952, when New Zealand supplied 80 per cent of both frozen mutton and lamb imported into the United Kingdom, whereas the proportions supplied by Australia were 4 per cent for mutton and 6 per cent for lamb. Imports from Argentina in 1952 amounted to 15 per cent for mutton and 12 per cent for lamb.

Cattle.—New Zealand's frozen beef competes under difficulties with chilled and fresh beef from countries nearer the United Kingdom, with the consequence that the New Zealand share of the United Kingdom's beef imports has been relatively small. However, prospects for expansion brightened considerably when several trial shipments of New Zealand chilled beef were despatched to England in 1933. The experiments proved very successful, and were followed by larger shipments, the quantity shipped in 1938 being 350,606 cwt. During the first nine months of 1939, 311,112 cwt. were exported, but with the outbreak of war the necessity for conserving shipping space resulted in the temporary cessation of the chilled beef industry. The first post-war consignment in the form of a small experimental shipment was made in 1952 and further trial shipments were made in 1953.

The development of the export trade in chilled beef, however, was not made at the expense of frozen beef. Quantities of frozen beef shipped to the United Kingdom in 1937, 1938, and 1939, were 531,160, 544,764, and 672,310 cwt. respectively, as compared with 484,628 cwt. in 1936.

During the war period a considerably greater proportion of beef exports was shipped in boneless form in order to conserve shipping space, and this practice was continued into the immediate postwar years. Also much greater quantities were exported in canned form. Consequently, it is not possible to give an exact comparison with pre-war years. In 1952 New Zealand supplied approximately 15 per cent of the United Kingdom's total imports of beef, as compared with only 7 per cent in 1938.

Pigs.—As in the case of other frozen meats, New Zealand pork in normal times is shipped almost exclusively to the United Kingdom.

In international trade, exports of bacon far exceed those of other pig products, with the United Kingdom normally absorbing most of the exports of other countries. Although New Zealand supplies a substantial proportion of the imports of frozen and chilled pork into the United Kingdom, her contributions of bacon are negligible. It should be mentioned, however, that the major portion of the carcasses imported from New Zealand are "baconers," the curing process being carried out in the United Kingdom.

Calves.—Prior to the outbreak of the recent war, veal production was displaying evidence of rapid development, and exports of veal had increased appreciably, mainly as a result of the expansion of the "bobby-calf" trade.

The term "bobby calf" is defined by regulations as being "all calves that have a live weight of less than 100 lb."

Meat Production and Disposal.—Meat production for the season ended September 1952 was a record, being nearly 25,000 tons in excess of the previous record total of 577,400 tons reached in 1949-50, and 72,000 tons higher than in 1950-51 when output was affected by the protracted industrial dispute. Carcass meat is shown at bone-in weight.

	Total Production	Disposals			
		Exports to United Kingdom	Other Exports and Overseas Ships' Stores	For Canning/Local Consumption	
	Tons	Per Cent	Tons	Tons	Tons

—	Total Production	Disposals				
		Exports to United Kingdom	Other Exports and Overseas Ships' Stores	For Canning	Local Consumption	
Beef	173,200	29.9	44,030	15,566	16,654	96,950
Veal	18,900	3.3	2,325	2,200	9,236	5,139
Mutton	153,700	26.6	86,426	7,299	1,601	58,374
Lamb	194,100	33.5	182,554	2,183		9,363
Pig meat—						
Pork	12,600		1,858	2,949		7,793
Bacon and ham	24,400	6.7	5,643	3,519		15,238
Chopper	1,900				343	1,557
Total carcase meat	578,800	100.0	322,836	33,716	27,834	194,414
Edible offal	23,400		11,666	482	2,657	8,595
Grand totals	602,200		334,502	34,198	30,491	203,009

Exports to the United Kingdom are as supplied by the New Zealand Meat Producers Board, and relate only to meat shipped on contract to the United Kingdom Ministry of Food. It should be noted that the figure for beef includes approximately 26,600 tons subsequently diverted to the United States of America and 1,500 tons to Hong Kong. Canned meat, equivalent to about 2,100 tons of carcase meat, was also shipped under contract to the United Kingdom Ministry of Food. In addition, nearly 12,700 tons of canned and pickled meats, and 5,000 tons of frozen meat, mainly beef, went to the United Kingdom under open general licence.

The next table shows total meat production and exports to the United Kingdom under Ministry of Food contract for the three September years 1949-50 to 1951-52.

—	Total Production			Exports to United Kingdom (Under United Kingdom Ministry of Food Contract)		
	1949-50	1950-51	1951-52	1949-50	1950-51	1951-52
	Tons (000)			Tons (000)		
Beef	164.2	159.1	173.2	55.8	42.0	44.0
Veal	21.2	18.1	18.9	15.5	10.4	2.3
Mutton	131.2	109.3	153.7	72.6	51.0	86.4
Lamb	200.6	183.1	194.1	192.2	172.6	182.6
Pig meat—						
Pork	11.4	11.4	12.6	3.1	3.1	1.9
Bacon and ham	25.3	25.4	24.4	7.2	7.6	5.6
Chopper	2.2	2.2	1.9			
Total carcase meat	556.1	508.6	578.8	346.5	286.7	322.8
Edible offal	21.3	21.4	23.4	12.7	10.3	11.7
Total production	577.4	530.0	602.2			
Canned meat (carcase weight equivalent)				7.8	2.1	2.1
Total exports under United Kingdom Ministry of Food contract				366.7	299.1	336.6
Percentage of total production				63.5	56.4	55.9

A decline in exports to the United Kingdom in 1948-49 in the face of increased production was attributable to higher local consumption, caused by the abolition of rationing at the end of the 1947-48 season, and in a lesser degree by the greater needs of a growing population. Local consumption in 1951-52 was 203,000 tons, compared with 205,400 tons in 1950-51, 194,900 tons in 1949-50, and 190,200 tons in 1948-49.

A summary of meat production and local consumption is set out below, together with quarterly estimates. The 1953 figures reveal a decline in production and consumption of approximately 10 per cent.

—	Total Production (Estimated) (Bone-in Weights)					
	Beef	Veal	Mutton	Lamb	Pig Meats	Offal
Year ended 30 September—	Tons (000)					
1950	164.2	21.2	131.2	200.6	38.9	21.3
1951	159.1	18.1	109.3	183.1	39.0	21.4
1952	173.2	18.9	153.7	194.1	38.9	23.4
1953	161.3	20.7	143.3	187.5	41.0	20.0
Quarter ended—						
1950—December	27.2	2.4	14.7	27.5	11.2	3.7
1951—March	34.8	1.0	39.0	90.2	14.3	7.1
June	59.9	1.4	42.5	63.4	11.4	7.0
September	37.2	13.3	13.1	2.0	2.1	3.6
December	25.1	2.9	16.4	23.6	10.8	3.8
1952—March	40.9	1.1	78.7	118.7	15.7	9.4
June	72.2	1.8	43.4	49.7	10.8	6.2
September	35.0	13.1	15.2	2.1	1.6	4.0
December	25.0	3.1	18.7	18.4	11.5	2.9
1953—March	39.0	1.2	69.5	105.3	16.3	7.9
June	68.1	1.7	40.0	61.5	9.7	6.0
September	29.2	14.7	15.1	2.3	3.5	3.2

—	Consumption in New Zealand (Bone-in Weights)						
	Beef	Veal	Mutton	Lamb	Pig Meats	Offal	Total
Year ended 30 September—	Tons (000)						
1950	92.0	4.9	54.3	7.7	27.7	8.3	194.9
1951	99.5	4.9	55.4	9.6	27.5	8.5	205.4
1952	97.2	5.1	58.6	9.3	24.3	8.5	203.0
1953	93.0	4.6	60.0	8.8	20.3	8.2	194.7
Quarter ended—							
1950—December	23.6	1.1	14.2	2.7	7.3	2.0	50.9
1951—March	23.3	1.2	13.4	2.5	7.1	2.0	49.5
June	26.1	1.4	14.0	2.4	7.0	2.3	53.2
September	26.5	1.2	13.8	2.0	6.1	2.2	51.8
December	24.4	1.2	14.4	3.0	6.6	1.8	51.4
1952—March	23.5	1.3	14.1	2.5	6.5	2.1	50.0
June	28.3	1.5	14.7	2.2	5.9	2.4	52.0
September	24.0	1.1	15.4	1.6	5.3	2.2	49.6
December	21.6	1.0	15.2	2.6	5.4	1.9	47.7
1953—March	22.9	1.2	13.8	2.2	5.5	1.8	47.3
June	24.0	1.3	15.5	2.1	4.9	2.3	50.1
September	24.5	1.1	15.5	1.9	4.5	2.2	49.6

NOTE.—In some cases consumption may exceed production for the period, the balance being drawn from stocks in store.

The following table shows the imports of meat into the United Kingdom for the year ended 31 December 1952, by country of export.

Country	Beef		Mutton and Lamb		Pig Meat		Other Meat		Total, All Meat and Meat Products	
	(000/Cwt.)	Per Cent	(000/Cwt.)	Per Cent	(000/Cwt.)	Per Cent	(000/Cwt.)	Per Cent	(000/Cwt.)	Per Cent
New Zealand	667	14.7	5,864	78.9	116	1.8			6,927	32.5
Australia	1,082	23.9	392	5.3	114	1.8	116	4.1	2,622	12.3
Canada									502	2.4
Other British countries and Republic of Ireland	905	20.0	1		247	3.8	548	19.3	1,446	6.8
British whale fisheries									52	0.2
Denmark					3,786	58.0	148	5.2	4,045	19.0
Argentina	1,417	31.3	937	12.6	42	0.6			2,483	11.6
Netherlands					915	14.0	489	17.3	1,523	7.2
Poland					845	13.0			878	4.1
France					39	0.6	144	5.1	212	1.0
Uruguay	111	2.4	10	0.1			2	0.1	157	0.7
Germany					90	1.4			124	0.6
Belgium					17	0.3	34	1.2	113	0.5
Brazil	7	0.2							34	0.2
Sweden									26	0.1
Chile			6	0.1					11	0.1
Paraguay	2	0.1							5	
United States of America									4	
Other countries									155	0.7
Not classified	334	7.4	225	3.0	313	4.7	1,349	47.7	*	*
Totals	4,525	100.0	7,435	100.0	6,524	100.0	2,830	100.0	21,314	100.0

* Classified in totals above.

The importance of the part New Zealand plays in the supply of meat to the United Kingdom is shown in the above table, New Zealand being the leading supplier of total meat products; this country's share, 32 per cent, is 13 per cent greater than that of Denmark, the next largest supplier.

HORSES.—The following table gives the number of horses in each class shown, excluding horses in boroughs, figures for which are not available.

—	1949	1950	1951	1952	1953
Draught and three-quarter draught	74,004	71,593	65,901	57,434	
Spring cart (including half-draught)	31,380	26,244	22,541	20,300	
Hacks and light working horses	73,709	76,829	75,318	74,530	58,065
Thoroughbred and other horses	16,962	20,211	20,212	21,658	
Total horses	196,055	194,877	183,972	173,922	58,065

Since 1911, when the peak number of 404,284 was recorded, there has been, with two minor interruptions, a continuous decline in the number of horses in New Zealand. The two interruptions referred to occurred in the years 1916-18 and 1936-38, wherein slight increases were recorded.

During the ten years up to 1952 the decrease amounted to 62,533, or 26 per cent. The greater part of this decrease has occurred in draught and three-quarter draught animals, the numbers of which fell from 118,054 in 1942 to 57,434 in 1952, while those described as spring cart (including half-draught) horses fell from 44,586 to 20,300. This decline in the numbers of horses of the heavy type has been accompanied by a marked increase in the use of mechanical traction for farm work, the number of agricultural tractors on farms in 1952 being 45,734, as compared with 13,967 in 1942. In 1953 the total number of horses further declined to 158,065, while agricultural tractors increased to 52,495. This subject is discussed in more detail in Section 20A.

Hacks and light working horses have decreased to a much lesser extent over the period; in fact, mainly as the result of an increase of over 3,000 in 1950, the number for that year was the highest since 1938, but numbers have since receded slightly. The class described as "thoroughbred and other" fell away considerably during the war and early post-war years, but increases were recorded in the years 1948-52.

POULTRY.—A census of poultry has been an ancillary inquiry associated with the census of population from 1861 onwards, with the exception of the censuses of 1896 and 1901. Until 1936, however, poultry kept by Maori households had not been brought within the ambit of the census. The extension of the inquiry to Maori households in 1936 furnished probably the first statistics in existence on this subject. The total poultry flocks of the Maoris, however, are small (91,976 in 1945 and 107,361 in 1936), and their omission from earlier censuses does not appear to have been of significance.

The following table shows the numbers recorded at the last six censuses. All references to fowls, ducks, etc., are intended to cover both male and female birds.

Census	Number of Households Keeping Fowls, Ducks, Geese, or Turkeys	Total Number of Fowls, Ducks, Geese, or Turkeys	Fowls	Ducks	Geese	Turkeys
October 1916		134,234	3,465,638	3,141,354	220,808	46,955
April 1921		145,993	3,991,009	3,491,567	379,988	46,234
April 1926		158,856	3,781,145	3,308,384	352,030	43,779
March 1936*		159,098	3,911,715	3,415,793	351,608	61,418
March 1936†		166,354	4,019,076	3,488,516	377,791	66,667
September 1945*		152,229	4,378,390	4,006,780	298,399	37,661
September 1945†		159,333	4,470,366	4,070,683	319,918	41,903
April 1951†		180,723	4,199,590	3,829,481	260,659	58,474

* Excluding Maori flocks.

† Including Maori flocks.

The comparability of the foregoing figures is affected by two important considerations, the first being that the 1951 figures include only birds aged four months or over, while the 1945 figures cover birds of all ages. The second factor is that the censuses of 1916 and 1945 were taken in the spring, whereas the other censuses were taken in the autumn. Poultry numbers are subject to considerable seasonal fluctuations, the main breeding season being in the early spring, when there would be considerable numbers of young chickens included in the figures, whereas in the autumn the culling of old birds would have been more or less completed.

Number and Size of Flocks.—Although poultry farming is regarded as a definite branch of the farming industry, a classification as to sizes of flocks indicates that poultry keeping is generally carried on merely as a sideline. The 180,723 households recorded as keeping poultry at the 1951 census show an increase of 13.4 per cent as compared with the 1945 census. Taking only fowls into consideration, it is found that 89.5 per cent of households keeping poultry had less than twenty-five birds, the corresponding percentage in 1945 being 83.8. In 15,535 cases in 1951 the number of birds ranged from 25 to 99, making a total of 174,704 cases, or 98.2 per cent, in which the flocks consisted of less than 100 birds.

Of 366 flocks in which the number of birds was 1,000 or over, 284 ranged from 1,000 to 1,999, 62 from 2,000 to 2,999, 11 from 3,000 to 3,999, and 9 exceeded 4,000. In 1945 the number of flocks of 1,000 or over amounted to 490, but here, as elsewhere, the remarks concerning seasonal fluctuations in poultry numbers made earlier should be taken into consideration. The larger flocks at the time of the 1945 census would be unduly swollen by the inclusion of young chickens held for sale, this being the source from which the small or "backyard" poultry keeper mainly obtains his flock. The average flock in rural districts was 26.3, in urban districts 14.7, and in New Zealand as a whole 21.5 birds.

Poultry Control.—The Poultry Act 1924 provides for the regulating of poultry keeping and of the sale and export of poultry and eggs. Provision is made for the appointment of inspectors, on whom certain powers of entry are conferred for purposes of inspection of poultry or of eggs intended for sale or export. Poultry are required to be kept under sanitary conditions, and cruelty to poultry is made an offence. Every owner of poultry is appointed to notify an inspector of any outbreak of disease among his flock and to comply with the inspector's directions. It is an offence to sell diseased poultry. The Governor-General in Council is empowered to declare diseases, to require reports of export, and to appoint grading stations.

The Egg Marketing Authority Regulations 1953 transferred to the Egg Marketing Authority the power to regulate and control the marketing and distribution of eggs and egg pulp in substantially the same manner and extent as those powers were exercisable by the Minister and the Department of Agriculture under the Egg Marketing Regulations 1951.

The Egg Marketing Authority consists of seven members—four producer members of the New Zealand Poultry Board and three Government representatives.

The principal function of the Authority is to regulate and control the marketing and distribution of eggs and egg products in New Zealand and elsewhere in accordance with the regulations to ensure as far as possible sufficient supplies of eggs and their equitable distribution in the general interests of producers and consumers.

In order to provide finance for the organization and development of the poultry industry, the Poultry-runs Registration Act was passed in 1933. The Act makes compulsory the annual registration of every poultry run, which is defined as land used for the keeping of not less than twenty-five head of poultry (hens and ducks not less than six months old) and the production of eggs for sale. The fee payable annually for registration is 2s. 6d. if the flock is in excess of twenty-four but does not exceed one hundred head. For each additional hundred (or part thereof) an additional 2s. 6d. is payable. A Board is constituted for the administration of the Act. Figures supplied by the Board show that the number of poultry runs registered at 31 May 1953 was 6,970, covering an aggregate of 1,304,598 birds.

BEES.—The rich dairy pastures of New Zealand and other localities where cattle raising is carried on extensively are particularly favourable for apiculture and the production of high-grade honey for the local and export markets; thus the North Island, which contains 87 per cent of the cattle population, accounts for 70 per cent of the total apiculture. The export trade is, of course, small when compared with the main primary industries, but is capable of considerable development. It is estimated that the total production of honey during a favourable season in New Zealand if 75 lb. surplus per hive, amounting to 6,400 tons, based on the present registered apiary holdings. The estimated production in commercial and domestic apiaries for the year ended 31 March 1953 was 3,900 tons of honey and 136,500 lb. of commercial beeswax, a decrease of 100 tons of honey but an increase of some 19,500 lb. of beeswax on the previous year's production.

Registrations under the Apiaries Act (referred to later) show that as at 30 June 1953 there were 6,568 beekeepers with a total of 12,530 apiaries and 191,553 established hives. Following is a summary of these registrations showing beekeepers in groups according to the number of hives kept.

Group	1-5 Hives	6-20 Hives	21-50 Hives	51 Hives and Over
Beekeepers	4,260	1,382	374	552
Apiaries	4,342	1,652	678	5,858
Hives established	9,440	14,737	12,496	154,880

Under the Apiaries Act 1927 stringent regulations have been enacted in order to control foul brood, bee moths, and other diseases of bees. Beekeepers are required to register all apiaries of one or more hives, and it is an offence to keep bees in an unregistered apiary. Only frame hives may be used, box hives being prohibited.

The introduction into New Zealand of bees, and used appliances for the keeping of bees and the harvesting of their products, is prohibited save with the prior consent of the Minister of Agriculture. The consent of the Minister in regard to used appliances is restricted to such appliances as are necessary to serve as containers for bees so introduced.

Exports of honey for the last six years are given below.

Year	Quantity	Value
	lb.	£
1947	80,506	3,053
1948	107,096	7,313
1949	157,262	7,769
1950	852,072	41,958
1951	751,280	34,994
1952	885,598	43,412

The Honey Marketing Authority Regulations 1953 established the Honey Marketing Authority which undertakes the task of packing and marketing honey within New Zealand and overseas, hitherto carried out by the Marketing Division of the Department of Agriculture under the supervision of the Honey Marketing Committee.

There was previously in existence a Honey Export Control Board, set up in 1924, the powers of which were assumed by the Minister of Marketing in 1938. The same year regulations were brought down to provide for a levy at the rate of 1/6d. per pound on honey sold by beekeepers within New Zealand, subject to certain small exceptions. At a later date regulations under the Marketing Act set up the Honey Marketing Committee which at first was advisory, but some years ago was given virtually executive powers. The latest regulations, made under the Primary Products Marketing Act 1953, now amalgamate all the foregoing provisions and provide for a Honey Marketing Authority, which will assume control of honey for export and will either directly or through agents operate the blending plant at Auckland. The levy referred to above will be continued at the rate of 1d. per pound, and the fund so obtained will be administered by the Honey Marketing Authority for the benefit of the industry in general. The greater part of the funds hitherto obtained from this levy have been applied to subsidizing the return received by those whose honey has been exported through the Honey Marketing Committee.

The Authority comprises four members elected by beekeepers, one appointed by the National Beekeepers' Association (Incorporated), and one member appointed by the Government to watch the interests of the consumer.

Chapter 21. SECTION 21—FORESTRY

Table of Contents

NATIONAL FOREST POLICY.—The forest policy is essentially one of conservation and expansion—conservation of the indigenous forests for the threefold purpose of erosion control, maintenance of amenity values, and timber production; and expansion of the exotic forests to enable the conservation of the indigenous forests and provide an additional timber supply. Only by the multiple use of both upland and lowland forests for the preservation of their timber productivity and for the maintenance of their protective, scenic, and recreational values can the objective of the national forest policy be achieved. This objective is that the public should enjoy to the full those economic and social benefits which forests alone can confer.

The salient features of the timber-supply situation are—

1. Most of the remaining virgin forests are overmature, with new growth being offset by decay and natural deaths.
2. The problem of regenerating podocarp forests (which supply most of New Zealand's general purpose timbers) has not yet been solved, nor is it likely that a practical solution will be found for any very large area of such forests. Even if the difficulties of natural regeneration could be overcome, or, alternatively, if podocarp forests could be grown artificially in plantation form, they would take 200 to 300 years to mature.
3. Current timber demands are depleting the virgin indigenous forests at such a rate that without other provision being made New Zealand would soon be faced with a permanent timber famine and would have to rely entirely on imports.
4. The establishment of exotic forests to supplement and in a large measure to replace the indigenous forests is thus essential to the future well-being of the country.
5. Fortunately, New Zealand is endowed with a climate which is particularly favourable to the development of several valuable exotic softwood species. Moreover, there are large areas of land which are marginal for agriculture (or in the past have been so considered) but which are entirely suitable for tree growth.
6. So favourable are the climatic and soil factors in New Zealand that exotic softwood forests can be grown more quickly and hence more cheaply than in most other countries of the world. As a result New Zealand can look forward confidently to the development of its export trade in timber, woodpulp, newsprint, and other forest products.

FOREST RESOURCES: General.—Most of New Zealand was acquired by the Crown during the early days of settlement, apart from limited areas purchased privately from the Maoris; in fact, mostly in the North Island, remained as Maori land. Subsequently the Crown granted freehold and leasehold titles of much tussock grassland country and of accessible forest areas, but it kept in reserve substantial forest areas for future settlement and for timber supplies. Because of the mountainous nature of the country—three-quarters of the land surface lies above the 650-foot contour—and the limited farmable areas therefore available, the lowland and montane country was quickly cleared of forest under this system of settlement. The main mountain areas, however, remained forested, and before they could be deforested to any extent the shortage of indigenous timber reserves became apparent and the dangers of erosion began to show on the steep country that had been cleared. Many of these areas were, therefore, made State forests quite early—this term being used for the first time under the Forests Act of 1874—and upon the formation of the State Forest Service in 1919 were administered by the Forest Service either as permanent or provisional State forests. The latter category included land that might be suitable for farming and which could be taken over for this purpose once the crop of timber had been cut from it. Substantial areas of indigenous forest were from time to time also declared national parks and reserves. By and large the general pattern of distribution of agricultural land and forest became defined about the end of the nineteenth century.

Most of the indigenous State forests, and forests on Maori land and national parks as well, now fall into the category of protection forest; that is, they are required for water and soil conservation, irrespective of what exploitable forest produce they contain.

The dwindling of indigenous timber supplies and the need to replace them was realized early. To provide for the future the State, therefore, commenced small planting operations with exotics at the end of the last century. These continued until the early 1920's, when sufficient experience of the most suitable species and planting sites had been accumulated to allow of a large expansion of planting both by the State and by afforestation companies. In the peak year of this activity some

50,000 acres were planted. This extensive settlement continued until about the year 1935 when it subsided, and planting of exotic species on a smaller scale was continued by the Forest Service. Latterly this planting has been distributed in the old units as well as in a number of smaller units located in areas of wood scarcity.

The total forest covering at 31 March 1951 is as shown in the following table. It should be noted, however, that the area of forested land has been estimated from very meagre and incomplete information. Reasonably accurate figures are available for indigenous State forests, but the total areas of indigenous forest in other tenures are not yet known. An accurate total forest area figure will not be available until the National Forest Survey referred to on page 503 is completed.

Type of Land	Area, in Acres	Percentage of Forest Area	Percentage of Total Land Area
Forested land—			
State forests*	8,454,000	53.2	12.6
Scenic reserves	900,000	5.7	1.4

* The total area of legal State forest is 9,481,000 acres, of which 342,000 acres represents the unplanted area in exotic State forests and 685,000 acres the area of open country (tussock grasslands, etc.) in indigenous State forests. The net forested area only (8,454,000 acres) has been used in the table. The corresponding figure of legal State forest at 31 March 1953 was 9,550,000 acres.

Type of Land	Area, in Acres	Percentage of Forest Area	Percentage of Total Land Area
National parks	1,400,000	8.8	2.1
Maori land	1,500,000	9.4	2.3
Unoccupied Crown land	1,000,000	6.3	1.5
Freehold	2,636,000	16.6	4.0
Totals	15,890,000	100.0	23.9
Land devoted to agriculture	19,244,000		29.0
Other land	31,257,000		47.1
Total land area (including water surfaces)	66,391,000		100.0
* The total area of legal State forest is 9,481,000 acres, of which 342,000 acres represents the unplanted area in exotic State forests and 685,000 acres the area of open country (tussock grasslands, etc.) in indigenous State forests. The net forested area only (8,454,000 acres) has been used in the table. The corresponding figure of legal State forest at 31 March 1953 was 9,550,000 acres.			

Composition of Forests.—Indigenous forests of New Zealand may be divided very broadly into two formations, mixed temperate evergreen forest and southern beech forest: the former, in regard to its trees, being a mixed community of many species of broad-leaved trees and conifers, and the latter a pure community of one or more of the species of southern beech (*Nothofagus*). Between these two formations there are many intermediates, the one grading into the other.

In general distribution, mixed temperate evergreen forest originally occupied mainly the coastal, lowland, and montane belts, except in the drier areas, where it was replaced by southern beech forest; and the southern beech forest, besides occupying these drier areas, extended above the montane belt to the timber line. The upper altitudinal line of the mixed forest became gradually lower in proceeding from north to south.

Most of the mixed forest has been cut over for timber and cleared for farming purposes, whereas the southern beech forest, because of the difficult topography and the poor soils on which it most frequently grows, is largely intact. The following description gives in more detail the distribution and the present state of the main communities.

Kauri forest once occupied much of the area northwards from a line joining Port Waikato to Tararanga, but, except for limited reservations and small pockets, this forest has disappeared. The main secondary species of trees are taraire and tawa. Mixed podocarp forest, the principal podocarp being rimu, and important secondary ones, totara, matai, and miro, extended throughout all three main islands. The heaviest commercial stands were on flat or near-flat sites; in steeper country timber trees thinned out and secondary species became more plentiful. The remaining forest of this type consists of pockets, which will be worked for a few decades to come; some large areas on steep country, such as the Urewera, which can be classed mainly as protection forest; and fairly extensive forests in the centre of the North Island and on the West Coast of the South Island which contain most of the remaining indigenous softwood supplies. The main species of broad-leaved trees in these forests are kamahi, tawa, and rata. Kahikatea forest occupied low-lying swamy river silt, but this has almost disappeared to make way for farming.

Bay forests, whose dominant trees are smaller podocarps of the silver-pine group, occupy limited areas mainly in the central North Island and on the West Coast of the South Island. They have largely been cut over, at least once, for posts and sleepers.

Although most southern beech forests can be classified as protection forests, there remain substantial areas in lowland and montane regions that have been cut over and are regenerating, or that still have not been cut over and will be reserved for sustained yield management. Where southern beech forest is present in the lowland and montane belts of the North Island and northern Marlborough-Nelson the species are hard beech (*Nothofagus truncata*), and black beech (*N. solandri*). In the upper belts, red beech (*N. flexilis*) is abundant, but is usually accompanied by the silver beech (*N. menziesii*), which is the main tree at the highest altitudes, unless conditions are somewhat dry, when mountain beech (*N. cliffortioides*) replaces it. On the eastern slopes of the Southern Alps there was once a belt of mountain beech forest, but this has been burnt except for pockets. On the western side of the Alps beech forest is absent from the Taramakau River southwards for one hundred miles. In western Otago and Southland silver beech is the main forest tree, with fair areas of mountain beech and small pockets of red beech. At the lower elevations silver beech is extensively milled and much of the forest has disappeared.

Important forest trees at high elevations, and not already mentioned, are kaikawaka (*Libocedrus bidwillii*) and thin-barked totara (*Podocarpus hallii*).

In the undisturbed indigenous vegetation there were limited transition areas between tussock grassland and forest proper that carried manuka (*Leptospermum scoparium* and *L. ericoides*), and sometimes bracken fern (*Pteridium esculentum*). With the destruction of much tussock grassland and forest, these belts have extended, and manuka has even occupied extensive areas of destroyed forest remote from any original manuka stands. These stands are important because they are often a stage in succession back to mature forest. Manuka is also a very useful fuel.

Much land now classified as forest consists of a second growth of broad-leaved shrubs and trees which have come in after milling operations on an abandoned farm land.

Exotic plantations of over ten acres in extent now total 890,000 acres, besides which there is a large total acreage of smaller farm woodlots and shelter belts. These areas of exotic species already provide a significant proportion of the country's timber requirements, and before many more decades have passed must supply most of it. In some poorly forested districts shelter belts now provide a large part of the local timber supply.

By far the greatest area of the larger exotic plantations are in the central North Island, notably Taranaki. They were established with radiata pine (*Pinus radiata*) between the years 1925-1935. Other plantations are scattered throughout the country, although there are still some timberless districts without any sizable areas, notably Taranaki, Poverty Bay and the East Coast, and South Canterbury.

National Forest Survey.—For many years past it has been obvious that there is a need for a comprehensive and scientific stocktaking of the indigenous forest resources, both to provide up-to-date information on the extent of remaining timber supplies, and to assess the salient ecological facts upon which New Zealand's long-term indigenous forest policy must be based. The National Forest Survey is a major fact-finding project designed to meet this need. The project was commenced in 1946 and is scheduled for completion, at least as far as its main objects are concerned, by 1956. The survey is based on a combination of aerial photographs and statistically controlled ground sampling. It will result in qualitative descriptions of the many forest associations present in New Zealand forest-type maps, showing their distribution and detailed estimates of the timber volume present. The National Forest Survey is administered by the Forest Research Institute, Rotorua.

FOREST AUTHORITY.—The administration of State Forests and afforestation activities in New Zealand was for many years under the control of the Lands and Survey Department, but in 1919 a separate Forestry Department was formed. This was reorganized in 1920 as a Department of State, called the State Forest Service, and was given statutory recognition and administrative authority by the Forests Act 1921-22, which provided for a Minister of the Crown to hold office as Commissioner of State Forests. The Forests Act 1949 consolidated the previous legislation and changed the title of the Minister to Minister of Forests, and that of the State Forest Service to the New Zealand Forest Service.

The Act provides for the appointment of a Minister of Forests, a Director of Forestry, and Conservators of Forests and other officers. The Minister may delegate such of his powers as he thinks fit. The Act prescribes that the Forest Service shall have under the direction of the Minister exclusive responsibility in carrying out all matters of forest policy affecting State forest land and shall have exclusive control and management of—

- a. All State forest land, whether for the production of timber or other forest produce, or for the protection of the land with a view to water conservation or soil stabilization, or for ensuring the balanced use of the land, or for scientific purposes, or for recreational or amenity purposes not prejudicial to forestry;
- b. The establishment, culture, and maintenance of forests on State forest land, and the harvesting, utilization, transport, sale, or other disposal of forest produce from State forest land;
- c. The granting of licences, leases, permits, and other rights and authorities under the Act;
- d. The enforcement of the conditions of licences, leases, permits, and other rights and authorities granted under the Act or any enactment prescribed;
- e. The collection and recovery of all purchase-moneys, rents, fees, royalties, charges, and revenues of the Service; and
- f. Generally the exercise of all powers, authorities, and duties conferred or imposed on the Minister or the Forest Service by the Act.

Central management and control of the Forest Service is exercised by the Director of Forestry, with the head office at Wellington. For the purpose of local administration New Zealand is divided into seven conservancies, each under the control of a Conservator of Forests, who is the territorial representative of the Director of Forestry. Conservancies are subdivided into districts under the charge of Forest Rangers, who are under the direction of the Conservators of Forests. Central administration of forest policy is achieved under divisions, each with an Inspector in Charge as principal officer. Five divisions have been set up—namely, management (working plans, silviculture, soil conservation, timber sales, etc.), commercial (logging, sawmilling, and log sales), development (recruitment, training, and research), engineering, and operations (forest law, accountability, public relations, staff, etc.). One other division, industrial, has as yet only a token staff, and one, public and private forestry, remains yet to be developed. Research has been centralized at the Forest Research Institute, Rotorua, and staff training at the Forest Service Training Centre, also at Rotorua.

State Forests.—State forests are administered under the authority of the Forests Act 1949 and the Nussella-Tussock Act 1946. The powers conferred by the Forests Act 1949 to deal with forest produce are subject to the provisions of the Coal Mines Act 1925, the Mining Act 1926, the Petroleum Act 1937, and the Iron and Steel Industry Act 1937. Section 23 of the Mining Amendment Act 1934 provides for the payment to the Crown of compensation for damage to any land vested in the Crown resulting from mining operations. Such compensation in respect of State forests may be claimed by the Minister of Forests from time to time as damage is caused. The Minister of Forests also administers the Waitangi Endowment under powers set out in the Waitangi Endowment Act 1932-33.

Mining Privileges and Coal-Mining Rights.—After the coming into force of the Forests Act 1949 a mining privilege or coal-mining right over State forest land may not be granted except with the consent in writing of the Minister of Forests and subject to such conditions as he may impose. Notwithstanding anything in the Mining Act 1926 or in any licence, lease, title, right, privilege, or other authority under those Acts granted after the Forests Act 1949 came into force, no person may cut or remove any timber or other forest produce on or from State forest land except in accordance with the provisions of the Forests Act.

Regulations.—The Forests Act 1949 authorizes the appointment by regulation of committees to advise the Minister of Forests on specified matters. Regulations issued under this authority are the Timber Production Advisory Committee Regulations 1949 and the Sires Advisory Committee Regulations 1950.

Other regulations in force are the Sawmill Registration Regulations 1942, the Timber Regulations 1948, and the Forest and Rural Fires Regulations 1951. The latter are issued under the authority of both the Forests Act 1949 and the Forest and Rural Fires Act 1947.

Fire Prevention and Control.—A complete coverage of New Zealand with respect to fire prevention and control is now provided by the Forest and Rural Fires Act 1947, the Forests Act 1949, and the Fire Services Act 1949.

The Forest and Rural Fires Act 1947 provides that each County Council is a Fire Authority for the county area under its control, and for the constitution of rural fire districts each to be administered by a committee or by the Minister of Forests as Fire Authority. The Soil Conservation and Rivers Control Council is the Fire Authority for each soil conservation district. Rural fire districts, soil conservation districts, and urban fire districts are excluded from control by a County Council. The Forests Act 1949 provides for the protection of State forest land not protected by rural fire districts. The Fire Services Act 1949 provides for the protection of urban districts.

FOREST MANAGEMENT.—In the field of production forestry, as distinct from protection forestry, the management activities of the Forest Service are directed towards two ends:

- To protect, conserve, and, if possible, perpetuate the remaining indigenous forests of the country.
- To create an exotic estate large enough and sufficiently diverse to supply the future needs of New Zealand in timber and other forest produce, and to provide an exportable surplus.

Indigenous Forest Management.—Conservation measures in indigenous production forests involve regulation and restriction of the permissible annual cut, protection against fire, a careful watch for trespass and the prosecution of offenders caught, rigid insistence on close utilization, both of forests and forest products, and finally block sales of carefully measured and appraised standing timber. Of these measures the last one is particularly important. The system of block sales introduced by the Forest Service in 1921 is in sharp contrast to the previous method of "royalty payment off the saw." The present system encourages close utilization since the sawmiller is required to pay for all timber measured; the previous one encouraged unnecessary waste both in the forests themselves and in the subsequent milling processes. It is estimated that through this administrative reform the Forest Service has succeeded in conserving some 700,000,000 board feet of timber which would otherwise have been left to rot in the forests or been thrown away in slab heaps. A large part of the indigenous forest officers' work is in the routine administration of the block sale system—i. e., in the careful measurement and appraisal of trees for sale and in the periodic and equally careful inspection of milling operations to ensure that waste is not taking place.

Of equal importance to this policy of "conservation through close utilization" is that of rationing the cut of indigenous timbers. As far as podocarp forests are concerned there is little possibility of these ever being harvested as the foresters would like—i. e., on a sustained yield basis with natural regeneration following logging, an even distribution of age classes, and an annual cut equal in volume to the annual growth. The reasons for this should now be well known. They are, briefly, the over-maturity of most podocarp forests, the tendency of the podocarp forests to give way naturally to a climax hardwood association; the silvicultural intractability of a species, which prohibits significant natural regeneration no matter what system of logging is used; the very great difficulties and exorbitant costs of raising artificial podocarp forests; and finally the extremely slow rate of growth of all species. For these and other reasons it is unrealistic to expect that, once the virgin stands have been exploited, the podocarp forests can ever again make any significant contribution to the timber supply of the country. This is an unpalatable fact to many New Zealanders, but nevertheless it must be faced. As a result the only wise policy which can be adopted is to ration the cut of indigenous timbers so that the remaining supplies, particularly of high quality wood, are spread out over the years instead of being liquidated in a very short time. To this end the Forest Service formulates working plans for all major State forests and through them regulates, both by individual forests and by districts, the amount of timber that can be cut annually. Consideration is given to the essential timber requirements of a district and to the extent to which these requirements can be met by the substitution of exotic species.

At the same time the possibility of ultimately regenerating podocarp forests and bringing them into a productive state is far from being overlooked. Research into the silvicultural properties of the species and into the ecology of the natural forest associations is being pursued; and in some instances logging of podocarp forests is being carried out by the Forest Service, with a view, *inter alia*, to the reservation of seed-bearing trees. Logged areas are protected from fire and grazing, thus encouraging the development of natural second-growth associations which should in time act as a nurse crop for podocarp seedlings.

Parallel to the policy of rationing the cut is that of making long-term log and timber sales. This has the effect of giving stability to sawmilling industries and to the communities dependent upon them. In one or two instances further stability is being sought by the practice of interplanting logged areas to exotic species (mainly Douglas fir and western red cedar), combined where possible with the planting up of adjacent areas of open country. By this means a sustained yield, part exotic part indigenous, can be achieved, and the sawmilling industries and communities can look forward to a life in perpetuity.

In kauri forests plans for management on a sustained yield basis have been disrupted by the reservation of the largest remaining area, Waipoua Forest, as a forest sanctuary. Nevertheless the allowable kauri cut is very strictly rationed—diameter limit merely no green kauri under 36 in. in diameter may be felled); rigidly enforced; regeneration and advance growth are protected and tended; areas of natural regeneration are acquired; and nursery ground kauri seedlings are planted out until a species is more amenable to natural treatment than rimu and, although the technique is not easy, it is possible to convert the present overmature forests into healthy vigorous stands and to manage them in perpetuity on a sustained yield basis. Unfortunately the kauri reserves have now dwindled to insignificant proportions and the work of kauri conservation can be on a small scale only.

In contrast to both kauri and rimu, the prospects of perpetuating and improving the beech forests of New Zealand are very good indeed. Both the major species, red beech and silver beech, when given the right conditions will regenerate freely; both grow sufficiently rapidly to be worked on a medium length rotation (100 to 130 years); and both show their optimum development on sites that are unsuitable for agriculture. Moreover there are large tracts of virgin forest still intact, and in the case of red beech extensive areas of young pole forest which have originated as a result of fire, windthrow, or mining activities. All the conditions, therefore, are favourable for sustained yield management. The only major difficulty is in localities where red deer are present in large numbers. Under these conditions the beech seedlings are continuously grazed and the development of regeneration is effectively prohibited. Work in the intensive management of the beech forests has been concentrated in selected areas. In the case of virgin forests it consists of preparing the ground for the reception of seed, marking seed trees for retention; erecting deer-proof fences; felling and utilizing of merchantable trees; and, finally, felling of remaining trees and shrubs other than the seed bearers. Simultaneously thinning operations are taking place in areas of natural regeneration and in the already established pole stands. On a more extensive scale the regeneration and improvement of the forests is being sought by the reservation of seed bearers and by the imposing of diameter limit restrictions which prohibit the felling of young vigorous trees.

As a result of these measures it is confidently expected that future generations of New Zealanders will become heir to beech forests as healthy and productive as any of the best hardwood forests in the Old World.

Exotic Forest Management.—The establishment of State exotic forests dates from 1896 when an Afforestation Branch of the Lands Department was formed and forest-tree nurseries were established at Tapuani and Ewemari in the South Island and at Rotoura in the North Island. Planting commenced in 1898, and proceeded at a slow rate until 1922, by which time 47,000 acres had been established. The formation of the New Zealand Forest Service as a separate department of State in the early "twenties" coincided approximately with an "afforestation boom," and in the period 1923–36 no less than 376,000 acres were planted. Since then plantings have again been on a modest scale and in the period 1937–52 only a further 35,000 acres were established.

In the earlier years the areas selected for planting were often chosen with little consideration of the suitability of the site for tree growing or of the proximity of the forests to existing and future markets. As a result there have been some partial or complete failures, and the geographical distribution of the forests leaves much to be desired. These faults are now being corrected by the establishment of new forests in timber-hungry districts and by the careful selection of areas where the climate, soil, and topography are all favourable to tree growth.

The original plantations contained a great variety of species, most of the common timber trees of the Old World being represented as well as many from the New World, particularly North American conifers and Australian eucalypts. In general, except locally and on very good sites, the European hardwoods such as ash, oak, and sycamore were failures; and of the multitude of eucalypts tried only a few proved suitable for New Zealand conditions. The standard European softwood, Scots pine, was a complete failure, as were many of the American pines, firs, and spruces. Norway spruce promised well for some years, but was finally wiped out by insect attack. Austrian pine was planted extensively in the earlier years and developed into very poor stands; much similar results were obtained from extensive plantings of the *scopulorum* variety of ponderosa pine, and even worse results from the wide-scale and indiscriminate attempts to establish Callitriche nivalis. The success, however, of a few species, and the failures of the others, before long became fairly obvious, which would have made the main situation and profitable species. Pride of place went to radiata pine, which showed the ability to grow rapidly on a wide range of sites and to produce fine stands of timber. It became, and still is, the major exotic conifer of New Zealand. Other major species,

planted according to site, are Douglas fir, Corsican pine, and ponderosa pine. Of recent years the "Southern" pines, *P. taeda*, *P. caribaea*, and *P. palustris* have found a place in the more northerly forests. Minor species planted on a restricted scale are larch, lodgepole pine, *Pinus strobus*, *Pinus patula*, *Cryptomeria japonica*, Lawson's cypress, Monterey cypress, and western red cedar. The species distribution is—

Species	Thousands of Acres
Radiata pine	181
Ponderosa pine	73
Corsican pine	59
Douglas fir	44
Others and mixtures	102
Total	459

Descriptions of the most important species and of their silvicultural characteristics are given later in this Section.

In spite of the failures, New Zealand now has a large and valuable exotic forest estate. It is estimated that the annual growth is in the order of 65,000,000 cubic feet. This represents approximately 400,000,000 board feet of timber, or only a little less than the current total yearly consumption. New Zealand is thus well on the way to being nationally self-sufficient from State forests alone; with privately-owned forests taken into account the annual increment is sufficient to meet all local requirements and to give a considerable exportable surplus as well. Quantitatively, therefore, the position of exotic forestry in New Zealand is basically very sound; qualitatively the forests leave much to be desired. Their various shortcomings, due largely to past mistakes, now present problems which will tax the ingenuity of the forestry profession to the utmost. Specifically, management of the State exotic forests is rendered difficult and complex by reason of—

- The Bad Age-class Distribution.* No less than 65 per cent of the total radiata pine area was planted in one ten-year period; a similar proportion will thus mature in a ten-year period, leading to a temporary over-supply of timber with shortages before and after. The position is much the same with the other major species.
- The High proportion of Radiata Pine.* Although only 40 per cent of the total area is in radiata pine, the proportion in some individual forests and in some districts is much higher. A greater diversity of species would enable a wider range of forest products to be supplied and would lessen the risk of insect or fungal attack on an epidemic scale.
- The Considerable Areas of Low Productivity.* The maximum value from the soil is not being obtained in areas which are occupied by poor species such as *P. ponderosa* var. *scopulorum*, Austrian pine, some races of lodgepole pine, Australian eucalypts, etc. Their replacement by more valuable species must be undertaken.
- The Low Stocking of Many Areas.* Two causes are responsible—the practice during the boom afforestation period of planting at a wide initial espacement, and the failure during the same period to plant up gaps in original establishment. The resultant trees are often open grown and branchy and are producing firewood and pulping material rather than sawlogs.
- Lack of Tending.* Large areas have received little silvicultural treatment since planting. Low pruning has been carried out on an extensive scale, but thinning, which is essential to the health and well-being of the stands, has been badly neglected. As a result many forests are stagnating and are failing to put maximum increment on the best final-crop trees. High pruning, which in a short rotation species is necessary for the production of clean timber and venter logs, has also been carried out on a small scale only.

For these reasons management activities in State exotic forests are directed towards getting a better distribution of age classes in the next rotation, which entails felling some stands before they are mature and leaving others to be carried on to over-maturity; towards converting areas of low productivity to well-stocked stands of more valuable species; and above all towards catching up with arrears of standing. At the same time all these activities must be integrated with utilization projects so that the demand for forest products can be met and forest industries can have continuity of supply; and they must be so planned as to fit in to long-term schemes for sustained yield operation. Working plans, which when approved have Ministerial authority, are prepared for all exotic forests. They not only prescribe detailed planting, thinning, pruning, and felling operations for the next five years but also embody long-term plans of twenty to thirty years or even longer.

Clear-felling activities in State exotic forests commenced on a major scale in 1939, and have been confined almost entirely to radiata pine. In most cases natural regeneration has followed logging, and second rotation crops are now well established. In order to grow high-quality timber, to get the maximum production from the soil, and to lessen the chances of insect or fungal attack, these dense young stands must be thinned early and often. This work is given a high priority.

Production from State exotic forests is now over 6,000,000 cubic feet annually and is increasing rapidly. Sawlogs account for the greatest proportion but many other types of forest produce are produced, notably transmission and telephone poles, fencing posts and battens, mining timbers, stockyard rails, turnip stakes, and firewood. Future production will include not only much greater quantities of saw timber and other forest products, but also large

quantities of chemical and ground-wood pulp, and their derived products—newsprint, kraft, and writing papers.

FIRE PROTECTION.—The fire-protection policy of the Forest Service follows from the premise that, notwithstanding the generally favourable climate, fire is the greatest single menace to forests and protection vegetation in New Zealand; within a few hours fire can undo the work of decades in building up a soil and vegetation balance.

The fire risk in New Zealand cannot be measured by comparing the generally adequate and well-distributed rainfall experienced in most districts with conditions in countries where droughts are frequent and severe and the summers commonly hotter and drier. New Zealand is a mountainous country, and the high winds and strong sunshine, which are characteristics of the New Zealand climate, will dry out the forest vegetation on exposed situations even in the heavy rainfall areas in a remarkably short time.

Although widespread hazardous fire conditions only occur at fairly long intervals there are few seasons during which there are not dry spells or near droughts in some part or other of the country, and very high fire hazards develop. The year 1946 brought the great fires of the central plateau of the North Island, and in 1949 conditions were severe enough in the Auckland Provincial District to cause mortality in a number of native forest species from drought. During 1950 there were numerous forest fires on the West Coast of the South Island, and there was a long continued dry spell in the summer-rainfall districts of the extreme south.

The peculiar and almost unique feature of many New Zealand forest species in being extremely exacting in their requirements for regeneration to take place is of special significance. Forest fires in most countries mean the loss of a crop; in New Zealand a severely burnt forest usually means a destroyed forest. Even the beech species, which will regenerate freely under favourable conditions, can only do so after a severe fire under circumstances which are often quite fortuitous in character. Virgin mixed temperate forests admittedly do not burn readily during normal seasons, but the greater proportion of the remaining forests of this type have been logged for the commercial species. As cut-over forests they are very inflammable, and when burnt become waste lands.

The consequences of the relatively small fires which occur all over the country every normal season are as serious in the long run, if not more so, than the spectacularly large fires common in some countries, in that the losses are accumulative because of the lack of recuperative powers of most of our forest species from fire damage.

The existing areas of protection vegetation on the headwaters of the main rivers are inadequate for the purposes of soil and water conservation, and unless they are protected and allowed to extend, abnormal flooding with costly river-control schemes will continue to be a heavy drain on the resources of the country.

The history of statutory provisions for the protection of forests from fire is a long one going back to 1874, but it was not until the Forests Act 1921–22 established the present Forest Service that the protection of State forests was put on a satisfactory basis. This Act provided for the constitution of fire districts, and also for the protection of forests which because of administrative difficulties could not be protected by fire districts. The principle of fire districts was later extended to cover private forests and lands.

This situation was satisfactory as far as it went, but it left large areas of inflammable vegetation over which there was no authority for controlling the lighting of fires during hazardous weather conditions. The need for legislation to deal with fire control on a national scale was realized, but it was not until the disastrous fires of 1946 that there was public support for such legislation, and the Forest and Rural Fires Act was passed in 1947.

The Forest and Rural Fires Act provides for land on which high fire hazards occur annually to be covered by Rural Fire Districts administered by Committees or by the Minister of Forests. The rest of the country, with the exception of certain areas, is placed under the control of County Councils as the Fire Authorities, with powers to declare an emergency during periods of high fire hazard. State forests which are not covered by fire districts are protected by the Forests Act 1949. In effect there is now no area of rural land for which there is not some Authority for the control and prevention of fire.

The Fire Protection Organization of the Forest Service operates over the whole of New Zealand, covering State forests, forest on other Crown lands, scenic reserves, and national parks. The organization has also the responsibility of securing co-ordination and uniformity in the administration of the Forests and Rural Fires Act by other Fire Authorities.

An efficient fire-fighting service is maintained wherever the Department has fire-fighting responsibilities, according to the needs of each district. This reaches its highest level of organization in the larger exotic forests, where standard Forest Service lookout cabins equipped with fire finders, radio, and telephones are located. Trained fire-fighting crews with modern equipment can be brought into action at a minute's notice and controlled through a radio network. Aerial patrols operate during each fire season in the important Rotoura area.

The provision of a fire-hazard prediction and warning service is an essential function of the Fire Protection Organization. A nation-wide network of fire-weather and radio stations is maintained, and the fire-hazard situation in any part of the country is known at the Head Office of the Forest Service in Wellington each day during the season within an hour of the weather observations being taken at the stations. This enables appropriate action, such as advice to Fire Authorities and broadcasting of warnings, to be taken as the circumstances require.

SOIL CONSERVATION.—Through its ownership and control of some 6,000,000 acres of protection forest the Forest Service is deeply involved in the vital national question of conserving soil and water resources. Ever since its inception the Forest Service has insisted that the maintenance of an adequate vegetative cover is the only possible means of preventing accelerated soil erosion and of regulating stream flow. It believes that the root of the problem lies in the headwaters and catchment" of the rivers, and it is there, and not in the lower reaches, that preventative and remedial action must be taken. Downstream engineering, necessary and valuable though it may be, does not strike at the cause of the trouble and can never be anything but a palliative.

In the light of these convictions the policy of the Forest Service in soil-conservation measures is clear cut. It is simply to initiate or encourage any action which would conserve or improve the existing cover, and conversely to prevent or discourage any action which would have the reverse effect. This policy dictates the management activities of all State forests where soil erosion is an important consideration; it is advocated by the Forest Service as the correct policy for all types of eroded land, irrespective of land tenure.

The forest management activities undertaken in protection forests are: protection from fire; prohibition and control of grazing; limitation of sawmilling activities; reservation of secondary species in some logging operations; extermination of animal pests; and, in some cases, artificial re-establishment. Of these, the most important are fire prevention and suppression (discussed earlier) and the control of introduced animal pests. The latter work is undertaken not by the Forest Service, but by the Wildlife Branch of the Department of Internal Affairs. Close liaison, however, is maintained, and the Forest Service provides the Wildlife Branch up-to-date information as to which forest areas are most critically in need of attention. In addition, the Forest Service undertakes its own control measures in exotic forests and in some selected indigenous forest areas.

Co-ordination in forest-protection work is achieved through the Department's representation on the Soil Conservation Council and on the twelve Catchment Boards now operating throughout the country; through the secondment of a professional forest officer to the staff of the Soil Conservation Council; and through the activities of the local land-use committees (representing the Departments of Agriculture and Lands and Survey, and the Forest Service) which recommend the optimum land use policy for marginal or doubtful areas.

PUBLIC AND PRIVATE FORESTRY.—The method first adopted in New Zealand for encouraging the planting of trees for the production of timber was by means of "land grants"—a settler being given a free grant of land if he planted a certain portion of his land with suitable trees. Several large plantations were established in Canterbury by this method, which, however, was abandoned in the "eighties."

For some years prior to 1931 the Forest Service raised and sold trees to intending planters and further assisted with advice from officers specializing in this branch of forestry activity. In 1931, at the cogent request of the Horticultural Trades Association, the State ceased the sale of trees, and the work of the extension officers became incidental to the other duties of the general staff.

Private Forest Estate.—The area of planted forest owned by afforestation companies, local authorities, and private persons was reported in March 1950 to be 435,600 acres.

Private and local authority ownership is estimated to account for about 100,000 acres of the above, and it was composed mainly of radiata pine with a proportion of longer rotational species. Many of the original plantings have been milled and some are in process of regeneration. Because most of the areas had received little or no care since establishment, the produce has been very knotty, but owing to its greater age (and consequent high heartwood content) it has found extensive use.

Afforestation companies boomed in the 1923–30 period, when huge areas were planted—they are now estimated to cover approximately 335,000 acres. The species used was almost wholly radiata pine. Utilization was commenced some years ago in an endeavour to bring this short-period establishment into a normal series of age gradations, and the cut-over is already being regenerated.

Forest Taxation.—Taxation of forest land and forest income has been under critical review during recent years, and was the concern of a special Committee of Inquiry. Several pressing reforms have been introduced, and a number of further anomalies are expected to be removed. The necessity for these reforms arose from the need to change a tax system based largely on the habit of "devastation cutting" to one which recognized the importance of forest management.

Land tax is levied on the unimproved value and does not include the value of trees growing on the land. However, valuations for death-duty purposes do include the value of growing trees.

Income from the sale of trees is taxable in the same way as other income with the following exceptions:

- Intermittent income such as from the sale of farm woodlots may be spread over a period of five years in order to mitigate the effects of the higher graduated tax.
- Expenditure incurred by a farmer in planting and maintaining shelterbelts and woodlots may be offset against income for tax purposes.

RECLAMATION OF SAND DUNES.—Sand-dune fixation which, since 1931, had been in the hands of the Ministry of Works has been transferred to the joint control of the Department of Lands and Survey and the New Zealand Forest Service. The primary objective is the reclamation of land for agricultural and pastoral purposes. Trees are being established by the Forest Service on the protective zone and on such other dunes as have no agricultural or pastoral potential; and existing plantations are being thinned. Some useful forests will result. Sand-dune-reclamation schemes may ultimately embrace a large part of the 290,000 acres of dunes in New Zealand.

FINANCE OF STATE ACTIVITIES.—The financial objective of the New Zealand Forest Service is to develop sufficient forests which will be free of debt when the production of mature timber commences, and which will then be managed as revenue producing units for the benefit of general Government funds. None of the State exotic forests has yet fully reached this stage, and forest revenue is therefore insufficient to meet the costs of development. The excess expenditure is met from general Government funds and, as far as possible, from current revenue (i. e., taxation, etc.), but the amount involved has been such that loan moneys from the Public Works Account have also been required.

Expenditure by way of general administration of forestry as distinct from the development of State forests for subsequent management is, of course, met in full from the Consolidated Fund.

The excess of expenditure over forest revenue in connection with forest and allied development has been financed as follows during the last five years.

Year Ended 31 March	Excess of Expenditure Over Forest Revenue	Excess Financed from—	
		Loans	Consolidated Fund
	£	£	£
1949	1,338,000	813,000	525,000
1950	1,742,000	1,517,000	225,000
1951	1,130,000	721,000	409,000

Year Ended 31 March	Excess of Expenditure Over Forest Revenue	Excess Financed from—	
		Loans	Consolidated Fund
1952	1,325,000	983,000	342,000
1953	1,500,000	685,000	815,000

The following table provides a summary of receipts and payments from all sources for the last five financial years.

Item	1948-49	1949-50	1950-51	1951-52	1952-53
	£	£	£	£	£
Indigenous forests receipts—					
<i>Receipts</i>					
Timber sales	194,934	244,429	254,553	267,519	236,769
Timber royalties and trespass	27,382	27,732	57,740	56,433	57,418
Leases, grazing	2,822	3,224	3,741	3,965	2,308
Sawmill sites, industrial, etc.	381	500	436	406	369
Miscellaneous	20,247	33,928	23,179	30,439	28,355
Log sales from managed forests	129,983	164,951	174,941	197,765	197,886
Exotic forests: Poles, posts, firewood, log sales, etc.	57,544	204,148	224,758	346,850	480,362
Utilization projects—					
Sawn timber	214,366	257,673	478,843	797,920	754,889
Creosoted products	11,677	53,823	80,673	98,632	132,281
Box shooks	187,212	154,255	188,681	237,398	212,837
Miscellaneous	16,168	5,322	2,336	19,227	22,470
Miscellaneous credits	35,960	32,083	35,812	48,477	37,783
Totals	898,676	1,182,068	1,525,693	2,105,033	2,163,727
Allocation of revenue—					
<i>Payments</i>					
Local authorities	29,219	33,967	44,886	45,537	55,490
General management charges—					
Salaries	283,869	366,869	397,645	476,022	535,717
General expenses	168,373	178,979	127,584	154,790	192,269
Land purchase	34,188	22,372	12,418	68,352	42,243
Forestry projects under direct management—					
Exotic	1,039,630	1,265,701	1,058,691	1,321,184	1,284,254
Indigenous	157,503	294,158	202,070	213,944	265,683
Utilization: Sawmill, creosote plant, etc.	500,694	676,491	799,330	1,062,598	1,287,005
Pulp and paper making	23,670	85,517	12,343	66,556	1,361
Totals	2,237,146	2,924,054	2,654,967	3,408,533	3,664,022

The revenue from indigenous forests is used to reduce loan moneys required to finance forest activities under the Public Works Account, and statutory allocations of receipts to local authorities are a charge on the Consolidated Fund.

FOREST UTILIZATION: Production of Sawn Timber.—Sawn timber is produced from two entirely distinct but nevertheless complementary resources—the indigenous forests and the exotic forests. From the days of the first European settlement the former have been subjected to destructive cutting, and because of the unduly long cycle of reproduction must from a commercial viewpoint be regarded as largely a wasting asset. Consequently, as far as the indigenous forest is concerned, the sawmilling industry has had to follow a constantly receding forest edge—with the inevitable result that the industry has never been able to achieve any real measure of stability. Thus the production of indigenous timber has been based traditionally on rather primitive mills with poor living conditions for the workers; the forest could not be worked on a continuous cycle that would permit a sawmill to operate successfully on a permanent basis, hence there was no incentive to undertake more than the minimum of capital expenditure.

Up to about twenty years ago virtually the total output of sawn timber was produced in this way. The usual sawing equipment was a circular breaking-down saw for Hitching the logs and a breast beam circular resaw. The characteristics of the product may be summed up by saying that while the quality of the timber itself was probably equal to any in the world the sawing was anything but accurate. The mills in general had a low cutting capacity and seldom did the annual sawn output per mill exceed 2,000,000 board feet. Up to the Second World War the total yearly production of sawn timber in normal years fluctuated around the level of 300,000,000 board feet.

In the "thirties" significant changes began to develop. On the one hand the easy abundance of indigenous timber had gone, while on the other hand certain forests of exotic species, which had been established about the beginning of the century, had reached an age when cutting could commence. These exotic forests had been planted in conifers from the northern hemisphere to offset the depletion of the indigenous forests. They put on rapid growth under New Zealand conditions and the objective from the outset has been the management of these forests for sustained yield on the basis of permanent forest industries and modern communities with a normal range of amenities. In 1930 the production of exotic species was only 10,000,000 board feet, but by 1939 had risen to 42,000,000 board feet. However, virtually the whole of this production came from farm shelter belts and woodlots and was sawn in the same type of primitive mill as that characteristic of the indigenous forest. The product was used almost entirely for rough temporary work and boxmaking as there was still ample indigenous timber for all better class requirements.

At the end of that decade the first major step was taken in the evolution of sawmilling from a primitive, shifting industry to a stable industry based on permanent, well constructed capital installations with modern equipment and good living and working conditions. The Forest Service established a modern sawmill of Swedish design at Waipa, near Rotorua. This mill has high-speed gang frames with an annual cutting capacity of more than 20,000,000 board feet. The Service subsequently established another mill of this type at Conical Hill, near Tapanui. These mills were designed to serve as demonstration units and to enable the Forest Service to pioneer sawing, seasoning, grading, and merchandising techniques for the logs and timber yielded by the exotic forests. While such mills involve a large capital investment, they are permanent, have a high output with low unit costs, and yield accurately sawn timber. Mills similar in type have been constructed since the Second World War by private enterprise, and the Waipa and Conical Hill mills are also serving as prototypes for the huge sawmill to be erected in connection with the Murupara scheme.

The production of exotic timber is increasing rapidly, and it is gradually finding acceptance for general building purposes and a wide range of other uses. By far the most important of the exotic timber species is radiata pine, which accounts for about 95 per cent of the total cut of exotics; larch, eucalypts, Douglas fir, and a few other species are produced only on a minor scale. Not more than 60 per cent of the country's timber requirements now comes from the indigenous forests, and this proportion must inevitably fall steadily as cutting is gradually reduced to the point where a small sustained yield of indigenous timber can be maintained. In connection with even the indigenous forests, however, it should be noted that the policy of the Forest Service wherever possible is to arrange sales on such a basis as to give mills an operating life long enough to warrant the installation of modern plants and the provision of a good standard of housing and amenities.

Logging methods, too, have been changing from the traditional use of steam haulage and bush tractors, linking bush with bush, to tractor logging and motor-tractor haulage of logs; the latter method permits the working of scattered and lightly stocked stands of indigenous timber. Roads, too, are an essential feature of exotic forests for fire protection and forest management as well as for log haulage; and tractors are favoured for their dual role of roading and extraction.

The following table gives details of timber production by species for the past five years; quantities are quoted in board feet (i.e., units of 12 inches by 12 inches by 1 inch).

Species	Year Ended 31 March				
	1949	1950	1951	1952	1953
<i>Board Feet (000)</i>					
Rimu and Miro	216,310	227,051	228,515	225,407	231,564
Matai	29,806	32,829	36,957	36,864	35,638
Totara	13,418	12,840	14,318	17,402	14,159
Kahikatea	17,697	20,066	19,771	20,042	20,642
Beeches	16,867	17,167	17,638	17,972	17,892
Tawa	8,533	9,385	11,152	15,513	15,107
Kauri	1,417	819	1,154	1,630	1,462
Other indigenous	3,141	3,551	3,858	4,284	4,064
Totals, indigenous	307,189	323,708	333,363	339,114	340,528
Exotic pines	157,938	146,537	184,229	224,452	222,340
Larch	430	2,500	2,408	3,798	2,447
Eucalypts	2,226	2,120	3,152	2,864	2,545
Douglas fir	419	1,169	1,875	2,351	2,728
Macrocarpa	1,000	1,257	1,820	1,954	1,916

Species	Year Ended 31 March				
	1949	1950	1951	1952	1953
Other exotic	1,143	1,110	775	710	481
Totals, exotic	163,156	154,673	194,259	236,139	232,457
Totals (all species)	470,345	478,381	527,622	575,243	572,985

Details of the 4,545,000 board feet of "other" timber for the year ended 31 March 1953 are as follows.

Species	Board Feet
Pukatea	631,000
Rewarewa	624,000
Tararua	553,000
Hinenui	508,000
Rata	464,000
Mangao	427,000
Poplar	392,000
Tanekaha	388,000
Puriri	275,000
Other	283,000
Total	4,545,000

Production of Pulp Products.—The pulping industry is only in its infancy in New Zealand. Two private organizations are producing mechanical pulp, the one for the manufacture of fibre, building, and insulating boards, the other for the manufacture of container board, and one company is also producing sulphate pulp for the manufacture of multi-wall bags and for export. Both of these producers are using radiata pine from their own exotic forests for their pulping operations; there is no pulping of indigenous species. One paper mill is manufacturing wrapping paper from imported pulp. In addition, a comprehensive national scheme provides for the early establishment of both a sulphate pulp mill and a newsprint mill (see following). The two sulphate mills and also the ground-wood mill to furnish pulp for newsprint will use exotic species, mainly radiata pine, for their pulpwood requirements.

The quantity of wood pulp produced in New Zealand during each of the last five years has been as follows: 1948, 21,077 tons; 1949, 21,438 tons; 1950, 23,714 tons; 1951, 24,947 tons; 1952, 26,685 tons.

The Murupara Scheme.—Following a visit to New Zealand in 1925 by an overseas pulp and paper expert and successful tests in 1928 to prove the suitability of New Zealand's exotic softwoods for pulp and paper production, the Kaingaroa State Forest was extended to its present size of 284,000 acres. To guard against the vulnerability of a single species to insect and fungal attack, a diversity of species was planted, and the part included in the Murupara Working Circle contains approximately 100,000 acres of radiata pine and areas of several other species totalling a further 100,000 acres.

In 1949 further successful tests were carried out on a commercial scale to prove that resin and other problems associated with making newsprint from radiata pine could be overcome under operating conditions. Favourable reports were also submitted by overseas consultants on the feasibility of the proposal to establish an integrated sawmill and pulp and paper mill to convert the timber from the Murupara Working Circle.

In June 1951 the Government issued a world-wide invitation to organizations commanding adequate technical and financial resources to establish an integrated sawmill and pulp and paper mill for the conversion of an annual log supply of 23,000,000 cubic feet offered from the Kaingaroa State Forest.

The only offer was from the Tasman Group. A committee set up by the Government to examine this offer recommended its acceptance, and the Tasman Pulp and Paper Co., Ltd., was formally registered in July 1952 with a provisional directorate of three Tasman Group directors and three Government directors.

For the whole scheme £28,000,000 will be required, £15,000,000 for the company's plant and £13,000,000 for the allied public works, such as the harbour at Mount Manungui and the railway from Murupara to Edgecumbe. The Government has made arrangements to raise loans in both the United Kingdom and the United States of America to finance overseas purchases of equipment, materials, and services for the Murupara project. Loan moneys for the project as a whole are being raised by the Government, which in turn is lending to the company. It has also been announced that public subscription will be invited in New Zealand when the project is further advanced.

Concurrently with financial negotiations steady progress was made with the planning and design of the project by a firm of Canadian consultants and construction commenced late in 1953. The target date for commencement of production by the pulp and paper mill is mid 1955.

The annual output of the integrated plant available for sale will be 75,000 tons of newsprint, 5,000 tons of kraft pulp, and 72,000,000 board feet of sawn timber. It is proposed to start the saw-mil on a one-shift basis towards the beginning of 1955, to allow the logging organization to develop during the period before the pulp and paper mill comes into production.

The plant site is at Kawerau, near Mount Edgecumbe, in the Bay of Plenty district, and has an ample water supply and is well situated for the disposal of effluent into the Tararua River, which has a direct 12 mile course to the sea from Te Teko. A test bore at Te Teko also gives promise of a good supply of geothermal steam for the project. The logging gangs will be housed in a township of some four hundred houses on the east side of the Kaingaroa Forest at Murupara.

The Kinleith Project.—Another large-scale development in the utilization of exotic forests has resulted from the activities of New Zealand Forest Products, Ltd. This company owns, and operates on, an area of 176,000 acres planted in radiata pine.

Sawmilling operations began in 1939 and were followed by the manufacture of insulating board and later of hardboard.

The company's activities have been considerably expanded in the last few years, and now include a very large mechanized sawmill with an annual capacity of 40 million board feet of sawn timber, and kraft pulp and paper mills with a maximum annual output of 45,000 tons of kraft pulp and 25,000 tons of kraft paper. Some of the kraft pulp is to be exported under contract to Australia. With its developmental programme coming to fruition it is anticipated that a capital investment of approximately £6 million will have been made.

Plywood and Veneer Manufacture.—Four factories are engaged in the manufacture of plywood, and the total output for the year ending 31 March 1953, when reduced to a uniform basis of 3/16 in. thickness, was 31,044,000 square feet. Three other plants produce limited quantities of veneer only.

For the most part logs from the indigenous forests form the basis of the plywood and veneer industry, though the peeling of exotic species, particularly radiata pine, shows a good deal of promise and is likely to increase steadily in importance. Now that the indigenous forests have become so depleted the production of peeler logs for veneer and plywood manufacture is regarded by the Forest Service as having a first claim on the State forests; hence in its own logging activities the Forest Service aims at producing the maximum amount of peeler logs, and has recently also adopted a policy of requiring sawmillers purchasing State indigenous forest to reserve logs suitable for peeling and divert them to the veneer factories.

Other Wood and Split Products.—Considerable quantities of native timbers have been required in the past to meet the needs for mining, fencing timbers, firewood, and a proportion of sleeper, pole, and bridge timber requirements. Thinnings and small diameter logs from exotic forests should now make useful contributions towards satisfying those needs and justify the operation of commercial-sized preservative treating plants.

Wood Preservation, Grading, and Seasoning.—Apart from the Forest Service creosoting plants intended especially for timber for ground contact use, the more recent establishment of plants by private enterprise for treatment of sawn timber with water-soluble preservatives has permitted far greater use in buildings of the non-durable grades and species from both indigenous and exotic forests. In this country, with its deeply rooted conservatism in timber use, and accustomed to the extravagant use of indigenous softwood logs carrying a high proportion of heartwood with excellent durability, strength, and stability, and a minimum of defects, such developments, together with those concerned with timber grading and improved seasoning techniques, have inevitably been slow. The significance of correct grading becomes more manifest as the use of exotic timbers extends. Another aspect of the more complete utilization of the sawn products of indigenous softwood logs was the recognition during the "thirties" of a need for accelerated and controlled seasoning in drying kilns. A further impetus has been given to this trend by the expansion of exotic timber utilization, as these woods dry easily and rapidly in kilns.

OVERSEAS TRADE.—New Zealand is self-sufficient in timber resources as far as quantity is concerned, but has always found it necessary to import strong, hard, and durable Australian hardwoods for railway sleepers, poles, cross-arms, wharf, bridge, and constructional timbers, etc. In addition there has been a traditional demand for Douglas fir, redwood, and western red cedar from North America for structural uses and exterior joinery. Other imports are normally limited to Japanese oak for the furniture trade and small quantities of other species for specialty purposes.

While exports have fallen to quite low levels in recent years owing to the absence of any real surpluses of indigenous timber there has been a growing trade with Australia in radiata pine. The export potential is approximately 150,000,000 board feet annually, but the attainment of this level is dependent on the large scale development of the exotic forests in the North Island and is not likely to be realized for many years to come.

Details of overseas trade during the calendar year 1952 are given below.

Exports	Board Feet (000) Sawn Timber	Value in £(N.Z.)
Radiata pine—		
Sawn	9,901	324,800
Cases	3,971	173,000
Rimu	2,016	72,400
Matai	168	7,700
Kahikatea	80	3,000
Beeches	433	15,500
Other	54	1,800
Totals	16,623	598,200

<i>Exports</i>	Board Feet (000)	Sawn Timber	Value in £(N.Z.)
<i>Imports</i>			
Sawn or hewn timber—			
Australian hardwoods—			
Sawn	13,674	730,000	
Hewn	1,701	80,400	
Railway sleepers	5,374	206,500	
Logs and poles	10,670	362,100	
Douglas fir	14,131	575,200	
Oak	2,222	166,100	
Cedar	3,460	230,400	
Redwood	2,842	199,700	
Other logs and poles	718	16,200	
Other		191,300	
Total		2,757,900	

The following table gives a summary of exports and imports for the past five years. The value of imports is the value in country of origin for the year 1952; but for previous years it is the value in country of origin plus 10 per cent.

Calendar Year	Exports of Sawn Timber (New Zealand Produce)		Imports of Timber			
	Quantity	Value	Sawn or Hewn	Sleepers	Logs and Poles	Total Value*
	Bd. ft. (000)	£(N.Z.)	Bd. ft. (000)	Bd. ft. (000)	Bd. ft. (000)	£(N.Z.)
1948	22,846	508,900	15,604	22,520	4,839	1,131,500
1949†	24,592	554,500	26,594	14,162	4,646	1,259,100
1950	14,854	371,600	19,949	9,314	4,430	1,192,700
1951	21,491	593,200	21,949	4,528	4,922	1,379,300
1952†	16,623	398,200	39,338	5,374	11,478	2,757,900
* Inclusive of value of split posts and other items.						
† Provisional.						

RESEARCH.—All forestry and forest products research administered by the Forest Service has since 1947 been co-ordinated or undertaken by the Forest Research Institute, Rotorua.

The complexity of the many indigenous and exotic forest problems necessitates the maintenance of an organization such as this, working on the principle of continuity in a co-ordinated programme of investigations.

While the onus is on the Forest Service as the national forest authority to bear the major share of forestry and forest products research, the Department of Scientific and Industrial Research, the University of New Zealand, and private industrial organizations also undertake both applied and pure research in certain aspects of forestry and forest products.

The scope of the research that is being undertaken may be summarized as follows:

Silviculture.—

- Intensive study of the ecology of beech, kauri, and podocarp forests leading to the development of systems of silviculture which will provide the basis of sustained yield management.
- Establishment of a series of permanent sample plots in commercial exotic forests to study the response to various grades of thinning and to obtain data on growth and yield throughout the rotation.
- Research on quality and origin of seed in conjunction with tree type improvement based on general principles, involving vegetative propagation of desirable parent stock. Forest soils investigations (in collaboration with the Department of Scientific and Industrial Research), with particular reference to the long-term changes in punice soils, and to the effect of chemical treatments on soils associated with poor tree growth.
- Development of national arboreta in geographically representative localities, and a central herbarium of forest vegetation.

Mensuration.—The compilation of volume tables for both standing forests and logs, in respect of both indigenous and exotic species. Yield tables for exotic species; increment studies; research on timber conversion factors and logscaling; and form-class investigations applicable to chief exotic conifers.

Forest pathology.—The investigation of all organisms and factors harmful to the growth of forests, embracing both entomology (including biological control of insect parasites) and mycology, with particular reference to the fungi affecting radiata pine and beech forests.

National Forest Survey.—This subject is treated in detail on page 503.

Forest Products.—Current research is centred upon evaluation of the inherent properties of those timbers, both indigenous and exotic, which must gradually replace the widely-used indigenous softwoods and imported timbers and forest products. In parallel with the basic studies are those relating to establishment of grading rules, to air-seasoning and kiln-drying, wood preservation, and wood use generally. As the direct result of such research, a number of Codes of Practice and Standard Specifications are being evolved to meet the needs of industry, while the more fundamental aspects are discussed in Forest Service publications and research notes. Some results of specialized work on wood chemistry, plant, and wood preservatives by the Department of Scientific and Industrial Research, and on aspects of utilization of exotic forest timbers by non-Government organizations, are also becoming available. Meanwhile the earlier research work by the Forest Service on the indigenous softwoods indicates the ways in which the dwindling resources may be used most intelligently and economically.

PRINCIPAL FOREST TREES.—A brief description of the chief forest trees with their distribution and the uses of their timber is now given.

Hardwoods.—**SILVER BEECH** (*Nothofagus menziesii*). This species is widely distributed throughout both the North and South Islands, particularly in cold, wet, mountainous country, but it is also capable of occupying a very wide range of sites and soils from swamps to dry talus slopes, and from sea level to the timber limits at 4,000 ft. It frequently occurs in admixture with podocarps or with the other beech species but forms pure stands in high altitude forests and in the lowlands of western Southland. In this latter locality it attains its optimum development. In form it is an exceedingly plastic species varying, according to site, from a low branched shrub to a tall massive tree, total height 80 to 90 ft., branch-free bole to 60 ft. (average 36 ft.), breast height diameter to 72 in. (average for commercial forest 24 to 36 in.). In virgin lowland forest the older trees, circa 350 years, are normally heavily defective. Such stands may carry up to 25,000 board feet per acre, averaging less than 10,000 board feet, but, under management, production of 50,000 board feet per acre on a 120-year rotation is anticipated. In general form and in its silvicultural characteristics under management, silver beech might best be compared with European sessile oak.

The Southland timber (averaging 34 lb. per cubic foot air-dry) is of a pinkish colour when first cut, changing to a light brown with exposure. It is straight in the grain, easily worked, and strong, but not durable in contact with the ground. The principal uses are flooring, interior finish, furniture, bentwood, agricultural implements, bodies of motor cars, billiard tables, tool handles, dowels, rifle stocks, shoe heels, casks, barrels, cheese crates, and packing cases. The denser silver beech from districts other than Southland air-seasons slowly but satisfactorily under cover, and is suitable for most of the less critical uses where the heavier weight (46 lb.) is not disadvantageous.

MOUNTAIN BEECH (*N. cliffortioides*). This is the characteristic tree of the drier inland and eastern mountain ranges, though it occurs also on a wide range of sites down to, and including, acidic bog soils and spray-wet coastal cliffs. At high altitudes and in the bogs it is a small stunted tree or twisted shrub, but on favourable lowland sites, particularly in western Southland, it attains a maximum height of 80 ft. with up to 60 ft. of clean evenly tapered bole, with a breast height diameter to 48 in. (average 18 to 24 in.). On such sites it displays rapid growth with a potential rotation period of 90 years. The total life span is less than that for the other beech species, and trees are overmature and defective at approximately 150 years. In many forests mountain beech is aggressive at the expense of other species. As with all the native beeches, heavy seed crops may be expected, particularly within the areas of optimum range, at three to four year intervals normally following hot, dry summers. From the viewpoints of water-shed protection and soil conservation, mountain beech and silver beech are undoubtedly two of the most important trees in the country, but at the same time are the two species most susceptible to damage by exotic browsing animals.

The Southland timber is potentially important as a substitute for silver beech in many uses. It is intermediate in density between Southland silver beech and red beech, sharing with the former the advantages of an excellent density to strength relationship, and reasonable ease of seasoning. Evidence suggests that heartwood is durable in outdoor locations, but the indicated uses meanwhile will be those requiring a tough, straight-grained, and even-textured timber in motor bodies, factory trucks, implement manufacture, gates, handles, and in industrial and domestic flooring. The timber is also very suitable for general building purposes.

BLACK BEECH (*N. solandri*). Contrary to previous reports, black beech is of strictly limited occurrence. It has invariably been confused with lowland types of mountain beech to which it bears a close resemblance and with which it hybridizes freely. In the South Island the two species merge and become generally indistinguishable. The type can only be recognized with certainty on lowland sites in Nelson and Marlborough. In the North Island black beech characteristically occupies lower hill slope and valley sites to the east of the main ranges, sites intermediate between the podocarp forests and the main bulk of the beech forests proper. Few, if any, extensive areas of pure black beech forest remain. In its behaviour under management it again resembles mountain beech though growing to a somewhat larger size than the latter. As with all the indigenous beeches, young vigorous trees are marked by smooth light coloured bark, and maturity or over-maturity by the development of rough fissured bark of darker colour.

The timber (49 lb. per cubic foot air-dry) is yellowish-white with black-streaked heartwood, which is extremely durable in the ground. With its additional advantages of high strength, hardness, and excellent wearing properties, the heartwood is suitable for bridge decking, bridge timbers, and

similar purposes, as well as for fence posts. Sapwood clear of defect is suitable for dowels, handles, and bentwood, while other grades are suitable for building. The greatest obstacle to sawing black beech is the high silica content, which causes rapid blunting of saws. Supplies are relatively restricted.

RED BEECH (*N. flexilis*). Red beech is a tree of very wide, though discontinuous, distribution from the Thames mountains south almost to Foveaux Strait. In the far south it is clearly beyond its optimum climatic limits and is vigorous only on restricted special sites in western Otago. In the North Island it is generally restricted to mountain forest on the inland and eastern ranges, typically in the Ureweras and in the Kaimanawa. The finest red beech

forests are those of western Nelson and north Westland. Here the species is most vigorous, regenerates freely, displays its fastest growth, and reaches its maximum size. Red beech is a tall massive tree, total height 100 ft. or more with up to 70 to 80 ft. of clear bole, ranging in diameter to 72 or 84 in., but trees of this size are seldom found. The average diameter is 40 in. Within its area of optimum range red beech can be managed under a simple uniform clear-cutting system with a rotation of less than 100 years. Second-growth stands have been logged at 62 years. Red beech forests outside this optimum area will, for various reasons, require more skilled management under selection or shelterwood systems, techniques not yet economically possible on any considerable scale.

The timber when first cut is a pinkish-red in colour, turning to a light brown on seasoning; it is hard, strong, easily split, durable, and of about the same weight (about 44 lb. per cubic foot air-dry) as English ash. It is slow seasoning, and requires maintaining a ro over the stack to prevent sun checks, warping. When good-grade stock is seasoned carefully it is suitable for house construction (framing is installed green), furniture, bentwork, handles, dowels; other established uses are sleepers, bridge timbers, fence posts, mine props, boat building, and flooring (domestic and industrial). Its excellent bending and even-wearing qualities are particularly significant in connection with the last two uses. Material containing sapwood is suitable for parts of buildings and other uses where there is no decay hazard.

HARD BEECH (*N. truncata*). A tree very similar in general appearance to red beech but normally somewhat smaller. The leaves are more coriaceous and the species favours the drier sites, red beech in the valleys and hard beech on the ridges. In geographic range it extends farther north than any of the other species and occurs in Northland in local association with kauri. Throughout the North Island its usual distribution parallels that of red beech but is more markedly discontinuous. In the South Island it is not found outside Marlborough, Nelson, and north Westland. In these areas it occurs in admixture with red beech or, south of Westport, with rimu. This is its area of optimum range. Silviculturally it bears close comparison with red beech though growth rates are not so well known and may prove slower. Its stem form is not so equal to that of red beech. As with all the beeches, satisfactory form is assured only when stands are maintained in a heavily stocked condition, at the expense of volume increment, until height growth is completed. Red and hard beech hybridize readily, but apparently not so freely as either red or hard beech with either black or mountain beech.

Until recently its timber (48 lb.) was confused with that of the red beech, but it is harder and probably more durable. When first cut it is pinkish in colour. Its uses are the same as those of its near relative, the red beech. This species may be expected to become, with red beech, progressively more important as a local substitute for the durable Australian hardwoods in outdoor applications, as well as providing mining timbers. The timber is slow-seasoning and liable to warp and check unless seasoning technique is correct, with special emphasis upon protection from the sun.

TAWA (*Beilschmiedia tawa*). A shade-tolerant evergreen tree with graceful willow-like foliage and thin black bark widely distributed throughout the podocarp forests of the North Island and, locally, in coastal forests of Nelson and Marlborough. On certain hill sites and elsewhere, following the logging of the physiognomically dominant podocarps, tawa assumes dominance, but the long-term stability of such tawa forest types is not known. Tawa regenerates freely, though in comparison with the beeches growth appears somewhat slow. Mature trees reach a maximum height of 80 ft., averaging 50 to 60 ft., with breast height diameters up to 48 in., though generally averaging about 20 in. Stem form is not good, the bole tending to be irregular or forked, and logs of length exceeding 20 ft. are seldom obtained. Tawa is important as the most widely distributed species of commercial significance residual in, or developing in, fully exploited podocarp forests. Its ultimate role under more intensive silvicultural management is, as yet, the subject of inquiry.

The timber (46 lb.) is light brownish-white to cream in colour, hard, straight-grained, strong, but not high in shock resistance. It deteriorates rapidly if left block-stacked in an unseasoned condition, but where rapid air-seasoning under cover is carried out under hygienic conditions degrade is slight. Kiln-drying green is slow but the saw is the preferred, practicable method of seasoning. With its excellent machining and finishing qualities, combined with a high yield of dressing grade timber, tawa is a first-class furniture wood and very suitable also for all other interior woodwork and flooring and turned products such as dowels, rods, handles, and clothes pegs. Treatment to give immunity from attack by the powder-post borer will extend its popularity for these uses. Lower-grade timber is suitable for framing, damage, and hardwood pulp.

Indigenous Softwoods.—**KAHIKATEA** or **WHITE PINE** (*Podocarpus dactyloides*). This species is widely distributed throughout a complicated pattern throughout New Zealand. It occurs on dry sites in hill podocarp forests in association with matai and totara, and on such sites the trees are very large and very old. It occurs, also, in dense stands in swamp forests throughout the country. In the swamps kahikatea is vigorous, self-renewing, regenerates well in certain localities prolifically, and displays comparatively fast growth. The saplings and poles are usually of excellent form and early develop long clean boles. Mature kahikatea are fine trees frequently exceeding 140 ft. in total height (though considerably less in the far south) with diameters breast height to 72 in. (averaging 30 to 40 in. in the hills and 20 to 30 in. in the swamps). Clear logs to 80 ft. in length are not exceptional. Only one factor has served to prevent the initiation of intensive sustained yield management. The swamps in which kahikatea is vigorous, when drained and developed, are the finest dairy lands in the country.

Logs from most lowland sites consist almost entirely of white sapwood from which long clear lengths in wide widths may be sawn. The timber is light (averaging 29 lb. per cubic foot air-dry), even-textured, of moderate strength, easily worked, and practically odourless; the last quality made it pre-eminent as a container for easily-tainted foodstuffs such as butter. With the advent of the fibreboard butter box the timber has become more readily available for kitchenware, miscellaneous woodware, kitchen furniture, vans, boat building, and house building (after preservative treatment). Heartwood forms a significant proportion of old hill-grown logs; it is yellow, sometimes mislabeled "yellow pine," durable, and is a useful substitute for heart kauri.

KAHIKATEA (*Araucaria australis*). Kauri, the most celebrated of all New Zealand trees, is a species of most restricted distribution with but few outliers outside the Northland and Coromandel Peninsulas, but of the original areas only remnants remain. The giant dominions in virgin forest, up to 20 ft. in diameter with taperless smooth boles reaching to 80 ft. or more, are immensely old and are rightly regarded as national monuments. Yet, of all the native softwoods (saving only kahikatea in the swamps), kauri proves, silviculturally, the most amenable. Regeneration can be secured (by way of nurse crops of *Leptospermum* or by suitable shelterwood techniques), the species can be handled in forest nurseries, and growth rates are satisfactory. Kauri can be grown as specimen trees in Invercargill 1,000 miles to the south of its natural range. Their growth rates exceed those shown by rimu on sites of optimum quality. Under management in the north it should certainly prove possible to grow kauri on a rotation not exceeding 200 years for the production of logs to 36 in. in diameter. Many minor details in connection with its silviculture remain for solution, but successful domestication of this valuable timber tree can confidently be anticipated.

Production of sawn timber has fallen to about 1,000,000 board feet per annum, of which the major proportion of first-quality timber is used for boat building. Its rapid decline has emphasized the remarkable versatility of a timber whose capacity to yield long clear widths of heart quality has been a byword in world timber. The light yellowish-brown, lustrous heartwood, averaging 36 lb. per cubic foot air-dry, is straight-grained, strong, easily worked and finished, even-textured, remarkably stable and durable under most existing conditions. It is used in vats for acids, tanning, and bleaching, in textile-mill machinery, laundry appliances, butter churns, printers' blocks, and sink benches. A wide range of general uses in building, furniture, bridge, boat, and ship construction has absorbed the other grades "Medium" and "Seconds" (containing sapwood) as well as "Rough Heart" and "Shaky Heart."

MATAI or **BLACK PINE** (*Podocarpus spicata*). This tree, resembling a hardwood in form though possessing yellowish foliage, occurs throughout New Zealand. In the south its distribution is strictly discontinuous and it occurs as solitary trees or in small stands scattered throughout the rimu forests, the lowland beech forests, and even the eastern grasslands. Here it possesses all the characteristics of

a true resin species. Growth rates are very slow (50 or more rings to the inch), regeneration is rare even on exceptionally favourable sites, the trees are normally of great age (in some stands all exceed 800 to 1,000 years), and the degree of stunting and malformation increases from north to south. The major matai forests lie in the central portions of the North Island where they are trees of better form, total height to 80 ft. (averaging 60 ft.), diameters breast height to 60 in. (averaging 20 to 30 in.), growth rates are better (though seldom exceeding 1/10 in. per annum), and the dominants are younger. But even here regeneration is normally sparse to wanting. Matai forest soils are very fertile agricultural soils and are in demand for farming. Sustained yield management is possible only on restricted special quality sites in the north.

The narrow white sapwood band is clearly demarcated from the straw-coloured heartwood, and boards which are partly or wholly sapwood are used principally for flooring (preservative treated), tallow casks, and similar containers. Heart timber, averaging 38 lb. per cubic foot air-dry, has outstanding qualities of being both hard- and even-wearing, durable and dimensionally stable, which make it one of the best flooring timbers in the world for industrial as well as for domestic use; the same properties commend it for decking and sills. Other building uses include weatherboarding, framing timbers, and plywood. Reject logs provide excellent firewood.

MIRO (*Podocarpus ferrugineus*). Miru is found in close association with rimu throughout the entire range of the latter. It seldom, however, achieves co-dominance and very rarely and locally attains dominance. In comparison with the other major podocarps it is a small tree usually less than 70 ft. in height and 36 in. in diameter (averaging 24 in.). In contrast to the cupressoid foliage of kahikatea and rimu, the miru foliage is of the new type. The large bright-red droops are borne regularly and in abundance and are widely distributed by birds. Seedling miru are normally abundant throughout the forests but saplings are rare. Some, as yet unknown, factor prevents survival and satisfactory growth. Growth rates are extremely slow even in comparison with rimu, and it is most unlikely that miru will ever prove a species of commercial significance in managed forests.

This timber resembles rimu in appearance, in the differentiation of three zones in the log (heartwood, intermediate zone, and sapwood), in many of its major properties, grading and uses, and is moreover marketed as rimu in many localities. Miru is stronger and harder than rimu, and is somewhat more liable to warp when handled carelessly.

RMU or **RED PINE** (*Dacrydium cupressinum*). This, the principal timber tree of New Zealand, is likewise the most widely distributed, occurring in quantity from the Northland kauri region south to Stewart Island. It is present in all lowland beech forests and is the dominant tree over wide areas in the North Island and in Westland, though absent from high altitude forests and rare or local over the central eastern portions of the South Island. It is a tall tree up to 100 ft. in height, producing logs 70 ft. or more in length with breast height diameters up to 60 or 70 in., though these dimensions are reached more frequently in the north than in the south, and in the hill country forests rather than on the coastal plains. Despite its abundance, however, rimu has proved, silviculturally, a most recalcitrant species. In the hill forests, most noticeably in the south, there has been no significant regeneration for several centuries, and rimu on such sites appears to be definitely a relic species. Growth rates are very slow. Many of the larger trees exceed 700 years in age, while annual diameter increments, even on the best sites, of 1/10 to 1/8 in. are rarely exceeded. Growth is equally slow in the coastal forests where the sparse regeneration obtained after logging is frequently impeded by rising groundwater levels, a consequence of logging. Artificial re-forestation with rimu is rendered abortive by the high cost of collection of the solitary seeds placed about the tips of the terminal twigs, by the dioecious habit of the species, by uncertain germination coupled with slow growth of the seedlings and heavy mortality on transplantation, and by the heavy growth of weed species that develops following logging. Rimu may be maintained indefinitely as a minor constituent of certain lowland beech forests or on select sites in the north of the Northland, but elsewhere the rimu forests are probably a non-renewable resource.

Current high production of rimu timber cannot be sustained for many years, and it is necessary to direct available supplies into those uses in which its properties and grades are used to best advantage. The timber possesses the qualities of even texture, medium density (averaging 37 lb. per cubic foot air-dry), good seasoning, machining, finishing, and pointing qualities, and moderate strength and hardness. The light brown sapwood and intermediate zone may be preservative-treated to impart durability; heartwood is moderately durable, dimensionally stable, and often is highly figured. Building construction (practically all components), furniture, and plywood use the bulk of available supplies.

TOTARA (*P. totara* and *P. hallii*). These closely related species which hybridize freely are both widely distributed though in very different fashions. The distribution of *P. totara*, a tall massive tree with thick fibrous bark, up to 100 ft. in height (average 80 ft.) and up to 80 in. in diameter (average 30 to 40 in.), parallels that of matai and, like matai, it is stunted and malformed in the south. *P. hallii*, a much smaller tree with thin papery bark, is more widely distributed and occurs in both lowland and alpine podocarp and beech forests. In high altitude forests it is frequently no more than a shrub. Growth rates are slow, particularly in the south, though regeneration occurs more abundantly for *P. hallii* than for *P. totara*, than for matai. Such regeneration, however, is seldom of good form. Remarks on the silvicultural potential of matai apply to *P. totara*, though prospects are somewhat brighter by virtue of free regeneration and faster growth (up to 1/5 in. per annum). *P. hallii* is strictly a minor species of limited commercial importance, though recent growth-rate figures for this colder climate species when grown in the north show some small promise.

Brownish-pink heartwood is readily distinguished from the pale brown sapwood; the latter is regarded as more durable than sapwood of other indigenous softwoods and suitable without preservative treatment for a wide range of uses in building construction where its relative softness and brittle nature are not restrictive. The latter properties too are virtually the only disadvantages of heart totara which is light (averaging 30 lb. per cubic foot air-dry), easily worked, straight-grained, dimensionally stable, free from warping, and of outstanding durability under the most adverse conditions, in poles, posts, sleepers, and wharf piles. High-grade stock today is required primarily for exterior joinery, while reject logs continue to supply fence posts.

Exotic Softwoods.—**DOUGLAS FIR** (*Pseudotsuga taxifolia*). This was introduced in the early days of settlement from the Pacific coast of Canada and the United States of America, where it forms very extensive forests both pure and in mixture with other species. Trees, when growing rapidly, are pyramidal in shape and with very dense, fragrant foliage on numerous, smallish branches. In the best of the Pacific coast forests they reach immense sizes of 300 ft. in height and 40 ft. in girth. The species has been a highly successful introduction, but in New Zealand plantations are to be seen along the foothills of Canterbury. Forest Service plantings date back to 1900, although large areas were not established until 1921–30. In all, over 40,000 acres have now been planted in State forests as well as several thousand acres in private, company, and municipal plantations. The forests are successful and healthy from the Rotorua district to Southland, and at altitudes under 1,000 ft. in the south and up to 2,000 ft. in the north. The species grows in a wide range of soils, provided that they are well drained. It is a tree of hill country, and seldom does well on flats and plains; in general it prefers shady slopes. It will grow well in areas of moderately high rainfall, but cannot stand severe frosts.

Plantations put on large volume increments and yield profitable early thinnings for poles and posts. On good-quality sites a height of 80 ft. can be attained in 30 years and a volume of 9,000 cubic feet to a 4 in. top. Only locally collected seed is now used for raising seedlings. In many areas trees or plantations will through dense regeneration. To produce quality timber and maximum profit, rotations will be at least 60 and probably 80 years or more.

The inherent features of locally-grown Douglas fir are not dissimilar from those characterising the species as grown in its native habitat. Heartwood is formed at a relatively early age, pinkish-brown in colour, with the distinctive Douglas fir smell, and having moderate durability, including resistance to insect borers, in buildings. Sapwood is white. Growth rings are prominent with dense latewood bands contrasting with the more open-texture earlywood zones. In general, a high proportion of latewood in the growth rings is indicative of the higher density timber preferred for framing and structural timbers for building; on the other hand a low latewood percentage indicates light timber easily nailed and presenting fewer painting difficulties. The density range is from 27 lb. to 36 lb. per cubic foot air-dry. Thinnings are suitable after preservative treatment for use as poles and posts.

EUROPEAN LARCH (*Larix decidua*)—This tree, one of the few deciduous conifers, is a native of Central Europe. The main New Zealand plantings were made during the years 1900–15; the area established to date totals 7 900 acres, of which 5 460 are located in the North Island and 2 440 in the South Island. Best growth has been obtained on sheltered easy hill slopes at fairly low altitudes and on soils which are deep, well aerated, and moist. On such sites the root system is strongly developed and the bole is tall, clean, and tapering. Exposure to strong winds leads to the development of bare butts. By the age of 30 years heights of 70 ft. have been attained and volumes per acre are estimated to be approximately 4 000 cubic feet. Seed cones are sparse and fertile seed is not borne until about the age of 25 years. Early plantings were made from stock raised from Switzerland, but now sufficiently mature stands are available from which to collect all requirements; one pound of seed produces in the nursery about 18 000 seedlings. Fortunately stands have escaped the serious diseases to which this species is subject in Europe. Being a strong light-demander, larch thinnings early and frequent thinnings are likely to be profitable. Only after a thinning that has been too long delayed has wind-throw occurred; otherwise the tree has shown itself to be wind-firm. Rotations will be 70 years or more. The tree never grows to a large diameter, but has characteristically small branches which die early, and can be readily cleared; knot-free timber can thus be produced.

The small diameter logs available at present have been used after preservative treatment, mainly as natural round poles, props, and posts, for which purposes their good strength and form are realized to advantage. Natural rounds without treatment are also used for mine props, rails, and rustic work. Sapwood is light in colour, narrow and clearly defined; heartwood is reddish-brown to light greenish-brown in colour and moderately durable. The timber is of medium density (averaging 35 lb. per cubic foot air-dry), strong and tough, and hence is very suitable for framing in buildings, for gates and other farm timber, and for scaffold planks. The well-defined growth rings with dense latewood present a painting problem, and floors subject to heavy wear tend to wear unevenly.

CORSICAN PINE (*Pinus laricio*)—This tree, native of southern Europe, has adapted itself well to New Zealand conditions. Successful plantations have been established as far north as Waipoua and as far south as the Invercargill district, and from sea level to altitudes up to 2 500 ft. The species has not proved exacting as to soil requirements, although the best stands are at lower altitudes on deep well-drained soils varying in texture from sands to clays. Plantations do not thin themselves naturally, so that early thinnings are imperative if stagnation is to be avoided. Unthinned stands become very liable to wind-throw from an age of 45 years onwards.

Growth rates are slow as compared with radiata pine, but are rapid in comparison with European standards for Corsican pine. The rotation in New Zealand is likely to be 60 to 80 years. Because of the wide variation in tree types which exist, special care must be taken in the selection of elite seed trees. In some localities there is promise of successful regeneration.

No stands have yet been clear-felled, but thinnings have been fully utilized.

Knowledge of this timber is limited mainly to small diameter logs of which the largest are sawn and others used for poles and posts after preservative treatment. Available logs contain only a small core of pink heartwood, and resinous pink knots contrasting with the creamy white sapwood. The timber is slightly denser and harder than radiata pine (averaging about 31 lb. per cubic foot air-dry), generally similar in strength properties, seasoning, machining, and finishing, and very susceptible to sapstain disfigurement during seasoning in both boards and natural round products. Pith is relatively insignificant, knots are smaller and more closely spaced than in radiata pine and the density variation within the log is less. Light and dark bands (earlywood and latewood) in the closely-spaced growth rings do not appear seriously to affect joint adhesion in weatherboards or wearing qualities in flooring, for which the timber is mainly used.

RADIATA PINE (*Pinus radiata*)—Almost confined in its natural state to the limited area of the Monterey Peninsula in California it has become a truly remarkable tree for its successful introduction into Southern Hemisphere countries and its widespread use for afforestation. In New Zealand it has been the mainstay of all planting, both on farms and in plantations, and about 500 000 acres have been established with it, or over 60 per cent of the acreage of all species planted. The present cut of timber is almost equal to that of rimu, hitherto the most important indigenous building timber, and in the near future radiata pine will be by far the most important timber. It was introduced by the settlers in the early "sixties" and planted mainly for shelter.

By the 1920's its potentialities for afforestation were obvious and it was the species used mainly in the planting of the large areas of pumice country in the "boom" period 1925–30. The central North Island is now its stronghold, but it is grown throughout the length and breadth of the country, though it fares poorly in Northland and on the wind-swept shingle plains of Canterbury. It does well on a wide range of soil types, at altitudes from sea level to 2 000 ft. and in rainfall varying from 30 in. to 70 in. per annum. The best stands are in the Roturua, Nelson, and Tapanui districts, and in sand dunes. Individual trees vary greatly in form, vigour, and in such botanical characteristics as size and shape of cones. The most remarkable feature of the species is its fast rate of growth; on good sites it will reach a height of 130 ft. in 30 years, and in the same period will commonly yield 50 000 board feet of sawn timber to the acre. Diameter growth is equally rapid and annual rings up to 1 in. wide are frequently seen.

Early in the life of stands, dominant trees take the lead and there is a continuous natural thinning so that stands do not stagnate. Seed is produced early and most of it is retained in the thick woody cones that stay on the trees. Natural regeneration usually follows clear-felling and is prolific after fires. Untended stands in the pumice country have been attacked by *Sirex noctilio*, in places severely. The insects *Hylastes ater* and *Tortrix* moth, and the fungi *Armillaria mellea* and *Phomopsis*, also attack the species under certain conditions.

The inherent properties of the bulk of sawn timber produced from radiata pine are sufficiently good to justify confidence in the suitability of the timber for a very wide range of uses in building construction, provided that it is properly graded, protected from sapstain disfigurement during seasoning (by chemical dipping or kiln-drying green off the saw), and preservative-treated where a decay hazard may arise in service. In other parts of buildings where the timber is erected after thorough seasoning and remains dry in service, preservative treatment is unnecessary. Sapwood timber is creamy-white, light (average about 28 lb. per cubic foot air-dry), easily dried, machined, and finished, and strong to its weight; there is little heartwood present in logs from 25 to 30 year old trees. Knots, only slightly darker than the rest of the wood, are the main defects; there are long lengths of clear timber between whorls of knots in many logs. Boards containing widely-separated large defects find a logical use in furniture and interior joinery for the "clear cuttings" which they will yield with minimum waste; other boards with smaller dispersed defects are preferred for flooring and weatherboarding. Growth rings are characteristically broad with a gradual rather than an abrupt change from the earlywood to the denser latewood in each ring. In machining and finishing, and in wearing (in service), the timber is largely free from troubles associated with more uneven and textured woods. Nevertheless there is a slight tendency for the customary paint coats on weatherboards showing a prominent "slash-grain" to be eroded away from the latewood bands; special priming treatments to counteract this feature and also the knots are being studied. The pith, in itself a significant defect, and a core of low density wood surrounding it, are taken account of, especially in members graded for strength. Apart from building uses, large quantities of timber are absorbed by boxes and crates, concrete bines, core-boards and door cores, and a growing export trade. Pulping industries are using increasing quantities of small diameter material which is suitable for both groundwood and chemical pulps for paper and is well as fibreboard and container board manufacture. Vencer production from selected logs is growing also.

LODGEPOLE PINE (*Pinus murrawarra*)—Lodgepole pine comes from the inland montane regions of Canada and the United States of America where pure forests of the species extend over large areas. It has a wide range of geographical races, several of which have been introduced into New Zealand. It has been used by the Forest Service mainly for the afforestation of high, cold plateau country in the centre of the North Island. Over 16 000 acres have been planted, the greater part between 1926 and 1932. The species is hardy and frost resistant, and can be grown at a higher altitude than any other exotic pine in New Zealand. The best races develop well and indicate that the species has a place in New Zealand forest practice, provided that seed selection is carefully done. Poor races on the other hand produce stunted and excessively branched trees which are unlikely to produce commercial timber. The tree never grows to large diameters and may find its best use in pulpwood. Lodgepole pine is a remarkably early and prolific seeder, and it regenerates profusely; it is in fact already tending to colonize parts of the tussock country of the central North Island. These characteristics may lead to its being grown for protection rather than production purposes.

The characteristics of the timber from local sources are as yet imperfectly known, as production is very small and limited to one or two localities. Timber sawn in North Canterbury has more clearly defined growth rings and latewood bands than radiata pine, more closely-spaced growth rings due to its slower growth, and carries a significant proportion of heartwood distinguished from the creamy-white sapwood by its light pinkish-brown colour and distinctive smell. Pith is insignificant and knots are smaller, light brown in colour, and more dispersed than in radiata pine. The timber appears in general to be slightly denser and harder than radiata pine, but comments on the grading, seasoning, preservation and uses of the latter are a satisfactory guide to procedure with lodgepole pine.

PONDEROSA PINE (*Pinus ponderosa*)—Ponderosa pine comes from the drier montane areas of western Canada and the United States of America. It is there a composite species comprising a number of geographical races which differ greatly in form and vigour and which extend over a wide area and range of conditions. In New Zealand the tree has been planted on a large scale, both by the Forest Service and by afforestation companies, and on an area basis it is second in importance only to radiata pine. Being a hardy species its main use has been in the afforestation of difficult sites, particularly the "frost flats" of the pumice country where climatic conditions are too severe to permit the establishment of radiata pine. Unfortunately, mainly poor races have been introduced and the ponderosa forests are therefore not of high quality. Some small-scale early plantings were from good races and these now show the possible value of the species. The tree will do well on poor soils and in climates characterized by low rainfalls and cold frosty winters. It grows slowly except on the best sites, and it will require a long rotation to produce mature high-quality timber. Early thinnings have not been profitable. Ponderosa pine in New Zealand is generally healthy but it has shown some susceptibility to *Sirex noctilio*, *Hylastes ater*, and *Tortrix* moths. It does not seed early in life and natural regeneration as yet is almost non-existent.

It is impracticable to give a complete picture of properties and uses as the sawn production to date is small. Timber examined is generally of lower density and slightly weaker than radiata pine, but this may be counter-balanced in graded framing timber by the knots being smaller and more dispersed. The indicated disability of low density core timber with associated low strength and a warping tendency will require attention in grading. Heartwood forms an insignificant proportion of the small-diameter logs which have so far been sawn. Sapwood is whitish and growth rings are not well-defined.

Principal Strength Properties of New Zealand Timbers.—The following table shows the principal strength properties of New Zealand timbers, both indigenous and exotic species.—The test samples were in the form of small clear specimens, the air-dry values being adjusted to 12 per cent moisture content. In two of the exotic species, Douglas fir and radiata pine, tests of timber from two different localities are shown.

Common and Botanical Name of Species	Condition at Test	Weight Per Cubic Foot (Pounds)	Modulus of Rupture in Bending (Pounds Per Square Inch)	Modulus of Elasticity in Bending (1,000 Pounds Per Square Inch)	Maximum Crushing Strength Parallel to Grain (Pounds Per Square Inch)	Shear Strength Parallel to Grain (Pounds Per Square Inch)
<i>Indigenous Species</i>						
Beech, black (<i>Nothofagus solandri</i>)	Green	69	9,400	1,750	4,300	1,280
	Air-dry	49	14,500	1,980	8,300	1,870
Beech, hard (<i>Nothofagus truncata</i>)	Green	69	10,300	1,870	4,600	1,420
	Air-dry	48	13,700	2,100	7,000	1,980
Beech, red (<i>Nothofagus fusca</i>)	Green	61	9,100	1,720	3,900	1,260
	Air-dry	44	11,400	1,930	7,600	1,850
Beech, silver (<i>Nothofagus menziesii</i>)	Green	55	7,600	1,280	3,400	940
	Air-dry	34	12,200	1,670	6,100	1,420
Black maire (<i>Olea oenanthifolia</i>)	Green	75	13,050	1,550	6,000	1,810
	Air-dry	62	17,000	2,020	9,600	2,360
Hinau (<i>Elaeocarpus dentatus</i>)	Green	70	81,800	1,590	4,300	1,380

Common and Botanical Name of Species	Condition at Test	Weight Per Cubic Foot (Pounds)	Modulus of Rupture in Bending (Pounds Per Square Inch)	Modulus of Elasticity in Bending (1,000 Pounds Per Square Inch)	Maximum Crushing Strength Parallel to Grain (Pounds Per Square Inch)	Shear Strength Parallel to Grain (Pounds Per Square Inch)
<i>Indigenous Species</i>						
Kahikatea or white pine (<i>Podocarpus</i>)	Green	51	6,300	960	2,500	810
<i>Jaarcyloides</i>	Air-dry	29	9,500	1,140	5,100	1,340
Kaikawaka (<i>Libocedrus bidwillii</i>)	Green	61	5,600	660	2,800	750
	Air-dry	27	6,400	870	4,100	820
Kamahi (<i>Weinmannia racemosa</i>)	Green	55	7,800	1,250	3,400	1,200
	Air-dry	40	10,800	1,420	5,800	1,920
Kauri (<i>Agathis australis</i>)	Green	51	7,800	1,570	3,400	940
	Air-dry	36	13,100	1,890	5,600	1,220
Kohokohe (<i>Dysoxylum spectabile</i>)	Green	57	7,300	1,290	3,100	790
	Air-dry	34	10,900	1,400	7,100	840
Mangao (<i>Libaea calicaris</i>)	Green	62	7,600	1,330	3,300	1,030
	Air-dry	39	13,300	1,620	6,600	1,560
Matai (<i>Podocarpus spicatus</i>)	Green	68	9,000	1,230	4,000	1,000
	Air-dry	38	10,800	1,320	6,800	1,600
Miro (<i>Podocarpus ferrugineus</i>)	Green	54	8,400	1,420	3,800	1,150
	Air-dry	36	12,900	1,570	6,600	1,690
Pokaka (<i>Elaeocarpus hookerianus</i>)	Green	65	6,200	1,000	3,200	1,260
	Air-dry	39	10,000	1,100	5,500	1,730
Pikatea (<i>Laurelia novae-zealandiae</i>)	Green	61	4,200	730	2,500	580
	Air-dry	30	11,800	1,700	4,900	1,080
Rata, Northern (<i>Metrosideros robusta</i>)	Green	72	11,300	1,710	5,200	1,610
	Air-dry	55	18,200	2,340	9,200	1,940
Rata, Southern (<i>Metrosideros lucida</i>)	Green	79	13,000	2,150	5,800	1,640
	Air-dry	71	23,000	3,150	11,500	2,570
Rimu (<i>Dacrydium cupressinum</i>)	Green	61	7,400	1,220	3,300	910
	Air-dry	37	11,000	1,310	5,400	1,260
Silver-pine (<i>Dacrydium colensoi</i>)	Green	54	6,400	790	3,100	840
	Air-dry	39	8,500	1,070	5,800	1,320
Taraire (<i>Beilschmedia taraire</i>)	Green	72	8,600	1,410	3,900	1,000
	Air-dry	42	13,000	1,790	6,600	1,910
Tanekaha (<i>Phyllocladus trichomanes</i>)	Green	68	9,300	1,390	4,600	1,210
	Air-dry	42	14,100	1,620	6,500	1,490
Tawa (<i>Beilschmedia tawa</i>)	Green	67	9,700	1,590	4,400	1,100
	Air-dry	46	15,700	2,060	8,400	1,780
Totara (<i>Podocarpus totara</i>)	Green	59	6,500	920	3,100	810
	Air-dry	30	7,600	1,070	5,500	1,120
<i>Exotic Species</i>						
Douglas fir (<i>Pseudotsuga taxifolia</i>), Mac @ @	Green	36	6,300	1,100	2,800	830
	Air-dry	27	9,050	1,260	4,900	1,220
Douglas fir (<i>Pseudotsuga taxifolia</i>), Marlborough County	Green	39	8,000	1,210	3,800	1,030
	Air-dry	36	13,400	2,000	6,600	1,340
Radiata pine (<i>Pinus radiata</i>), Roturua County	Green	58	5,900	1,060	2,600	870
	Air-dry	28	11,200	1,340	5,600	1,550
Radiata pine (<i>Pinus radiata</i>), New Brighton	Green	51	6,100	910	2,800	1,060
	Air-dry	31	9,300	1,060	4,200	1,370
Macrocarpa (<i>Cupressus macrocarpa</i>), Tuapeka County	Green	50	8,000	970	3,800	1,010
	Air-dry	31	10,900	1,180	5,900	1,620
Larch (<i>Larix decidua</i>), Roturua County	Green	41	7,500	1,320	3,200	830
	Air-dry	35	13,500	1,740	7,100	2,060

Chapter 22. SECTION 22—FISHERIES

Table of Contents

GENERAL.—The principal characteristics of New Zealand's fisheries are the great length of the coast line, extensive natural harbours, numerous sheltered bays, and narrow continental shelf. Off its more northerly coasts, which come within the influence of the south equatorial current, a rich variety of subtropical fish is found, as exemplified by such species as the flying fish, the sunfish, the swordfish, and several shark species. On the other hand, its southern coasts, washed by the Antarctic drift, are the natural haunt of the fur-bearing seal, and yield varieties of fish which are characteristic of cold-water conditions.

Of the many kinds of excellent edible fishes the most important are the snapper (*Pagrosomus auratus*), which is the principal species in the catch (mainly by trawl) in the north-western part of the South Island, the west coast of the North Island, and the east coast of the North Island to just south of East Cape; next in importance is tarakihi (*Dactylopagrus macropodus*), which is taken mainly by trawlers working off the east coast of the North Island and in smaller quantities off the west coast of the South Island. The groper or hapuku (*Polyprion oxyenoides*) is caught on the lines in the deeper water from North Cape to Stewart Island, but principally in Cook Strait and on the rocky parts of the east coast of the South Island, while the blue cod (*Parapercis colalis*) is the staple line-caught product of the southern line fisheries, particularly about Foveaux Strait and Stewart Island.

The flounder and sole (*Pleuronectidae*) occur in the more shallow and sheltered waters.

The most productive grounds are in relatively shallow water, and, except for groper and ling, fished for by means of deep long lines, most of the fishing is carried on at depths of less than 40 fathoms. Depths of over 100 fathoms occur at a comparatively short distance from the coast, and up to the present it is not known to what extent these deeper waters may be productive of marketable fishes. The principal methods of fishing are long-lining for groper (hapuku), ling, "hake" or "kingfish," and snapper; hand-lining for blue cod; trawling and Danish seining, by which flounders, snapper, tarakihi, gurnard, john-dory, and a variety of other fish are taken. In bays and estuaries set-nets are used for flounders, snapper, and mullet, and seines are also employed principally for the capture of flat fish and snapper. Sardines or pilchards (*Sardinia neophidaria*) and other species of the herring family are known to occur in large shoals off some parts of the coast from time to time. There is no regular fishery for these kinds except where they have been periodically netted for bait in the Marlborough Sounds by Cook Strait fishermen. Attempts to commercialize these fish have been unsuccessful mainly because their appearances proved extremely irregular and inadequate in quantity.

In order to ascertain the economic position of the fishing industry an investigation committee was set up, under the Board of Trade Act, in 1937. This committee conducted exhaustive inquiries into all aspects of the industry, and reference to the committee's report (parliamentary paper H-44A, 1937-38) will give detailed information as to the conditions under which the industry then operated.

The fishing industry—that is, "the taking of fish and shell fish for sale"—came wholly under the control of the Marine Department by virtue of the Fisheries Amendment Act 1945, which provides that any boat used in fishing for purposes of sale must be registered, and that the owner of such a boat must be the holder of a licence authorizing the boat to be so used. In addition, any person employed on a fishing boat except as an engineer engaged wholly in connection with the propelling machinery, or wholly as a fireman, or as a cook, must be the holder of a crew licence.

The principal regulations dealing with fisheries are set out hereunder. Two comprehensive series are the Fisheries (General) Regulations 1950 and the Fresh Water Fisheries Regulations 1951. Under the latter are issued a number of modification notices which deal with particular aspects—e.g., permissible length of different classes of fish to be taken—while the various acclimatization societies' rules are issued under the authority of these regulations. The Sea Fisheries (Boats and Licences) Regulations 1951, the Oyster Fishing Regulations 1946, and the Whitebait Fishing Regulations 1951 are directly relevant to the fishing industry. Other regulations include the Seal Fisheries Regulations 1946, the Quinnet Salmon Regulations 1940, the Fish-pass Regulations 1947, and the Tokerau Regulations 1946.

STATISTICS OF FISHERIES.—Commencing with the year 1944, the Marine Department adopted the calendar year as a standard for the expression of statistics of fisheries in place of the year ended 31 March formerly in use.

Of the 1,422 licensed boats operating during 1952 those vessels whose income was over £200 totalled 672, compared with 642 in 1951. The number of persons employed on these boats was 1,380, as compared with 1,338 in the preceding year.

The estimated total quantity and value of the principal classes of fishery products marketed in the years 1951 and 1952 were as follows.

—	Unit	Quantity		Value	
		1951	1952	1951	1952
				£	£
Wet fish	Cwt.	408,365	408,858	949,551	1,079,099
Whitebait (West Coast, South Island, only)	Cwt.	1,301	1,998	29,160	50,343
Oysters (dredged)	Sacks	90,630	93,676	104,224	121,779
Oysters (rock)	Sacks	4,220	5,001	11,077	13,015
Mussels	Sacks	16,271	18,457	6,624	8,502
Crayfish	Cwt.	55,658	65,286	216,854	329,323
Whale oil	Tons	710	800	38,500	40,000
Fish livers	lb.	751,087	800,303	34,425	36,680
Total value				1,990,415	1,678,741

In the most important group, the "wet fish"—i.e., all the ordinary fishes caught by all methods of sea fishing—the annual totals for successive years were as follows.

Year	Quantity		Year	Quantity	
	Cwt.	£		Cwt.	£
1937-38	355,687	813,516	1945	331,773	558,404
1938-39	356,114	824,643	1946	380,321	660,096
1939-40	339,231	816,480	1947	438,300	802,496
1940-41	328,594	840,308	1948	446,265	838,334
1941-42	326,863	858,393	1949	449,903	864,332
1942-43	311,971	842,976	1950	440,179	918,051
1943-44	294,445	889,268	1951	408,365	949,551
1944	308,217	822,954	1952	408,858	1,079,099

The peak production year for wet fish was 1949, and since then there has been a progressive decrease in the total quantity produced. The slight decrease in 1950 was the first real indication that the grounds were not still responding to the increased fishing effort built up in the post-war years. With the waterfront strike in the early part of 1951, once the freezers were full the boats in some cases were put on limits. This contributed to some loss of production, but analysis of the returns indicates that only a small part of the very marked decrease can be assigned to this cause. The 1952 production was only very slightly in excess of the 1951 quantity.

Kind or Class of Wet Fish Caught.—The following table shows the quantity and value of each kind of wet fish caught during 1952.

Kind or Class of Fish	Quantity		Value
	Cwt.	£	
Tarakahi	118,675	263,128	
Snapper	97,320	222,759	
Gurnard	32,457	52,846	
Blue cod	31,378	88,605	
Hapaku (proper)	28,157	123,294	
Sole	20,942	110,990	
Flounder	12,871	84,613	
Elephant fish	8,945	30,492	
Trevally	8,789	10,478	
Pioke	7,327	11,789	
Ling	6,996	19,443	
Barracouta	6,192	3,868	
Moki	5,914	13,085	
Red cod	3,522	5,107	
Shark	3,516	4,956	
Mixed rounds	3,281	1,468	
Mullet	2,689	6,738	
Hake	1,752	7,195	
John dory	1,744	4,444	
Butterfish	1,308	5,778	
Kingfish	791	1,271	
Whiting	759	914	
Kahawai	659	682	
Whipitai	523	582	
Parure	387	489	
Wardoon	342	684	
Herring	279	435	
Mackerel	252	198	
Trumpeter	213	571	
Monkfish	185	371	
Sardine	178	214	
Brill	160	863	
Garfish	131	582	
Creamfish	121	91	
Skate	46	35	
Perech	39	27	

Kind or Class of Fish	Quantity	Value
Conger	34	34
Maomao	3	9
Frostfish	1	1
Totals	408,858	1,079,099

The quantity of tarakahi caught represents an increase of 8,171 cwt. over the 1951 figure, while snapper, the second most important class of fish, recorded a decrease of 11,118 cwt.

Methods of Capture.—A table showing the total quantity of wet fish caught in 1952 by each of the common methods of fishing is shown below, with the figures for 1951 included for comparative purposes.

Method of Fishing	Quantity		Percentage of Total Quantity	
	1951	1952	1951	1952
	Cwt.	Cwt.	Per Cent	Per Cent
Trawl	262,641	274,120	64.32	67.04
Danish seine	27,723	25,976	6.79	6.35
Long and hand lines	88,157	82,575	21.58	20.20
Set and drag nets	29,844	26,187	7.31	6.61
Totals	408,365	408,858	100.00	100.00

The steam trawlers landed a total catch of 56,303 cwt. (13.8 per cent), while motor trawlers landed 217,817 cwt. (53.3 per cent).

The quantity caught by Danish-seine boats continues to decrease as more of these boats are forced by high costs and short life of gear, coupled with poor returns, to change to either trawling or line fishing.

Landings at Ports.—Ports where the total landed catch was in excess of 10,000 cwt. are shown in order of importance in the next table. The percentage of the grand total is also included.

Port	Quantity		Percentage of Total Quantity		Value		Percentage of Total Value	
	1951	1952	1951	1952	1951	1952	1951	1952
	Cwt.	Cwt.	Per Cent	Per Cent	£	£	Per Cent	Per Cent
Auckland	111,399	112,626	27.28	27.21	192,001	224,378	20.22	20.79
Wellington	45,560	55,282	11.16	13.52	119,915	147,325	12.62	13.66
Port Chalmers	34,594	31,968	8.47	7.81	68,034	84,070	7.16	7.79
Napier	23,739	24,574	5.81	6.01	49,044	54,116	5.16	5.01
Timaru	25,479	24,365	6.24	5.96	82,721	89,672	8.71	8.31
Bluff and Stewart Island	17,640	17,567	4.31	4.30	56,200	59,087	5.92	5.47
Lyttelton	15,942	14,509	3.90	3.55	48,590	52,450	5.12	4.86
Nelson	14,253	13,900	3.49	3.39	26,928	31,505	2.83	2.92
Gisborne	15,814	13,666	3.87	3.34	29,141	29,433	3.10	2.73
Chatham Islands	10,096	11,366	2.47	2.77	13,672	16,388	1.43	1.52
Thames	17,721	11,212	4.34	2.74	41,567	37,494	4.37	3.47
Tauranga	11,033	10,369	2.70	2.53	18,512	19,243	1.94	1.78

The quantity of fish landed at these ports totalled 341,404 cwt., which was 83.5 per cent of the total catch.

Exports.—The totals for the principal classes of fishery products exported during the last three years are given below.

Exports	Unit	Quantity			Value		
		1950	1951	1952	1950	1951	1952
					£	£	£
Oysters, fresh	Doz.	630	400		35	24	
Oysters, frozen	Cwt.		11	220		196	4,089
Mussels	Cwt.	73	112	54	531	878	567
Fish, frozen	Cwt.	60,958	40,910	49,770	375,761	283,596	387,787
Crayfish, frozen	Cwt.	11,814	16,407	17,505	199,930	370,199	480,806
Fish, smoked, dried	Cwt.	615	486	421	3,913	3,641	4,322
Fish and shellfish, canned	lb.	291,188	253,400	190,245	34,191	32,850	24,932
Total value					614,361	691,384	902,503

Fish-liver Oil.—There was an increase of 49,216 lb. in quantity of fish livers processed in 1952 and an increase of 4,272 gallons in the quantity of fish-liver oil produced.

A total of 12,444 gallons of fish-liver oil was exported during 1952, as compared with 21,690 gallons during 1951, but it is pointed out that these figures include variable amounts of concentrate.

The total weight of livers treated and the quantity of oil produced in each of the last five years has been as follows.

Year	Weight of Livers Treated		Quantity of Oil Produced	
	lb.	Gallons	lb.	Gallons
1948	677,435	24,083		
1949	783,307	33,304		
1950	815,493	37,544		
1951	751,087	35,003		
1952	800,303	39,275		

OYSTER BEDS.—The principal oyster beds around the coast of New Zealand are those situated in Foveaux Strait, between South and Stewart Islands, and the rock-oyster beds on the east and west coasts of the Auckland peninsula.

In South Island waters a close season is observed from 1 October to 14 February and in North Island waters from 1 November to 30 April in each year. The taking of oysters is governed by the Oyster-fishing Regulations 1946, and vessels operating commercially are subject to the Sea-fisheries (Boats and Licences) Regulations 1951. During the 1952 season 93,676 sacks of oysters were dredged from Foveaux Strait, compared with 90,630 sacks in 1951.

The rock-oyster beds of Auckland were worked for many years under a variety of systems, but, owing to stripping of the beds, close seasons had frequently to be proclaimed. From 1908 the picking and wholesale marketing of rock oysters from the North Island beds has been undertaken by the State, private picking being prohibited.

Oyster-cultivation work is being systematically carried on by the Marine Department in the Hauraki Gulf, in the Bay of Islands, and in the Kaipara district.

Rock oysters picked and sold by the State in 1952 totalled 5,001 sacks, compared with 4,220 sacks in 1951.

CRAYFISH.—Marine crayfish occur off many parts of the New Zealand coast. Part of the catch of crayfish is sold in local markets for domestic consumption, part is exported as frozen crayfish tails and whole crays, while a small quantity is canned.

With the development of the export of frozen crayfish tails to the United States of America and the high price received for this product, the increase in the catch of crayfish has been phenomenal, but already some grounds are showing a reduced return for the gear worked. The catch of crayfish over the last five years is as follows.

Year	Quantity		Value
	Cwt.	£	
1948	26,724	63,272	

	Quantity	Value
1949	36,771	99,034
1950	52,482	69,138
1951	55,658	216,854
1952	65,286	329,323

WHALING—With the enormous development of pelagic whaling that has taken place in recent years the whaling industry in New Zealand has greatly declined from the important position which it occupied in the early days of the colony. Only one short station was in commercial operation during the 1952 whaling season. This station is situated in Tory Channel, Queen Charlotte Sound, and the season's catch in that area was 122 whales, this total being comprised of 121 humpbacks and 1 sei whale. The total oil production was 800 tons, while other products included 110 tons of bonedust.

The Whaling Industry Act 1935 was passed in order to give effect to an International Convention for the regulation of whaling and matters incidental thereto.

SEALS—The taking of seals in New Zealand waters has been on a restricted scale during the last fifty years, these animals being placed on the protected list in 1894. No sealing was then allowed until 1913, when there was an open season, but with certain restrictions. From 1916 a close season was observed until 1922, when the taking of seals was again permitted, but only till 1924, since when a close season was observed until 1946.

A short restricted open season was permitted during 1946 by the Seal Fisheries Regulations 1946, but a close season is again being observed.

BIG-GAME FISHING.—Swordfish (striped and black marlin, and occasionally broadbill), mako shark, and other big-game fish occur principally off the east coast of the Auckland Provincial District, and attract both New Zealand and visiting big-game fishermen. The principal centres for this sport are Whangaroa, Russell (Bay of Islands), Whitingaia (Mercury Bay), and Tauranga, where specially designed and equipped launches in charge of experienced men may be hired. The season lasts from December to May, the best months usually being February and March. The world's record black marlin swordfish (976 lb) was caught off the Bay of Islands in February 1926.

To preserve this very important fishery the Fisheries (General) Regulations 1947, superseded by the regulations of similar title issued in 1950, were gazetted prohibiting the taking of these fish by other than rods and line, and stipulating that the line was not to be heavier than "No. 30 linen thread line." In addition, a limit bag of not more than four fish per day has been imposed.

WHITEBAIT.—A fishery that is peculiar to New Zealand with regard both to the product and to the methods of operation, carried on from July to November in the tidal reaches of many rivers, is the whitebait fishery. New Zealand "whitebait" are the young of *Galaxias attenuatus*, a species that lives for the greater part of its adult life in fresh water, descending to tidal water to spawn in late summer and autumn. The spawn is deposited among grass and similar herbage on the margins of the rivers above the ordinary high-water mark in a zone that is submerged only at the highest spring tides. Here it remains under cover of the herbage and secure from aquatic enemies until it is once more reached by a spring tide about a fortnight or, it may be, a month later. The young then hatch out, and are carried by the ebb-tide to the sea. Here they remain until, at the age of about five months, the young fish, then about 2 in. long and still possessing the almost glassy transparency of the larval stage, migrate up the rivers in dense shoals. This is the time of the whitebait fishery, when they are caught in nets made of wire gauze or mosquito netting. The cultivation and drainage of riparian lands have considerably diminished the extent of spawning and feeding areas that were available in earlier times. From these causes, as well as from the intensity of the fishing operations, there are now few rivers where the runs of whitebait show anything like the abundance of former years. The most productive whitebait fisheries are near the mouths of the rivers of the West Coast of the South Island and in the lower reaches of the Waikato River. Normally the whitebait fishery gives employment to over three hundred regular fishermen, and a greater number of part-time fishers, and, over a period of years, produced an average of approximately 3,000 cwt. of whitebait. As a result of reasonably good seasons over a period of years, and with improved transport from the more remote rivers, in which aeroplanes have played an important part, a substantial whitebait industry has been developed, particularly on the West Coast of the South Island.

FRESH-WATER FISHERIES.—Native Fishes: Of fresh-water fishes indigenous to New Zealand the species of most commercial importance at the present time is *Galaxias attenuatus*, which provides the whitebait fishery already mentioned. Other species of *Galaxias* are known in the streams and lakes of the country. With the exception of the eels, which frequently attain an extraordinarily large size compared with those of the Northern Hemisphere, all the native fresh-water fishes are small, and are therefore not considered to possess any sporting value except to the most juvenile of anglers. There are two species of eels—*Anguilla australis*, the short-finned eel; and *Anguilla dieffenbachii*, formerly known as *Anguilla maculata*, the long-finned eel. Recent investigations by Marine Department biologists have thrown new light on their distribution. It is now known that all male eels remain in tidal and brackish waters; female long-finned eels are found throughout all accessible fresh waters, while female short-finned eels are restricted to the warmer, deeper, and slowly-flowing waters, and in the South Island are found only in the lower reaches of rivers and in coastal lakes. Eels constituted an important food supply to the Maoris, who devised very efficient traps for their capture as the adult eels migrated to the sea. This fishery is still carried on by the Maoris of some districts, and during recent years some commercial fishing has taken place for home markets and for export. So far as available supplies are concerned, there is scope for considerable development in connection with eel utilization in New Zealand.

The following list shows the definitely known genera of indigenous fresh-water fish and includes all the principal species.

Scientific Name	European Name	Maori Name	Usual Maximum Size
			Inches
<i>Galaxias attenuatus</i>	"Minnow"	Inanga	7
<i>Galaxias fasciatus</i>	Native trout or mountain trout	Kokopu	10
<i>Galaxias brevipinnis</i>	"Gudgeon"	Taiwharu or kokopu	6
<i>Galaxias huttoni</i>		Koaro	6
<i>Galaxias burrowsii</i>	Canterbury mudfish		5 to 6
<i>Neochanna apoda</i>	Mudfish	Hauhau or waikaka	8
<i>Retropinna retropinna</i>	Smelt	Parki	6
<i>Prototroctes oxyrhynchus</i>	Grayling	Upokororo	12
<i>Cheimarrichthys fosteri</i>	Torrent-fish or shark-bully	Papanoko	7
<i>Gobiomorphus gobioides</i>	Bully	Toitoi	6 Feet
<i>Anguilla australis</i>	Short-finned eel	Tuna	3 to 4
<i>Anguilla dieffenbachii (aucklandii)</i>	Long-finned eel	Tuna	4 to 5
<i>Geotria australis</i>	Lamprey	Koro-koro or kuna-kuna	2

The "minnow," smelt, grayling, and, of course, the eels and lamprey, are migratory fish which spend parts of their lives in the sea or in estuarine tidal waters, although at least one species of purely fresh-water smelt is known.

Acclimatized Fishes: Although most of the above-mentioned indigenous fishes—especially the eels, kokopu, and upokororo—provided an appreciable portion of the food supplies of the Maoris, and have been a welcome addition to the camp provisions of surveyors, bushmen, and prospectors since the pioneering days, there were many among the early settlers to whom the New Zealand rivers and lakes appeared uninteresting and unproductive in comparison with their native salmon and trout streams. By means of private agency in some cases, and by more organized efforts on the part of Government and local acclimatization societies, attempts to introduce British salmon and trout were commenced in the early "sixties." The brown trout was first established in 1867 by means of ova imported from Tasmania, where the species had been acclimatized a few years earlier from English stock. Importations of brown trout besides the Loch Leven and sea-trout varieties have been subsequently made, so that the species is now found in most of the fresh and tidal waters of New Zealand. Rainbow or steelhead trout, first introduced in 1883 from California, are also now widely distributed. In some lakes, notably Taupo and others in the Thermal Region, they have largely displaced the earlier brown-trout population. The American brook trout (*Salvelinus fontinalis*) was widely planted in the "seventies" and "eighties," but is now found only in a few back-country streams in the South. The Mackinaw trout, or Great American Lake trout, has been naturalized in Lake Pearson, Canterbury, since 1906. Quinnat salmon, introduced from California in the first five years of the present century, after earlier attempts had failed, are now firmly established, and "runs" of these salmon take place annually between January and June in the larger east coast rivers of the South Island. They have been taken in smaller and more variable numbers in a few rivers on the West coast and in the Wellington District. Sockeye salmon, imported at the same time, have given rise to a "land-locked" stock in Lake Ohau, no other runs examples of this species having yet been identified. The introduction of European Atlantic salmon was attempted at various times in the earlier years, and was finally achieved after 2,000,000 ova had been imported in 1910-12 from British and Continental rivers. The species is now established in the Waiau River system and associated lakes (especially Lake Te Anau) in Southland. It is remarkable that, although there is unimpeded access to the sea, the species has largely adopted "land-locked" habits, most of the fish remaining to feed in fresh water until and after they have reached maturity. Relatively small numbers, however, enter the Waiau from the sea.

Besides the above-mentioned members of the salmon and trout family, other species of fish from the Northern Hemisphere which have been acclimatized in New Zealand are the European perch, tench, and carp, the North American catfish (*Ameiurus catus*), and the small viviparous, *Gambusia paterulus* introduced about 1930 for its utility as a devourer of mosquito larvae.

With the exception of the Rotorua Acclimatization District in the thermal-lakes region and the Southern Lakes District in the South Island, which are under the control of the Department of Internal Affairs, the local administration and management of fresh-water fisheries are in the hands of acclimatization societies.

The Freshwater Fisheries Regulations 1951 contain provisions of general application with regard to limit bag, size limit, baits and lures, duration of season, etc. Such general regulations apply unless modification notices for particular districts are issued varying these limits.

A fishing licence, for which the fee for the season (opens 1 October and continues for seven months) is £2 in the North Island and £1 10s. in the South Island, enables the holder to fish for acclimatized fish in any part of New Zealand except the Rotorua Acclimatization District (which includes the Taupo Trout Fishing District) and the Southern Lakes Acclimatization District. For fishing in the Rotorua area and the Southern Lakes District the local licence fees are £2 and £1 10s. respectively for all male adults, but in the Taupo area of the Rotorua Acclimatization District, which is the most popular of all New Zealand angling resorts, the licence fees for the whole season are £1 10s. for residents in the area, £2 for other residents of New Zealand, and £6 for overseas visitors. For all acclimatization districts there is a reduced scale of licence fees for female and juvenile anglers. Monthly, weekly, and daily licences are also available, while half-season, weekend, and single-river licences are optional in some districts. The Taupo Trout Fishing (Special Season) Regulations 1954 provide for a special experimental open season from 1 June-31 October 1954 in the district.

The Fisheries Amendment Act 1953 provides for the establishment of fisheries experimental waters by Order in Council. In such cases the fresh water regulations applicable may be declared not to apply or to apply subject to modifications.

The same amendment also enables the Governor-General under certain conditions to dispense with a close season for trout and salmon in any one or more years or to fix a close season of less than five months' duration for all or part of the waters of the district concerned.

Chapter 23. SECTION 23—MINERALS AND MINERAL PRODUCTION

Table of Contents

THE law relating to mining and quarrying is contained in the Mining Act 1926, the Coal Mines Act 1925, the Coal Act 1948, the Petroleum Act 1937, the Quarries Act 1944, and the Atomic Energy Act 1945. There have been numerous amendments to these Acts, the most recent of which are the Mining Amendment Acts of 1947, 1948, and 1953, the Coal Mines Amendment Acts of 1949, 1950, and 1953, and the Quarries Amendment Act 1951. The Coal Mines Amendment Act of 1950 provides for the return to their previous owners of all coal and servitudes vested in the Crown by the Coal Act of 1948, but also ensures a greater measure of control of the working of privately-owned coal than that previously exercised. The Quarries Amendment Act 1951 removed open-pit coal workings from the provisions of the Coal Mines Act and brought them within the scope of the Quarries Act 1944.

MINERAL PRODUCTION.—The following statement shows the production of metals and minerals during 1951 and 1952.

Mineral	1951		1952	
	Quantity	Value	Quantity	Value
<i>Fuels</i>				
		£(N.Z.)		£(N.Z.)
Coal	2,435,505 tons	6,066,258	2,749,808 tons	6,870,893
Petroleum (crude)	185,710 gals.	6,779	302,870 gals.	12,619
<i>Metals</i>				
Gold	75,115 oz.	915,336	59,151 oz.	739,931
Silver	133,291 oz.	43,327	51,016 oz.	16,293
Platinum	8 oz.	96	4 oz.	61
Antimony ore			11 tons	179
Copper ore	478 tons	2,141		
Iron ore	2,496 tons	6,817	1,823 tons	3,565
Manganese ore	402 tons	1,869	319 tons	1,509
Tin ore	1.4 cwt.	56		
Tungsten ore	32 tons	53,538	57 tons	87,000
<i>Non-metals</i>				
Asbestos	813 tons	40,628	682 tons	33,860
Bentonite	430 tons	4,281	570 tons	4,783
Clay for bricks, tiles, etc.	173,333 tons	46,055	203,116 tons	51,493
Clay for pottery fillers, etc.	7,650 tons	6,525	3,271 tons	3,963
Diatomite	119 tons	177	204 tons	336
Dimension stone for building	6,011 tons	14,947	17,989 tons	21,554
Dolomite	982 tons	982	1,255 tons	1,255
Limestone for agriculture	1,182,508 tons	797,359	1,366,651 tons	830,571
Limestone for industrial uses	30,498 tons	22,678	30,694 tons	15,453
Limestone, marl, etc., for cement	322,683 tons	62,428	415,332 tons	84,248
Magnesite	580 tons	392	479 tons	362
Pumice	8,774 tons	8,490	9,612 tons	5,999
Quartzite			5 tons	10
Rock for harbour work	51,894 tons	9,171	55,855 tons	15,437
Salt			700 tons	4,200
Sand, gravel, etc., for building aggregate	331,806 tons	138,947	920,316 tons	433,787
Sand, gravel, etc., for roads and ballast	2,399,941 tons	832,552	3,305,629 tons	1,266,181
Serpentine	91,976 tons	45,174	91,358 tons	46,864
Silica sand	22,508 tons	74,244	22,114 tons	86,702
Sulphur			486 tons	9,737
Totals		9,201,247		10,648,845

The next statement shows the value of New Zealand minerals and allied substances exported during the years stated.

Mineral	1950	1951	1952	Total from 1 January 1853 to 31 December 1952
	£	£	£	£
Gold	1,296,610	835,813	798,356	121,714,981
Silver	25,895	889	518	3,882,831
Tungsten ore	13,539	64,318	77,813	723,866
Antimony ore				55,700
Mercury				41,319
Other minerals	16,148	11,954	8,451	753,447
Kauri-gum	125,893	132,126	81,517	24,978,620
Coal (including bunker)	18,445	24,432	58,541	8,600,040

GOLD MINING.—The gold-mining industry, which in its early stages contributed greatly to the progress and settlement of New Zealand, but which declined in importance with the exhaustion of the more accessible alluvial-gold deposits and of ore from the zones of enrichment, again came into prominence in the years immediately prior to the war on account of the enhanced price of gold and the revival of gold dredging.

Gold-dredging possibilities presented an entirely new aspect not only on account of the price of gold, but also on account of the greater depths to which modern machines can work and their low cost of operation per cubic yard. Since 1940, however, there has been a steady decline in the production of gold. The decreased importance of gold mining to the community during the war period was responsible for man-power problems and difficulties in securing equipment. These difficulties were further accentuated by rising costs in the post-war years, and tax remissions to the extent of 34s. 8d. per ounce made by the Government to meet such costs, and the increased price of gold consequent upon the devaluation of sterling, have not been able to improve the position. A further attempt to assist the industry was the decision that on and after 16 August 1952 producers or their agents holding gold-dealers' licences are permitted to sell their gold production overseas on the open market provided the full proceeds of such exports are received by the banking system in United States dollars at not less than thirty-five dollars per fine ounce. Previously all gold was purchased by the Reserve Bank, the price being £12 5s. per fine ounce.

The principal reason for the decline in gold production, however, would appear to be the exhaustion of the gold-bearing areas, and this applies to the three recognized methods of mining.

The number of dredges in active operation during 1952 was eight, five on the West Coast and three in Otago. Early in the year, however, two suspended operations, leaving four active dredges on the West Coast (Grey River, Rimu, Kaniere, and Snoddy River) and two in Otago (Cutha and Rainbow) at the end of the year. Since then the Rimu and Kaniere dredges have closed down. The owners of the Kaniere dredge are transferring it to a new area in the Taramakau River. It is expected to commence operations there in 1955. As recent prospecting operations for new areas have not been attended with much success, it is apparent that production of gold by dredging must diminish.

Production of gold from quartz mines has recently declined, as was to be expected from the abandonment of active mining operations at the Blackwater Mine on the West Coast in July 1951, and of the Martha Mine at Waiki in June 1952. During its working life of sixty-one years from 1892 to 1952, the Martha Mine produced 11,931,047 short tons of ore, while the total amount of gold and silver produced over the period was 35,523,768 oz. of bullion, valued at £28,496,011. Largely owing to the exhaustion of ore reserves, for all practical purposes the active quartz-mining section of the industry may be regarded as terminated.

Alluvial mining, now at a very low ebb, showed a slight increase during the year. The following table gives particulars of the estimated gold content of gold/silver/bullion production for the last three years.

—	Quantity			Value		
	1950	1951	1952	1950	1951	1952
	Oz.	Oz.	Oz.	£	£	£
Quartz mining	27,874	23,615	11,036	340,768	288,892	140,481
Alluvial mining	1,758	1,441	1,640	21,003	16,917	19,026
Dredge mining	46,895	50,059	46,475	567,643	609,527	580,424
Totals	76,527	75,115	59,151	929,414	915,336	739,931

SILVER.—Nearly the whole of the locally produced silver exported from New Zealand has been obtained from the refinement of bullion from the quartz mines of the Hauraki goldfield, where gold and silver are found alloyed, the ratio of the two metals in the alloy varying greatly. No other silver-mining operations have been carried out profitably in New Zealand.

With the closing-down of the only two quartz mines of any consequence, the production of silver in New Zealand in any quantity may be regarded as finished.

IRON ORES.—The two main sources of iron available in New Zealand are the iron-ore deposits of the Onekaka region, Golden Bay, in the Nelson Provincial District; and the iron sands which are largely concentrated on the beaches of Taranaki, though not limited that district.

As a result of a systematic prospecting programme of tunnelling and boring carried out by the State during the years 1938 to 1942 the ore reserves of the Onekaka deposits are estimated at 9,500,000 tons, assaying 40 per cent iron.

Although the whole of New Zealand's iron-bearing sands have not been surveyed, there is no doubt that the total quantity is enormous. As a result of prospecting operations by the State the titaniferous iron sands in the vicinity of Patea have been estimated as amounting to 45,500,000 tons, assaying 21 per cent soluble iron, which, by magnetic separation, would yield 14,500,000 tons of concentrates assaying 53 per cent soluble iron. Preliminary investigation at Wanganni and at Waitara has shown great quantities of sand, but of lower iron content, while deposits at Mekan, Awakino, and Manakau still await investigation.

Many attempts have been made to smelt Taranaki iron sand, but commercial success has not attended any of these efforts. Difficulty has been experienced owing to the fineness of the sand and also to the presence of titanitic acid. However, it is considered possible that these sands can be economically smelted if mixed in the proportion of 1 part of sand to 4 of Golden Bay ore. In 1949 large-scale tests on the smelting of iron sands by means of an electric furnace and the use of char obtained from sub-bituminous coal were carried out at Onekaka under the supervision of overseas experts. The tests showed that pig iron suitable for conversion to steel could be obtained from Taranaki iron sands by these means.

There has been a small annual production of iron ore from the Onekaka deposits and certain small deposits in the North Auckland district for use in gas purification, the preparation of stock licks, and in the cement industry.

Production in 1952 was 1,823 tons, 868 of these from Okaihau, 110 from Kamo, and 845 from Onekaka.

TUNGSTEN.—The principal ore of tungsten in New Zealand is scheelite, though a little wolfram is found in Otago and Stewart Island, but not in economic quantities.

Scheelite occurs at numerous points frequently associated with gold in quartz veins traversing the schists of Otago and Marlborough. It has also been identified in finely divided form in the concentrates from the gold-saving tables of dredges operating on the West Coast.

The scheelite-bearing quartz-veins are generally small and broken, while the scheelite is most erratically distributed in the veins, with the greatest concentration of scheelite situated close to the surface or at shallow depths. Further, many of the lodes occur at high altitudes, which allows of only a short working season; access and transport present difficulties, and production costs are relatively high.

In 1952, 57 tons of scheelite were produced as compared with 32 tons in 1951. The Glenorchy field was responsible for the greater part of this production, 44 tons having been obtained from this field, 12 tons from the Macrae's Flat field, and a small parcel of 3 cwt. from the Bacedwood field. Other producing centres in Otago have been Stoneburn, Hyde, and Waipari.

The total quantity of locally produced ore exported to 31 December 1952 was 3,543 tons, valued at £723,866.

COPPER.—Ores of copper are found in New Zealand in no fewer than thirty-two known localities, but during the last seventy years attempts at their successful exploitation have been unprofitable. After many years of inactivity, mining was resumed during 1946, when operations were commenced at a copper-ore occurrence at Pakotai, in North Auckland.

Three shipments of ore have been made from this deposit, one of 580 tons which realized £6,255 in 1947, another of 610 tons which realized £10,303 in 1950, and a third of 178 tons which realized £2,141 in 1952. The ore is of good grade averaging approximately 13 per cent of copper, but the deposit is small and ore reserves are not of any magnitude.

It is estimated that the total production of copper to the end of 1952 has amounted to 6,404 tons, valued at £124,302.

MANGANESE.—Manganese ores are found in many localities, chiefly in the older sedimentary rocks. At Tikiora Hill (near Russell), at Parua Bay (near Whangarei), and especially at Waikeke Island, manganese deposits were mined many years ago, while of recent years there has been some production from deposits at Bonthay, Moumoukai, and Otari, all in the Auckland district. Deposits are, however, generally small and shallow and capable of producing only limited tonnages of ore.

Production from Otari in 1952 totalled 319 tons, compared with 402 tons in 1951.

MERCURY.—Cinnabar, the principal ore of mercury, is widely distributed in New Zealand, but only in a few localities is it found in quantities of economic importance. The most promising deposits of mercury ore in New Zealand are those of the Pihlupahi district, where for many years efforts have been made to place the production of the metal on a commercial basis. During the war these efforts were revived and production recommenced, the ore being obtained by open-pit mining and the mercury recovered in a modern treatment plant with a capacity of 50 tons of ore per day.

Owing to the drastic slump in the price and the need for additional earth-moving equipment, operations were discontinued in 1945.

The total quantity of mercury of New Zealand origin exported up to 31 December 1952 was 111,838 lb., valued at £41,319.

ANTIMONY.—The high price ruling for antimony ores again directed attention to the deposits of these ores in Central Otago, and prospecting operations have been carried out at Mount Stoker in the Nenthorn Survey District, 5 tons of ore being obtained from these operations in 1949, as compared with 9 tons in 1948. There was no production in 1950 or in 1951. Recently attention has been directed to deposits at Endeavour Inlet, in Queen Charlotte Sound, and Langdon's Creek, near Greymouth. Eleven tons of antimony ore, valued at £179, were obtained at Endeavour Inlet in 1952.

TIN.—Cassiterite in the form of "stream tin" occurs in small deposits near Port Pegasus, Stewart Island, and these have been worked to some extent. "Lode tin" has been found in the same locality, but the deposit is not of economic value. Small quantities of cassiterite have also been detected in the stream gravels of the Reefton, Greymouth, and Westport districts. Among other localities in which traces of tin occur are Wet Jacket Arm (Otago) and Campbell Island.

PLATINUM.—In the published lists of minerals of New Zealand, platinum is stated to occur in several places, associated generally with gold in gravel. It is only from Southland, however, that platinum has been exported, but quantities produced have been insignificant, and of late years negligible. There had been no production since 1946, when 14 oz. were produced, until 1951 when 8 oz. were produced. Four ounces were produced in 1952.

URANIUM.—A concentrated search for uranium ores has resulted in the discovery that some of the auriferous gravels and sands of the West Coast of the South Island contain a small proportion of uranium-bearing materials, in particular, uranothorite and monazite. These accumulate in greater concentration upon the gold-saving tables of the dredges, and it was considered that they might be regarded as a possible source of uranium, but investigation has shown that they are too low grade to be of economic value.

The mining and treatment of the ores of uranium and other elements which may be used for the production of atomic energy are now controlled by the provisions of the Atomic Energy Act 1945.

SULPHUR.—Native sulphur occurs in the thermal districts of the North Island near Rotorua and Lake Taupo and at White Island. From an area at Rotokaka, in the Taupo region, 486 tons of sulphur were produced in 1952, the first production of sulphur for many years. Exports of sulphur of New Zealand origin up to the end of 1952 have amounted to an aggregate value of £13,241.

ASBESTOS.—Chrysotile asbestos occurs at several points in the massive serpentines of Nelson and Otago, but the only deposits of importance so far located are those of Tapika Takaka in the Nelson district. While these deposits have long been known, difficulties of access have prevented prospecting and exploitation, but of recent years an all-weather motor road has been formed giving access to the area. An experimental treatment plant was installed, and a systematic prospecting programme of driving and crosscutting carried out. This programme was completed early in 1945, when active development was suspended. Operations were, however, resumed in 1950 and continued on an increasing scale in 1953, but owing to the easing of the overseas supply position, were on a reduced scale in 1952.

COAL.—Coal in New Zealand has for many years been mined in certain well-defined areas, beyond which no coal is known to exist in any significant quantities. The major coalfields, with the class of coal found in each, are—

Bituminous Coal (Coking): Greymouth, Westport (Buller Coalfield).

Sub-bituminous Coal (Non-coking): Waikato (including North Taranaki), Otago (Kaitangata), Southland (Ohai), Reefton.

Lignite (Non-coking Low Grade): Southland (Mataura).

Minor coalfields from which coal is being mined, but which cannot be expected to provide an important contribution to our coal resources are—

Sub-bituminous Coal: North Auckland (Hikurangi, Kamo), Nelson (Puponga, Westhaven).

Lignite: Canterbury (numerous small deposits), Otago, Charleston (Westport).

In recent years the investigation of coal resources has been carried on by three organizations working in close co-operation. These organizations are (1) the Coal Survey, whose activities are mainly geological and chemical; (2) the Surveying and Prospecting Organization set up by the Mines Department to follow up the Coal Survey with detailed topographical surveys and shallow prospecting by means of cuts, pits, and hand drilling; (3) the Drilling Section of the Mines Department carrying out investigations by deep-core drilling.

As a result of the intensive work of these organizations during 1946-50 considerably more information is now available than was the case in 1946 when the last estimate of the coal resources of New Zealand which appeared in the Mines Statement for the year 1945 was made. This matter was considered jointly by officers of the Geological Survey and Mines Department, and a new estimate prepared based on information obtained from the Mines Department as to reserves of operating coal mines and of closely drilled areas, and from the Coal Survey as to reserves of the districts surveyed. The classification accepted—"measured," "indicated," and "inferred"—is that used by the United States Bureau of Mines and the Commonwealth Mineral Resources Survey. These terms are simply defined as follows:

- "Measured coal" is coal for which tonnage is computed from dimensions revealed in outcrops, trenches, workings, and drill holes and for which the grade is computed from the results of detailed sampling. The sites for inspection, sampling, and measurements are so closely spaced and the geologic character is defined so well that the size, shape, and content are well established. The computed tonnage and grade are judged to be accurate within limits, and no such limit is judged to differ from the computed tonnage or grade by more than 20 per cent.
- "Indicated coal" is coal for which tonnage and grade are computed partly from specific measurements, samples, or production data and partly from projection for a reasonable distance on geologic evidence. The sites available for inspection, measurement, and sampling are too widely or otherwise inappropriately spaced to outline the coal completely or to establish its grade throughout.

- "Inferred coal" is coal for which quantitative estimates are based largely on broad knowledge of the geological character of the deposit and for which there are few, if any, samples or measurements. The estimates are based on an assumed continuity or repetition for which there is geologic evidence; this evidence may include comparison with deposits of similar type. Bodies that are completely concealed may be included if there is specific geologic evidence of their presence.

Although these terms are fairly close to the original terms—"proved," "probable," and "inferred"—it was considered better to use the clearly and specifically defined terms as above, that have wide international acceptance.

The figures in all cases represent recoverable coal and not coal in ground.

The following are the total coal resources of New Zealand based on all available information at date (1950).

—	Measured	Indicated	Inferred
	Tons	Tons	Tons
Bituminous	28,000,000	21,000,000	58,000,000
Sub-bituminous	52,000,000	45,000,000	502,000,000
Lignite	13,000,000	27,000,000	366,000,000
Totals	93,000,000	93,000,000	926,000,000

It will be noticed, when compared with 1946 figures, that measured bituminous has increased, largely as a result of close drilling on the Buller field, and that a figure for inferred bituminous is presented. In both sub-bituminous and lignite the previous large quantities of proved coal have been considerably reduced, simply because there was no evidence to support such figures as measured coal according to the definition of this term. In both cases inferred resources have been shown, which in 1946 were confined to sub-bituminous. The over-all total of 1,112,000,000 tons is fairly close to the previous 1946 estimate (1,158,436,000 tons).

From time to time concern has been expressed that reserves of measured, recoverable coal are of so low an order in New Zealand. It must, however, be recognized that to establish reserves of this type it is necessary either to bore them out by underground development or to define them by close boring, and sound mining practice demands that such reserves should bear some relationship to the scale of the industry and the annual production required. Actually, measured reserves of coal in each class, bituminous, sub-bituminous, and lignite, are sufficient to maintain the present rate of production for a term of years far in excess of those demanded by recognized mining practice, and it is accordingly questionable whether, from some aspects, reserves are accordingly too high rather than too low, and there is no justification for the concern expressed.

The rise in inferred lignite and sub-bituminous is the result of work in the Ohai and Kaitangata fields. It is considered that these figures represent a more realistic picture than did those of 1946.

The following table shows the quantitative groupings in the various coalfields of New Zealand, set out under the three rank divisions.

—	Measured	Indicated	Inferred
	Tons	Tons	Tons
<i>Bituminous</i>			
Buller	14,000,000	6,500,000	24,300,000
Murchison			1,500,000
Garvey Creek	1,000,000	2,300,000	2,200,000
Greymouth	13,000,000	13,000,000	30,000,000
Totals	28,000,000	21,800,000	58,000,000
<i>Sub-bituminous</i>			
Northland	1,300,000	1,700,000	3,000,000
Huntly	32,000,000	18,000,000	65,000,000
Maramara	5,000,000	15,000,000	20,000,000
Mangapehi	1,500,000	500,000	1,000,000
Tatu	300,000	400,000	
Waitewhena	400,000		12,000,000
Mokau			60,000,000
Nelson	200,000		2,000,000
Buller Gorge			1,000,000
Reefton	1,000,000	2,700,000	5,000,000
Fletcher Creek			3,000,000
Panikakaiki			2,000,000
Kaitangata		6,000,000	227,000,000
Ohai	11,000,000	1,000,000	100,000,000
Orepuki			1,000,000
Totals	52,700,000	45,300,000	502,000,000
—	Measured	Indicated	Inferred
	Tons	Tons	Tons
<i>Lignite</i>			
Charleston	6,000,000	2,000,000	8,000,000
Canterbury	250,000		20,000,000
North Otago	250,000		2,000,000
Central Otago	250,000		15,000,000
Green Island	250,000		3,000,000
Kaitangata	1,000,000	5,000,000	156,000,000
Pomalaha			10,000,000
Mataura Valley	5,000,000	20,000,000	152,000,000
Totals	13,000,000	27,000,000	366,000,000

The following table summarizes coal-mining operations.

Year	Output (Tons)	Persons Ordinarily Employed			Lives Lost by Accidents In or About Collieries		
		Surface	Underground	Totals	Per Million Tons Produced	Per Thousand Persons Employed	Lives Lost
Prior to 1943	100,655,716						536
1943	2,787,868	1,375	3,999	5,374	2.87	1.50	8
1944	2,805,970	1,637	3,958	5,595	4.28	2.14	12
1945	2,833,576	1,660	3,932	5,592	2.12	1.07	6
1946	2,793,870	1,738	3,819	5,557	1.43	0.72	4
1947	2,751,725	1,703	3,739	5,442	1.43	0.73	4
1948	2,775,886	1,740	3,842	5,582	1.80	0.90	5
1949	2,813,275	1,868	4,009	5,877	1.07	0.51	3
1950	2,669,451	1,773	3,815	5,588	1.12	0.54	3
1951	2,435,505	1,676	3,386	5,062	2.05	0.98	5
1952	2,749,808	1,610	3,482	5,092	1.45	0.54	4
Totals	128,072,650						590

The substantial decrease in coal production recorded during the year 1951 was due entirely to the industrial trouble which resulted in several of the more important underground mines being idle for several months. However, the industry showed great recuperative capacity, and towards the end of the year, despite a reduction in imports, coal supply was again adequate for all requirements. This condition still persists, and during 1952 the point was reached where in some grades of coal, supply was actually in excess of demand.

The output of the several classes of coal mined in each inspection district during 1952 together with the total output to the end of that year are shown in the next table. District totals for 1951 are also given.

Class of Coal	Northern District (North Island)		West Coast District (South Island)		Southern District (South Island)		Total		Total Output to 31 December 1952	
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Anthracite					808	808				24,001
Bituminous			860,898		860,898					65,730,362
Sub-bituminous	1,158,650		145,850		353,853	1,658,353				53,794,912
Lignite			20,297		209,452	229,749				8,523,375
Totals for 1952	1,158,650		1,027,045		564,113	2,749,808				128,072,650
Totals for 1951	957,414		867,672		610,419	2,435,505				125,322,842

During 1952, 185 mines were in operation. Of these, 59 mines operated wholly or principally on freehold land and the remaining 126 wholly or predominantly on Crown land.

Output from freehold land was 1,078,670 tons (39.2 per cent) and output from Crown land 1,671,138 tons (60.8 per cent), these proportions being similar to those recorded in the previous year.

Underground Mines.—The following table gives particulars of the operations of underground mining during the last eleven years.

Calendar Year	Output (Tons)	Men Employed Underground	Tons Per Man Underground	Men Employed on Surface	Tons Per Man on Pay-roll
1942	2,624,267	3,659	717	1,291	530
1943	2,725,831	3,999	682	1,329	512
1944	2,609,516	3,958	659	1,395	489
1945	2,380,896	3,932	606	1,328	453
1946	2,265,170	3,819	593	1,313	441
1947	2,107,033	3,739	564	1,271	421
1948	2,099,158	3,842	546	1,285	409
1949	2,071,288	4,009	517	1,368	385
1950	1,956,955	3,815	513	1,334	380
1951	1,479,373	3,386	437	1,230	320
1952	1,914,137	3,482	550	1,204	408

Commencing with the year 1939, there was a sustained increase in the output per man employed underground up to and including 1942, since when there was a series of decreases until 1952. However in 1952 this decline was arrested and an increase of 37 tons was recorded over the last normal year, that of 1950, and of 113 tons over 1951. Conditions in 1951 were abnormal, but the fall between 1942 and 1950 amounted to 204 tons (28.4 per cent) per acre engaged underground. The introduction of a seven-hour day early in 1948, instead of eight hours as formerly, was responsible for part of the decline mentioned, but other contributory factors were the shortage of experienced men and the more difficult mining conditions and longer haulages that have been encountered in some of the older mines. Of late years the output per hewer shift remained remarkably constant, and the inference was that the over-all decrease was due to the greater number of men required in maintaining services and in transporting coal from the face to the surface. The Mines Statement (parliamentary paper C-2) for the year 1951 stated that to maintain production at the present level it is essential that new mines be opened up to replace those approaching exhaustion, operations be mechanized as much as possible, and transport facilities be improved, and progress has been made in all of these directions.

Opencast Mines.—Production of coal from opencast mines in 1952 amounted to 835,671 tons, which was 120,461 tons less than the production achieved in 1951. The proportion of the total production of coal obtained from opencast mines amounted to 30 per cent.

There were sixty-one opencast mines in operation in 1952, and of these thirteen operated by the State produced 472,989 tons. All of these State mines have come into production since the beginning of 1944. The progress of opencast mining during the last eleven years is illustrated by the following table.

Year	Output (Tons)	Men Employed	Tons Per Man Employed
1942	55,774	47	1,187
1943	62,037	46	1,349
1944	196,454	242	812
1945	452,680	332	1,363
1946	528,700	425	1,244
1947	644,692	432	1,492
1948	676,728	455	1,487
1949	741,987	500	1,484
1950	712,496	439	1,623
1951	956,132	446	2,144
1952	835,671	406	2,058

Coal Research and Derived Products.—The Government is keeping abreast of latest developments in regard to the production of oil from coal by the hydrogenation and the low-temperature carbonization processes. During 1950 considerable progress was made in systematic field surveys and mapping of the coal resources of New Zealand, combined with research work in State laboratories into the physical and chemical properties of the various coals. A large amount of investigation into fuel problems was also carried out, and many analyses of coal and other fuel samples were made.

Low-temperature carbonization works, using the Lurgi process, established at Rotowaro, 70 miles south of Auckland, in 1931, produced during 1952, 11,240 tons of carbonates, 195,575 gallons of tar and oil, and 1,458 tons of char from 21,938 tons of slack coal, which was part of the output of a group of local mines.

The Sockburn plant, near Christchurch, produced during 1952, 30,550 gallons of tar and 6,456 tons of coke.

Coal Utilization.—The approximate distribution of coal consumption during each of the five years 1948-52 is shown in the following table. The total quantity is based on actual production in each year plus imports and minus exports (including bunker coal for overseas vessels). Where the information is available, adjustments have been made for stocks on hand at the beginning and end of the year.

—	1948	1949	1950	1951	1952
	Tons	Tons	Tons	Tons	Tons
Railways	577,000	552,000	478,000	444,000	435,000
Coastal shipping	77,000	55,000	49,000	37,000	36,000
Gasworks	323,000	311,000	301,000	260,000	289,000
Factories*	1,200,000	1,288,000	1,306,000	1,174,000	1,378,000
Households	620,000	640,000	600,000	540,000	590,000
Total consumption	2,797,000	2,846,000	2,734,000	2,455,000	2,728,000

* Includes hospitals, hotels, etc.

State Coal Mines.—The Coal Mines Act 1901 provided for the purchase and working of State coal mines in New Zealand under the direct control of the Minister of Mines. At 31 December 1952 there were thirty-eight State collieries working.

The outputs of coal produced from State coal mines for the last two financial periods are shown below.

Name of Mine	Nine Months to 31 December 1951*		Year to 31 December 1952	
	Gross Output†	Net Output for Disposal	Gross Output†	Net Output for Disposal

Name of Mine	Nine Months to 31 December 1951*		Year to 31 December 1952	
	Gross Output†	Net Output for Disposal	Gross Output†	Net Output for Disposal
<i>Underground Mines</i>	Tons	Tons	Tons	Tons
Kame	40,738	39,863	49,100	47,881
Allison	37,990	35,414	83,149	78,632
Rotowaro	36,179	34,388	84,266	80,622
Roswin	43,361	41,974	75,601	73,372
Wilson	39,128	37,934	70,507	68,548
Mangapehi	14,568	13,753	30,514	29,240
Tatu	15,078	14,028	26,166	24,613
Demiston	37,497	35,618	77,094	74,365
Millerton	26,633	25,786	54,442	53,044
McCabes (‡) (‡)			1,257	1,240
Stockton (‡)	13,685	13,528	26,816	26,457
Webb (‡)	44,231	43,806	72,665	71,692
Burke's Creek	10,037	9,350	21,583	20,560
Burnwell	6,970	6,889	24,747	24,576
Central (‡)	2,777	2,765	2,132	2,132
Garvey Creek (‡)	51	50	127	127
Blackball	27,071	25,486	53,997	51,732
Dobson	33,963	31,202	55,241	50,636
Paparoa	12,809	12,411	24,046	23,526
Tyneside (**)			405	405
Wallend	21,495	20,295	39,988	38,359
Liverpool	59,464	57,472	112,774	109,789
Strongman	60,616	56,497	100,251	93,156
Birchwood	19,283	18,492	24,913	23,866
Linton	52,447	49,780	70,057	67,416
Mossbank (‡)	13,200	12,442	9,652	9,064
Star	25,639	24,367	28,827	27,262
Wairaki	53,687	47,989	71,341	65,801
Totals	748,597	711,579	1,291,658	1,238,113
<i>Opencast Mines</i>				
Burke's	40,951	40,773	85,320	85,151
Devlin and Bell's	42,289	42,227	46,927	46,927
Thompson's	30,475	30,433	19,689	19,632
Kimihia	94,817	94,743	100,517	100,414
Waitewhena	31,697	31,639	33,155	33,085
Stockton (‡)	90,527	90,013	63,499	62,674
Demiston	8,492	8,489	5,773	5,773
Garvey Creek	16,071	16,056	18,529	18,481
Wangaloa	38,591	38,470	30,359	30,211
Black Diamond	26,025	26,010	30,528	30,508
No. 8 Opencast, Ohai (‡)			4,567	4,567
No. 11 Opencast, Ohai (‡)			2,374	2,374
McLean's	32,334	32,334	31,752	31,752
Opencast totals	452,269	451,187	472,989	471,549
Underground totals	748,597	711,579	1,291,658	1,238,113
Grand totals	1,200,866	1,162,766	1,764,647	1,709,662

* Balance date changed in terms of Finance Act 1951 and only nine months in accounts to 31 December 1951.

† Includes surplus stock brought on charge or amended for stock deficiencies written off.

‡ New mine which started production during year.

§ Tonnage for—used on works, waste, workmen, and free—apportioned with opencast or underground production.

|| Ceased production Central (July 1952); Mossbank (September 1952); No. 11 Ohai commenced and finished during year.

¶ Produced by shiftmen from falls of coal—no hewers employed.

** Coal won from development work.

The average number of persons employed in and about State mines during the year ended 31 December 1952 was—underground, 2,492; surface, 1,126; total, 3,618. Surface workers include 242 employed at the thirteen State opencast mines operating during the period.

Financial.—Sales of coal, etc., through the medium of the depots totalled 1,576,365 tons (value, £5,877,669) for the year ended 31 December 1952. This compares with 1,139,606 tons (value, £4,156,882) for the nine months ended 31 December 1951, and 1,340,618 tons (value, £4,242,627) for the previous year.

The surplus on trading in 1952 was £178,367, and on the Accident Insurance Account £31,639, making a total surplus for the year of £210,006, equivalent to 3.37 per cent on the capital employed in the undertaking.

Provision for taxation accounted for £8,677 and for interest on loan capital £198,086, leaving a net surplus on both accounts of £3,243.

In order to meet the statutory sinking fund instalment of £151,037 it was necessary to transfer £170,756 from the general reserve.

Capital expenditure on fixed assets during the year was £695,229. The amount written off as depreciation was £309,535, so that the net valuation of fixed assets increased by £385,694. New capital, amounting to £350,000, was raised during the year.

Housing.—Employees in State coal mines may be granted loans for the erection of new homes' the purchase of existing ones, or for repairs and renovations. During the year ended 31 December 1952 the number of loans granted was fifty-nine for a total amount of £47,113. Of these, six were for the erection of new homes, fifty for the purchase of existing houses, and three for repairs, etc. During the period this scheme has been in operation some 445 loans have been granted for a total amount of £281,179. The erection of new houses accounted for 158; purchase, 252; and repairs, etc., 35.

Accident Insurance.—The number of compensatable accidents at State coal mines for the year ended 31 December 1952 was 1,622, as compared with 743 for nine months ended 31 December 1951 and 1,229 for the year ended 31 March 1951.

The cost of claims per cent on wages paid amounted to £3 19s. 10d. for the year, compared with £2 19s. 9d. for the previous nine months.

The Accident Insurance Working Account showed a surplus of £31,639 for the year ended 31 December 1952, as compared with £34,211 for the previous nine months. After providing £7,412 for taxation, there remained a balance of £24,227 for transfer to the Accident Insurance Reserve. At 31 December 1952 this reserve stood at £278,298.

PETROLEUM.—Indications of the presence of petroleum are found on the surface in North Auckland, at Motoua near New Plymouth and elsewhere in Taranaki, over wide areas on the eastern coast of the North Island, and in the South Island at Koutou, near Murchison, and in the Cheviot district. In earlier years drilling had been carried out in Taranaki, Hawke's Bay, Canterbury, Southland, and Westland, the deepest hole being at Motoua, near New Plymouth, which attained a depth of approximately 6,000 ft. Petroleum of good quality was proved to exist, but only in limited quantity.

After the passing of the Petroleum Act 1937, as amended by section 55 of the Statutes Amendment Act 1939 and sections 59 to 63 inclusive of the Statutes Amendment Act 1941, considerable interest was displayed by some of the major oil organizations, and practically all the potential oil-bearing lands in New Zealand were held under petroleum-prospecting licences.

A great amount of geological and geophysical work was carried out on licensed areas and, in addition to many thousands of feet of core drilling for geological and geophysical purposes, thirteen deep holes were drilled on favourable structures located by the geological work. The deepest hole attained a depth of 10,925 ft., and the total footage drilled amounted to 73,565 ft. The results of this drilling were consistently disappointing, as all the wells proved dry.

Towards the end of 1950 geologists of the Anglo-Iranian Oil Company, assisted by members of the New Zealand Geological Survey, commenced a survey of all available information obtained from past oil-prospecting activities and a review of geological literature on the subject, preparatory to a fresh assessment of New Zealand's oil resources.

Drilling operations in the Motoua field were resumed during 1948 by New Zealand Oil Refineries, Ltd., and the Dobson No. 1 well was completed early in 1949 at a depth of 2,236 ft., oil-bearing sands being passed through between 2,222 ft. and the bottom of the hole, with oil flowing under its own gas pressure at the rate of 1,200 gallons per day. The sinking of an additional well at Motoua was commenced during the year 1950, but was abandoned at a depth of 2,000 ft., owing to drilling difficulties.

A recent development has been the connection of three wells by pipe line to the New Plymouth Gas Co's works, whereby natural gas is blended with producer gas and the mixture supplied to gas consumers in New Plymouth.

The total production of crude petroleum to 31 December 1952 is estimated at 4,707,193 gallons, 302,870 of which were obtained in 1952.

BENTONITE.—The most promising deposits of this mineral occur at Porangahau, in the Hawke's Bay district, and at Mangatu, near Gisborne. Bentonite is mainly used in the preparation of foundry moulding-sands and drilling muds, but the mineral has many other uses. With the installation of treatment plants, bentonite in a marketable processed form is now available instead of the crude, lump, sun-dried form previously produced. The total quantity of bentonite produced to the end of 1952 was 4,338 tons, of a value of £28,296.

KAURI GUM.—Production of kauri gum has decreased in recent years. The industry suffered a severe setback through the restriction of European markets during the period of the First World War; and, while some recovery was made in the five years immediately following the war, trade in this commodity has since been at a comparatively low level.

A system of control of the trade in, and export of, kauri gum was provided by the Kauri Gum Control Act 1925. The Finance Act (No. 2) 1933 provided for the repeal of the Control Act. The property of the Kauri Gum Control Board was vested in the Crown, the Minister of Lands taking over the powers and obligations of the Board. The former Internal Marketing Division of the Marketing Department materially assisted kauri-gum diggers by arranging minimum prices for various types and qualities of gum, and by assisting in the marketing of their product.

During 1952, 576 tons of kauri gum, valued at £81,517, were exported, the total quantity of gum exported to the end of 1952 being 456,982 tons, valued at £24,978,620.

PHOSPHATE.—The occurrence of phosphate has been reported from many localities in New Zealand, but so far the deposits of Clarendon and Milburn have proved to be the only ones of economic importance. From 1902 to 1924 these deposits were actively worked, and 141,843 tons of medium-grade phosphate rock were produced.

Active mining commenced again in 1943. During the years 1943 and 1944, 7,488 tons of medium-grade phosphate rock were produced, while from 1943 to 1947 the production of low-grade phosphate rock amounted to 40,887 tons. The resumption of imports of rock phosphates from Nauru coincided with the exhaustion of the more favourable sections of the deposit, and operations were terminated early in 1947.

SERPENTINE.—Serpentine, which in the South Island forms vast rock masses in Nelson and Otago, and which occurs in smaller amount in the North Island, is now of value to the fertilizer industry in the preparation of serpentine superphosphate. Production at first was mainly confined to the smaller occurrences in North Auckland owing to ease of access and transport, but production has now been commenced at much larger deposits near Te Kuiti, in the North Island, and near Mossburn, in the South Island. To the end of 1952, 530,308 tons of serpentine had been mined.

GREENSTONE.—The mineral nephrite, the "pounamu" of the Maori, a deep-green semi-transparent mineral with dark opaque patches, more popularly known as one of the varieties of "greenstone," occurs as rounded segregations in the talc or talc-serpentine rocks of the Griffin Range of north Westland. The principal supply was obtained from the gravels of the Arakura and Taramakau Rivers, and from gold-slicing claims of the Kumara district. Some of this has been cut and polished in New Zealand for personal and other small ornaments; the remainder has been exported. With the decline in slicing operations, this mineral has been in short supply.

SALT.—An entirely new departure in mineral production is at present in its early stages at Lake Grassmere, in Marlborough, where salt is being produced by the solar evaporation of seawater. The low rainfall, long hours of sunlight, and the wind conditions make this locality the most suitable one in New Zealand for this purpose. Salt harvested in 1952 totalled 700 tons of value £4,200.

BUILDING AND ORNAMENTAL STONES.—New Zealand possesses a great variety of handsome and durable building stones scattered throughout both Islands. In Auckland there are basalt, andesite, porphyrite, and quartz biotite-diorite, known in the building trade as "Coromandel" granite; a hard, coarsely crystalline rock, capable of taking a fine polish. In addition, there are the Whangarei limestone and the Raglan stone, the former an excellent building stone, the latter a good freestone. Taranaki has the hornblende andesites of New Plymouth and Mount Egmont, and Wellington the andesites of Ruapehu.

In Nelson there are the granite of Tate Island and Tonga Bay and the marble or crystalline limestone of the Pihirua (Riwaka) Range. West Nelson and Westland are well provided with granites and limestones of good quality, well adapted for building purposes; and in the Griffin Range, north Westland, there is found an abundance of finely coloured serpentine, unassupposed as a decorative stone. Building stone is scarce in Marlborough, but Canterbury is well supplied, having an abundance of Lyttelton bluestone (andesite) and Mount Somers stone, a limestone of exceptional quality. In Otago there is an abundance of excellent building stone, ranging from the well-known Oamaru stone to the granite, gneiss, and limestones of Fiordland, all close to deep water. In Southland there are the so-called Ruapeke "granite," the norite of the Bluff, and the granites of Stewart Island.

The lower story of Parliament Buildings is constructed of Coromandel granite, and the upper stones of Takaka marble.

The following table relates to quarries under the Quarries Act and shows the output for the year 1952. The classification given in this table differs in certain minor instances from that given on page 534.

—	Northern		Hauraki		West Coast		Southern	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£	Tons	£	Tons	£	Tons	£
Asbestos					682	33,860		
Bentonite			570	4,783				
Chalk							1,239	620
Clay (bricks, etc.)	135,147	24,871	6,256	3,867	1,862	690	59,851	22,065
Clay (pottery, etc.)			262	638	316	632	2,693	2,693
Diatomite			109	184			95	152
Dolomite					1,255	1,255		
Limestone (cement)	250,000	50,000			66,219	7,450	61,085	24,454
Limestone (agriculture)	4,30,855	254,775	1,150	1,266	46,523	16,572	888,123	557,958
Limestone (industry)	10,940	6,210			4,726	2,682	12,720	5,445
Marl (cement)					3,765	454	21,303	1,420
Magnesite					579	362		
Pumice	2,160	525	7,452	5,474			5	10
Quartzite							5	10
Rock (harbour works)					3,546	1,315	52,309	14,122
Sand, gravel, etc., for roads and ballast	2,040,425	744,081	423,497	251,246	50,614	10,189	791,093	260,665
Sand (industry)							2,715	4,038
Sand, rock, or gravel for building aggregate	542,980	226,971	33,675	18,917			339,946	183,861
Serpentine			79,358	16,864			12,000	30,000
Silica sand			22,114	86,702	13,160	470		
Stone (dimension for building)	8,131	4,559	140	400			9,718	16,595
Stone-dust (coal mines)					1,069	496		
Totals	3,420,638	1,311,992	574,583	390,341	194,321	76,437	2,255,890	1,124,088

Number of men employed: Northern, 1,344; Hauraki, 302; West Coast, 145; Southern, 521.

The Quarries Act 1944, which repealed the Stone Quarries Act 1910 and its amendments, includes any place with a face of more than 15ft. in depth, in which persons work in excavating any kind of material from the earth, with the exception of coal (other than opencast coal workings), gold, schistite, or petroleum. It does not apply to any road or railway cutting, or to excavations for buildings, but does include any tunnel of more than 50 ft. in length, in the construction of which explosives are used. The Quarries Amendment Act 1951 places opencast coal workings under the scope of the Quarries Act 1944.

PERSONS ENGAGED.—The following table shows the number of persons employed in or about mines and stone quarries during each of the last five years.

—	1948	1949	1950	1951	1952
Metalliferous mines	1,058	923	946	915	536

—	1948	1949	1950	1951	1952
Coal mines	5,582	5,877	5,588	5,062	5,092
Stone quarries and tunnels	2,215	2,270	2,405	1,916	2,732
Totals	8,855	9,070	8,939	7,893	8,360

Accidents in mining and quarrying operations in 1952, with 1951 figures in parentheses, resulted in four (5) deaths in coal mines, nil (nil) in metalliferous mines, and two (5) in quarries. In addition, nineteen (21) persons were seriously injured in coal mines, nil (nil) in metalliferous mines, and fourteen (5) in quarries.

STATE AID TO MINING.—State aid to mining in New Zealand is given in several forms—viz., (1) geological survey and bulletins; (2) financial aid to prospecting; (3) schools of mines; (4) subsidized roads to mining fields.

During the year the Geological Survey carried out the following programme:—

Regional Geology. *North Auckland.*—The geology of the Maungataniwha Subdivision has been written and work on Whangape Subdivision is progressing. Investigation has been made of limestone deposits for agricultural use and of water-supply problems.

Ngaruawahia.—The survey of the Waikato Coalfield has been completed, the Retaruke and Kawhia Coalfields investigated, and the Maramara Coalfield examined in detail. Subsurface water supplies in the Pukekohe district were investigated to ascertain the possibility of sea-water infiltration and depletion of parched-ground water. An area of marginal grade sulphide in the Thames district was examined as a possible source of sulphur for the fertilizer industry.

Rotorua.—The bulk of the year's effort has been directed to the development of the geothermal resources of the Rotorua-Taupo district, more particularly in the Wairakei area. Short reports were prepared on the thermal areas of Orakei Korako, Te Kopu, Waikei, and Waitapu in connection with the proposed production of heavy water. Dam and power-station sites, and quarry sites for aggregate and materials suitable for pozzolana, have been investigated. Drill sites for potable and thermal waters have been indicated. As opportunity permitted, field work on the Tongariro Subdivision was undertaken and the eruptive activity of Ngauruhoe recorded.

Napier.—More time has been devoted than formerly to the study of sub-surface geology in relation to water supply in the Hawke's Bay district. Problems of industrial and domestic supplies have been given attention, while erosion problems in relation to soil conservation were studied. Limestone for agriculture and pozzolana for cement have been investigated.

Christchurch.—Considerable progress has been made with the collection and completion of information for a bulletin on the geology and ground resources of mid Canterbury. Groundwater conditions in existing and proposed irrigation areas in Canterbury have been investigated and the supply of hot water at Marua Hot Springs, Nelson, investigated. Clays for brick and pipe manufacture, quartz sands for glassmaking, and limestones for agricultural use were examined, and information on Canterbury bentonites compiled.

Greymouth.—The survey of the Reefton and Garvey Creek Coalfields has been extended and a report written on the prospects of coal mining in Collingwood district. A detailed report on the distribution of coals of different coquina varieties within Paparua Mine has been prepared. Limestone at Jackson's Bay was shown to be suitable for top-dressing.

Invercargill.—Field work for the Hauroko bulletin was completed, maps drawn, and the text is in preparation. Field work is progressing in an area in South-Central Southland within which are extensive deposits of limestone suited for top-dressing and cement manufacture. The survey will also indicate the extent of the southern lignites and yield information on the availability of subsurface water. Problems arising during the development of Roxburgh hydro-electric scheme were also investigated. The area covered by the Maniototo irrigation scheme was inspected. Good ball clays were discovered in Ohai and Central Otago.

Paleontology.—The Palaeontologists spent much of their time servicing field geologists and working on departmental and other publications. The routine service work brings to light many problems for research, but the time left for such original work is inadequate to do it justice.

Research was undertaken on Terrestrial Foraminifera and Ostracoda from the Oamaru and Wangamui districts, on the first Jurassic Foraminifera recorded from New Zealand, and on fossils in phosphatic muds collected by R.S.S. *Discovery II* from the sea bed east of New Zealand. Detailed studies were made of two groups of fossil molluscs, North Auckland Permian corals were identified, and a report obtained on Devonian corals from Reefton. Palaeobotanical work included a study of Mesozoic and Tertiary spores and pollen grains, the zoning of the Ohai coal measures, and identification of fossil leaves and seeds from several districts.

Petrology.—Service work for the district geologists, for Geological Survey bulletins, and for Government Departments has occupied a considerable amount of the time of the Petrology Section. Many examinations have been made to test the suitability of aggregate materials for use in all the main hydro-electric projects, for the Marupara scheme, and the Tauranga harbour works. Cores from the drilling at Wairakei were studied to assist the geothermal investigations. Numerous petrographic examinations were undertaken to further the use of pozzolanas and perlitic and the possible use of dunite in the production of fertilizer. The Miriraka tunnel was inspected regularly. The Survey's assessment of the radioactive minerals in New Zealand was confirmed by the visit of overseas specialists. Close co-operation was maintained with the Dominion Laboratory in the identification of minerals and oil residues, the examination of moulding sands, and study of materials which may cause silicosis.

Economic and Engineering Geology.—Deposits of pumice and diatomite, the two types of material in New Zealand that have proved by standard tests to date to be suitable for pozzolana, have been investigated in collaboration with Dominion Laboratory and Dominion Physical Laboratory. There is a wealth of pumice over extensive areas of the North Island and apparently considerable reserves of diatomite in the Rotorua district; so far, the only satisfactory material known in the South Island is diatomite, of which the known reserves are small.

In conjunction with Ceramics Research Association, extensive feldspar resources of satisfactory grade for ceramics have been located in the South Island. Extensive deposits of dunite suitable for the manufacture of silico-phosphate fertilizer have been proved in Dun Mountain, and adequate reserves of serpentine are known in the South Island; but the bulk of these rocks are, unfortunately, distant from centres of fertilizer manufacture.

Ores of copper and manganese reported in the Pohangina district proved to be of no value and appear to have been derived from pillow lavas, or submarine flows interbedded with the greywacke of the Ruahine Range.

Dominion Laboratory.—The following is a summary of the work carried out at the Dominion Laboratory during 1952 in connection with the mining industries:

Pozzolanas.—The search was continued for deposits of pozzolanic materials, suitably located with regard to dam sites, and of the quality required as a replacement for some of the cement in dam construction. Work is now confined to pumicite from Kapokarua and diatomite from Whiraniaki in the North Island, and diatomite from Middlenarch in the South Island. The work and conclusions to date have been published in an Information Circular "Pozzolanas of New Zealand," recently issued.

Lead, Zinc, Copper, Ores.—Assistance was given to the Auckland Smelting Co., Ltd., which is prospecting the sulphide ores of Te Aroha in the hope of working them for base metals. Several samples were assayed for lead, zinc, copper, gold, and silver.

Bentonite.—Four samples of bentonite were certified for export.

Limestones.—A large number of limestones were examined for suitability for agricultural use, and a few limestones and marls tested as cement raw materials.

Feldspar.—Work was continued on the beneficiation of Kaiteriteri feldspar in connection with its possible use as a flux for whiteware in ceramics.

Antimony.—Several samples of stibnite were examined from Endeavour Inlet for antimony and arsenic content, also one from near Reefton for antimony, arsenic, and gold.

Schistite.—Samples of tailings from Glenorchy were assayed for gold and tungsten in the hope that tailings from old workings might prove a useful reserve of tungsten.

Barite Fluorspar.—An interesting new occurrence of barite-fluorspar Sinclair's Castle, lower Buller Gorge, was noted and referred to Geological Survey. No economic deposit has yet been located.

Iron Pyrites.—Samples examined during the year included twenty-two collected by Geological Survey and Mines Department from the Thames district, being part of an important survey which is being continued by the Thames School of Mines.

Dunite and Serpentine.—Samples of dunite (Mount Dun) and serpentine (d'Urville Island) were collected and analysed for suitability for use in the production of fused fertilizer by fusion in an electric furnace with rock phosphate. Many experimental fusions have been made and the conditions for producing a product of the requisite citric-solubility worked out. In view of the shortage of sulphur, this process may have industrial possibilities.

Manganese Ore.—Samples of manganese ore (and one of bismuth) were sent for assay from Fiji.

Perlitic.—The possibility of manufacturing perlitic, a lightweight material used in plasters and made by sudden expansion of certain rhyolitic rocks in a suitable furnace, was looked into. A furnace has been devised, and samples from likely deposits collected by Geological Survey are under test.

Miscellaneous.—Many samples were submitted by prospectors for identification or assay for gold and silver. Other samples included stone dusts, clays, vivianite, micaceous iron oxide, bore cores from Wairakei, mineral waters, diatomite, pumicite, and a lump of pure galena reported as being from Otoroahanga (doubtful).

Coal.—The Coal Research Section of the Laboratory analysed a large number of samples of coal sent in by the field officers of the Coal Surveys of the Mines Department, also limestone dusts, mine airs, and sundry industrial fuel samples.

Miscellaneous.—As an aid towards the development of the mining industry the Government offers varied and liberal assistance to prospectors in the form of subsidies, expert and technical advice, use of plant, etc. Subject to the provisions of the Mining Act, the holder of a valid miner's right is entitled to prospect for gold or any other metal or mineral (except coal) on any Crown land. He may also obtain authority from the Governor-General to prospect on Maori land, and he may also prospect on private land with the consent of the owner. Wardens in mining districts and Commissioners of Crown Lands in other districts may, with the consent of the Minister of Mines, grant prospecting licences for coal.

The total expenditure by way of direct assistance to mining in the year ended 31 March 1953, with 1951–52 figures in parentheses, was £5,121 (£2,482), of which £1,995 (£1,868) was advanced to promote and maintain coal production, and £3,126 (£614) to assist metal mining. In addition, the Mines Department expended £25,965 (£26,981) in prospecting and development work.

For the education of prospectors and mining students six schools of mines are subsidized by the Government, in addition to the Otago University School of Mines. The schools of mines are situated at Thames, Huntly, Westport, Reefton, Runanga, and Ohai. The expenditure on these schools by the Government during the year ended 31 March 1953 was £6,154, as against £4,905 during the previous year.

The expenditure in the form of subsidies and direct grants upon roads and tracks to mining areas during the year ended 31 March 1953 amounted to £4,581, as compared with £1,314 during the previous year.

BOARD OF EXAMINERS.—The Board of Examiners annually conducts examinations of candidates for, certificates as first class mine managers, and dregdemasters under the Mining Act, and for certificates as first class and second class mine managers, mine surveyors, and electricians under the Coal Mines Act. Examinations of candidates for certificates as underwriters and firemen-deputies under the Coal Mines Act are held annually. No candidate is permitted to present himself for examination unless he holds an authority from the Secretary to the Board of Examiners Thirty-six certificates were issued in 1952.

COAL-MINING DISTRICTS WELFARE AND RESEARCH FUND.—The Coal Mines Act 1925 required the owner of every coal mine to contribute 1/6d. per ton on all coal sold, for the relief of coal miners who may be injured while working, and for the relief of the families of coal miners who may be killed or injured.

Section 4 of the Coal Mines Amendment Act 1947 increased this levy from 1/6d. to 1d. per ton. This rise was made necessary by the imminent exhaustion of the fund, and during 1948 it was also necessary for the State coal mines to pay £1 000 in levies slightly in advance of the due date so that the current outgoings could be met. These contributions were paid to the Coal Miners' Relief Fund established under the Act, the fund being administered by the Public Trustee with the assistance of local committees.

The Coal Mines Amendment Act 1953 provided for the creation of a new fund, the Coal Mining Districts Welfare and Research Fund (replacing the former Relief and Amenities Funds), into which will be paid a levy at the rate of 6d. per ton on coal other than lignite and 1/4d. per ton for lignite. This fund will be used for coal miners' relief, provision of amenities, establishment and maintenance of rescue stations, research, and generally for the benefit of the industry. Payments will be made on the direction of the Coal Mining Districts Welfare and Research Council or the Local Committee (in relief cases).

Receipts from the levy of 1d. per ton amounted to £11,493 for the year ended 31 March 1953, and the total expenditure for the year was £6,924.

Interest earned amounted to £657, and the amount standing to the credit of the former relief fund on 31 March 1953 was £24,721.

At the close of the previous year the figures were: receipts, £11,204; expenditure, £5,797; interest, £505; balance as at 31 March 1953, £19,494.

During the year the Coal Mining Districts Amenities Council dealt with 101 applications from various organizations in mining townships for financial assistance.

Altogether 96 grants were made, involving a total sum of £42,700, and covering a wide range of useful amenities in the townships. In practically all cases the grants made were contingent upon additional money being raised locally for the various projects.

It is believed that the assistance given from the then Amenities Fund and the co-operation of the local authorities in providing for water and sewerage services is much appreciated by local residents.

The amount standing to the credit of that fund at the end of the year was £57,922, but nearly all of this amount has been committed.

Information concerning monetary benefits for miners incapacitated by miner's phthisis or any other occupational disease or heart disease contracted while working as a miner in New Zealand appears in Section 7A—Social Security.

Chapter 24. SECTION 24—FACTORY PRODUCTION

Table of Contents

STATISTICS of factory production were collected in New Zealand from 1867 to 1916 in conjunction with the population census; but, commencing with the year 1918–19, the collection became an annual one, the result being published in the Statistical Report on Factory Production.

For the year 1951–52 factories have been classified according to the New Zealand Standard Industrial Classification, and as a result much of this year's individual industry statistics will not compare with previously published figures. However, where possible, information for individual industries has been reclassified for the two previous years, and grand totals have been brought into line with the new classification from the year 1938–39. Apart from transfers within the framework of this series of factory production statistics, the adoption of the New Zealand Standard Classification has meant the elimination from the series altogether of three important industries. These relate to the logging operations of sawmills, previously included in sawmilling, and the generation and supply of gas and electricity, accounting in all for the activities of approximately 10,000 persons. Information on the generation and supply of gas and electricity is still the subject of an annual inquiry, but the results are no longer included in the series on factory production. Separate and detailed statistics for these industries are recorded in Section 26 of this Year-Book.

A review of the statistics of factory production for a number of years shows that, following the depression of the early nineteen-thirties, New Zealand industries had been making steady progress up to the outbreak of the Second World War, progress to which the establishment and growth of new industries had contributed considerably. This diversification and expansion, which received a further impetus as the result of the policy of import selection and control instituted by the Government towards the end of 1938, greatly increased the occupational range of factory employment, and local production of raw materials ceased to be the limiting factor in the growth of factory industries, local manufacturers being able to meet the country's needs in many products which previously had been almost, exclusively imported. This development stood New Zealand in good stead during the years of the Second World War when heavy calls were made on the industrial community to supply goods no longer obtainable from overseas for both the Armed Forces and civilian requirements. Not only were there large increases in the output of items for which appropriate manufacturing facilities and skills were available, but new facilities were provided, locally and by importation, and new skills acquired for production of items not previously manufactured in this country. On the other hand, during the war and in the post-war period labour shortages and difficulties experienced in obtaining overseas sources of supply of plant and raw materials have restricted the supply of certain commodities. In particular, the year 1951–52 saw developments in the Korean War and the local waterfront strike; both of these causing some disruption to the flow of factory production in New Zealand, the former causing material and plant shortages, and the latter delays in domestic handling of both materials and finished goods. Following that year the supply of materials improved rapidly and some relief to the labour market was found in immigration. Despite these obstacles, a continued expansion of New Zealand industries has been manifested in recent years.

The development of the country's hydro-electric power resources has been a potent factor in industrial growth. Until the outbreak of the Second World War curtailed deliveries of generating equipment and led to heavier demands on available supplies owing to the expansion of industry, ample power was available in both Islands at rates comparing very favourably with those in other and more highly industrialized countries. The over-all price per unit retailed in 1951–52 was 0.874d., with much lower rates for industrial supply in the urban areas. Shortage of generating capacity necessitated continuous control on the growth of load, and restrictions on the use of current were necessary from 1941 until late in 1952, when the supply was increased by the addition of Maraetai to the chain of Waikato generating stations, and most of these restrictions were removed. The State Hydro Electric Department is pressing forward extensive hydro-electric development schemes in both the North and South Islands.

SCOPE OF STATISTICS.—Statistics of factory production are collected annually by the Census and Statistics Department and embrace the activities of factories coming within the Manufacturing Division of the New Zealand Standard Industrial Classification of all Economic Activities, which is an adaptation of the United Nations International Standard Industrial Classification. The classification covers registered factories engaged in the manufacture, repair, or treatment of articles, employing at least two hands (including the working proprietor). Important factories not covered in this survey which, however, come within this section of the Standard Classification are—

1. Bakeries. 2. Cake and pastry kitchens. 3. Boot repairers. 4. Watch repairers. 5. Bespoke tailors, dressmakers, milliners. 6. Abattoirs. 7. Railway Workshops. 8. Naval Dockyard. 9. All one-man factories.

The effect of these limitations on the scope of the statistical inquiry is shown in the following table which compares the coverage of the survey with the total labour force engaged in the manufacturing industry as recorded by the Department of Labour and Employment. Actually the proportion of factory production covered in these statistics would be much greater than the ratios shown below, in that all establishments of any considerable size are included.

Year	Manufacturing Industry		
	Total Labour Force Engaged*	Labour Force Covered by Statistical Survey	Ratio of Statistical Coverage to Total†
	(000)	(000)	(Per Cent)
1949–50	179.2	133.2	74.4
1950–51	182.7	138.4	75.8
1951–52	184.3	144.4	78.3

* Average of October (earlier year) and April (later year) half-yearly surveys.

† On basis of labour force engaged.

The year covered by these statistics is generally the year ending 31 March, but concerns are permitted to furnish returns covering their financial year most closely corresponding to this period. In the case of the important semi-primary industries—butter, cheese, and other milk products, and meat freezing and preserving—the years correspond with the production seasons ending in June and September.

GENERAL SUMMARY.—The statistics in the table following illustrate the growth of New Zealand's factory production to its present standing.

Year	Number of Establishments	Persons Engaged	Salaries and Wages Paid		Cost of Materials	*Other Expenses* (i.e., Expenses of Operation Other Than Salaries and Wages and Cost of Materials)	Value of Output	Added Value
			£	£				
1910–11	3,483	45,924*	4,786,698†	18,782,929	£	£	£	£
1915–16	3,755	48,744*	5,791,704†	30,197,784	£	£	£	£
1920–21	4,022	69,681	13,172,996	52,933,494	£	£	£	£
1925–26	4,794	78,708	16,153,822	51,668,100	£	£	£	£
1930–31	5,194	77,914	15,617,052	48,458,356	£	£	£	£
1935–36	5,536	86,588	14,844,367	60,172,848	£	£	£	£
1936–37	5,728	96,401	18,333,077	70,938,165	£	£	£	£

* Productive employees only.

† Not available.

‡ Estimates based on results of sample survey carried out during that year.

Year	Number of Establishments	Persons Engaged	Salaries and Wages Paid	Cost of Materials	*Other Expenses* (i.e., Expenses of Operation Other Than Salaries and Wages and Cost of Materials)	Value of Output	Added Value
1937–38	5,924	102,344	20,981,587	75,371,558	£	£	£
1938–39	6,146	102,535	22,270,010	75,634,903	£	£	£
1939–40	6,342	108,722	24,460,549	85,243,383	£	£	£
1940–41	6,395	113,999	26,946,799	98,547,804	£	£	£
1941–42	6,367	117,214	29,504,299	102,260,860	£	£	£
1942–43	6,127	114,590	32,256,071	107,447,799	£	£	£
1943–44	6,202	117,864	34,433,075	112,883,932	£	£	£
1944–45	6,485	122,414	37,379,062	122,695,106	£	£	£
1945–46	6,991	128,208	41,499,113	123,508,438	£	£	£
1946–47	7,642	134,435	45,236,217	138,533,722	£	£	£
1947–48	7,966	140,267	52,132,689	181,773,218	£	£	£
1948–49†	8,000	142,500	56,000,000	203,000,000	£	£	£
1949–50	8,027	144,309	61,216,840	221,228,647	£	£	£
1950–51	8,318	148,940	70,286,677	274,165,777	£	£	£

NEW SERIES

Commenced 1951–52, with comparable totals for certain previous years.

1938–39	6,002	93,638	19,926,915	71,173,314	£	£	£
1941–42	6,225	108,275	26,812,793	96,481,965	£	£	£
1944–45	6,340	113,534	34,196,853	116,476,197	£	£	£
1947–48	7,822	130,504	47,940,238	174,845,301	£	£	£
1949–50	7,815	133,245	56,231,281	215,000,899	£	£	£
1950–51	8,113	138,435	65,005,458	266,884,566	£	£	£
1951–52	8,547	144,370	75,038,793	290,682,891	£	£	£

* Productive employees only.

† Not available.

‡ Estimates based on results of sample survey carried out during that year.

Factory production climbed fairly steadily from 1910–11 until a relatively high level was attained in 1929–30. During the depression of the early "thirties" there was a decided fall, but 1933–34 saw the commencement of a gradual recovery in industrial conditions. The pre-depression level was surpassed in 1936–37, and from then on each successive year has set new record high levels for factory production. During the Second World War there were temporary reductions in the numbers of establishments operated, and a fall in the number of persons engaged occurred in 1942–43 as a result of mobilization for home defence in the face of Japan into the war. However, by 1944–45 recovery had more than made up for these reductions, and from that year New Zealand industries have maintained the rapid progress characteristic of the immediate pre-war years, despite difficulties in the form of labour shortages and of the supply of imported plant and materials.

In the 8,547 establishments recorded in 1951–52 the number of persons engaged was higher by 5,935, or 4.3 per cent, than in the 8,113 establishments reported in 1950–51. The salaries and wages paid increased by £10,033,335, or by 15.4 per cent. The cost of materials used increased by £23,798,325, or 8.9 per cent, while the value of output rose by £50,837,926, or 13.4 per cent, resulting in an added value increasing by £27,039,601, or 23.9 per cent.

In making use of the following summary by provincial districts for the year 1951–52 it is necessary to keep in mind the fact that a company operating factories at more than one location only returns one schedule covering all factories. As a result, geographic breakdowns as shown in this and other summaries lose some of their accuracy. In all such cases, the actual number of factories operated by a company is tabulated in its proper locality, but the remainder of the figures is tabulated in total for the local locality.

Provincial District	Number of Establishments	Persons Engaged	Salaries and Wages Paid	Cost of Materials	Other Expenses of Operation	Value of Output	Added Value
			£	£	£	£	£
Auckland	3,237	56,872	29,726,851	126,787,067	£	£	£
Hawke's Bay	375	4,946	2,622,241	11,136,272	£	£	£
Taranaki	364	4,608	2,620,710	18,301,044	£	£	£
Wellington	1,876	32,812	17,328,445	61,439,109	£	£	£
Marlborough	106	881	423,695	1,438,769	£	£	£
Nelson	249	2,259	1,139,401	3,243,444	£	£	£
Westland	110	971	511,553	984,900	£	£	£
Canterbury	1,258	24,313	12,043,293	37,358,167	£	£	£
Otago—							
Otago	617	12,346	6,121,930	17,811,527	£	£	£
Southland	355	4,362	2,500,801	12,182,592	£	£	£
Totals	8,547	144,370	75,038,793	290,682,891	£	£	£

A further summary for the three latest years is now given. The figures for 1949–50 and 1950–51 will not agree with previously published statistics as they have been recast to compare with those tabulated for 1951–52. As mentioned earlier, factory production totals no longer include the activities of gas works, electric generation and supply stations, and the logging operations of sawmills.

	1949–50	1950–51	1951–52
Number of establishments	7,815	8,113	8,547
Persons engaged	No. 133,245	138,435	144,370
Production costs—			
Salaries, wages	£ 56,231,281	65,005,458	75,038,793
Materials	£ 215,008,899	266,884,566	290,682,891
Other expenses	£ 24,139,996	28,867,078	32,027,622
Totals	£ 295,380,176	360,757,102	397,749,306
Value of output	£ 317,342,946	380,200,428	431,038,354
Manufacturers' surplus	£ 21,962,770	19,443,326	33,289,048
Value added in manufacture	£ 102,334,047	113,315,862	140,355,463
Overtime worked by wage-earners	Hrs. 14,502,494	16,005,138	16,512,553
Volume Index for industry (Base 1949–50=1000)	1000	1046	1119
Premises and plant—			
Value at end of year—			
Land and buildings	£ 44,840,165	50,573,475	56,982,657
Plant and machinery	£ 33,152,731	37,043,374	40,797,235
Capital expenditure during year—			
Land and buildings	£ 3,413,981	4,751,816	5,370,345
Plant and machinery	£ 6,586,660	7,624,114	9,426,892

ESTABLISHMENTS AND EMPLOYEES.—There was an increase of 434 in the number of establishments reported in 1951–52 over the 1950–51 total, compared with an increase of 298 in 1950–51. The increases recorded in the immediate post-war years were numerically the highest recorded and compare with the percentage increases recorded after the First World War. The same factors operated after both wars—viz., the re-establishment of businesses closed down during the war period and the opening of new businesses by returned servicemen. In addition, in recent years the shortage of labour in the principal centres has resulted in branch factories and workrooms being opened in secondary towns to tap the labour resources in these areas.

The following table shows the number of factories in each provincial district for the three latest years.

Provincial District	Number of Factories		
	1949-50	1950-51	1951-52
Auckland	2,901	3,039	3,257
Hawke's Bay	341	363	375
Taranaki	352	369	364
Wellington	1,755	1,813	1,876
Marlborough	86	96	106
Nelson	236	238	249
Westland	102	95	110
Canterbury	1,129	1,176	1,258
Otago—			
Chago portion	582	583	617
Southland portion	331	341	355
Totals	7,815	8,113	8,547

The number of factories and persons engaged are next shown classified according to the New Zealand Standard Industrial Classification, introduced with the 1951-52 collection. Two prior years, 1949-50 and 1950-51, are also shown based on the same classification. Persons engaged include only those employed in the manufacturing activities of a factory. They include proprietors actively engaged in their own businesses but exclude all persons engaged in selling and distribution, such as salesmen, carters engaged solely on outward delivery of manufactured goods, and sales office staff. Figures for persons engaged refer to the average number over the whole year.

Industry Group	Number of Factories			Number of Persons Engaged		
	1949-50	1950-51	1951-52	1949-50	1950-51	1951-52
Food	829	822	812	23,965	24,251	25,113
Beverages	167	169	176	2,192	2,188	2,255
Tobacco manufactures	9	8	8	1,271	1,254	1,348
Textiles	171	177	186	7,782	7,970	7,689
Footwear, other wearing apparel, and made-up textile goods	1,020	1,142	1,194	24,027	25,561	26,170
Wood and cork products (except furniture)	939	952	1,121	9,693	9,916	11,848
Furniture and fittings	508	540	599	4,760	5,037	5,210
Paper and paper products	73	78	81	2,618	2,796	2,851
Printing, publishing, etc.	356	373	390	7,933	8,309	8,451
Leather and leather products (except footwear and apparel)	119	127	116	1,830	1,840	1,737
Rubber products	81	85	88	1,777	2,250	2,472
Chemicals and chemical products	222	211	218	4,399	4,533	4,674
Petroleum and coal products	23	24	24	229	229	225
Non-metallic mineral products n.e.i.	483	526	542	5,303	5,616	5,848
Basic metal manufactures	67	79	81	683	737	811
Metal products (except machinery and transport equipment)	348	361	384	5,546	5,964	6,149
Machinery (except electrical)	392	431	449	7,219	7,466	7,991
Electrical machinery and appliances	139	146	146	4,018	3,943	4,009
Transport equipment	1,664	1,636	1,698	15,176	15,633	16,649
Miscellaneous products	205	226	234	2,734	2,943	2,870
Totals	7,815	8,113	8,547	133,245	138,435	144,370

Further information is given in the following table on person engaged in 1951-52. Totals in each industrial class are shown by provincial districts.

Industry Group	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago		Total
									Otago Portion	Southland Portion	
<i>Number of Persons Engaged 1951-52</i>											
Food	9,735	1,911	1,995	3,592	174	482	26	3,692	2,011	1,495	25,113
Beverages	986	89	46	382	22	55	33	370	221	51	2,255
Tobacco manufactures	81	198	1,069								1,348
Textiles	1,675	108	1,850	4	11	15		2,382	1,479	165	7,689
Footwear, other wearing apparel, and made-up textile goods	11,774	262	331	6,176	191	70	89	4,927	2,183	167	26,170
Wood and cork products (except furniture)	5,527	435	577	1,513	85	635	493	1,282	637	664	11,848
Furniture and fittings	2,7	302	107	1,159	21	83	38	874	418	151	5,210
Paper and paper products	1,627			556				221	260	187	2,851
Printing, publishing, etc.	2,865	283	212	2,671	53	119	75	1,156	800	217	8,451
Leather and leather products (except footwear and apparel)	821	9	61	170	2	2		420	243	64	1,737
Rubber products	723	22	13	565	4	3		1,123	15	4	2,472
Chemicals and chemical products	1,319	205	224	1,579	31	11		590	707	8	4,674
Petroleum and coal products	124	5	5	55				36			225
Non-metallic mineral products n.e.i.	2,873	162	90	714	32	200	26	980	526	245	5,848
Basic metal manufactures	286	16	208			4		203	91	3	811
Metal products (except machinery and transport equipment)	2,812	24	96	1,619	9	33	2	952	544	58	6,149
Machinery (except electrical)	3,110	264	266	1,698	54	57	51	1,663	538	290	7,991
Electrical machinery and appliances	1,185	29	9	1,553				845	384	4	4,009
Transport equipment	6,028	609	592	4,840	173	489	123	2,054	1,162	579	16,649
Miscellaneous products	1,264	29	23	843	26			543	127	10	2,870
Totals	56,872	4,946	4,608	32,812	881	2,259	971	24,313	12,346	4,362	144,370

The distribution of the sexes among the persons engaged shows a considerable preponderance of males. In the five years prior to the Second World War the proportion of female employees in factories was steady at approximately 25 per cent. After rising rapidly to a peak of 31.5 per cent in 1942-43 as a result of additional women being recruited for factory work and men being called for military service, the proportion then fell equally rapidly back to the pre-war figure. The figure for the latest year is approximately 26 per cent, the rise being attributable to the exclusion from the series of such industries as logging, electricity and gas generation. The proportion of female employees in these latter industries was extremely small.

In the smaller districts there are few industries employing female labour to any great extent, but the male preponderance is considerably smaller in the four main districts, where female labour is in great demand mainly on account of the importance of the clothing and textile industries. The greater number of females in manufacturing industries are engaged in four classes: Food; footwear and other wearing apparel; textiles; and printing, publishing, etc. In 1951-52 these classes accounted for 76 per cent of all females in factories. In two classes only did the number of females exceed the number of males—viz., tobacco manufactures, where there were 182 females to every 100 males, and footwear and other wearing apparel, etc., where there were 282 females per 100 males. The following table shows the average number of males and females engaged according to industry groups for the year 1951-52.

Industry Group	Males	Females	Total
Food	21,308	3,805	25,113
Beverages	2,139	116	2,255
Tobacco manufactures	467	881	1,348
Textiles	4,172	3,517	7,689

Industry Group	Males	Females	Total
Footwear, other wearing apparel, and made-up textile goods	6,855	19,315	26,170
Wood and cork products (except furniture)	11,475	373	11,848
Furniture and fittings	4,773	437	5,210
Paper and paper products	1,743	1,108	2,851
Printing, publishing, etc.	6,576	1,875	8,451
Leather and leather products (except footwear and apparel)	1,294	443	1,737
Rubber products	2,057	415	2,472
Chemicals and chemical products	3,564	1,110	4,674
Petroleum and coal products	218	7	225
Non-metallic mineral products n.e.i.	5,517	331	5,848
Basic metal manufactures	773	38	811
Metal products (except machinery and transport equipment)	5,372	777	6,149
Machinery (except electrical)	7,626	365	7,991
Electrical machinery and appliances	3,169	840	4,009
Transport equipment	15,864	785	16,649
Miscellaneous products	1,894	976	2,870
Totals	106,856	37,514	144,370

Further information is available in the table below on the extent to which females are engaged in factories in New Zealand. This table gives by provincial districts the number of males per 100 females engaged, and the total persons engaged per thousand of population.

Provincial District	Males	Females	Total	Number of Males Per 100 Females	Total Population at 1 April 1952	Total Persons Engaged Per Thousand of Population
Auckland	41,252	15,620	56,872	264	764,917	75
Hawke's Bay	4,130	816	4,946	506	93,000	53
Taranaki	4,119	489	4,608	843	88,400	52
Wellington	23,314	9,498	32,812	245	400,900	82
Marlborough	703	178	881	395	23,500	37
Nelson	2,002	257	2,259	779	68,800	33
Westland	880	91	971	967	18,400	53
Canterbury	17,617	6,696	24,313	263	286,413	85
Otago—						
Chago portion	8,917	3,429	12,346	260	161,800	76
Southland portion	3,922	440	4,362	891	78,600	73
Totals	106,856	37,514	144,370	285	1,984,730	75

A classification of the establishments, according to the number of persons engaged, is given at five-yearly intervals from 1924-25 onwards. Figures for the latest year 1951-52 are also included, but are not strictly comparable with the other years shown. As mentioned earlier, the series no longer includes certain sectors of production previously included—principal omissions being the logging activities of sawmills and the operations of gas and electric supply stations. A further note of explanation should be mentioned regarding tables published on size of establishment. The general practice of accepting consolidated returns covering several factories does not permit a really accurate classification of factories. Averaged figures of both total and persons engaged, with no allowance for varying size of the industrial unit, do not give a true story in these cases.

Year	Factories With Persons Engaged Numbering—				Totals	
	10 or Under	11-20	21-50	51-100	Over 100	
<i>Number of Factories</i>						
1924-25	2,972	720	570	155	121	4,538
1929-30	3,476	800	591	164	137	5,168
1934-35	3,725	764	496	143	142	5,270
1939-40	4,218	957	772	212	183	6,342
1944-45	4,139	1,046	833	270	197	6,485
1949-50	4,993	1,409	1,106	312	207	8,027
1951-52	5,444	1,535	1,075	293	200	8,547
<i>Number of Persons Engaged</i>						
1924-25	12,658	10,690	18,067	11,094	24,674	77,183
1929-30	15,474	11,785	17,977	11,658	25,967	82,861
1934-35	14,901	11,321	15,309	9,716	28,111	79,358
1939-40	17,212	14,048	23,316	14,737	39,409	108,722
1944-45	18,382	15,547	25,787	18,809	43,889	122,414
1949-50	24,881	20,608	34,386	21,304	43,530	144,309
1951-52	26,481	21,793	32,899	19,976	43,221	144,370

The classification according to the number of persons engaged shows clearly that, judged by the standards of highly industrialized communities, the average size of the industrial unit in New Zealand is small. Factories employing ten persons or under accounted for 63.7 per cent of the total number of factories in 1951-52.

A further break up by employment groups, this time by industrial classes, is shown in the following table, which gives both the number of establishments and persons engaged in each industrial class for the year 1951-52.

Industry Group	Establishments (E)	Persons (P)	Factories With Persons Engaged Numbering—						Total
			Under 6	6 to 10	11 to 20	21 to 50	51 to 100	101 to 200	
Food	E	271	225	117	132	22	13	32	812
	P	885	1,724	1,617	4,097	1,513	2,031	13,246	25,113
Beverages	E	94	34	24	18	5		1	176
	P	279	268	350	569	462			327
Tobacco manufactures	E			1				4	8
	P			15		66	628	639	1,348
Textiles	E	37	28	38	42	15	20	6	186
	P	121	226	552	1,344	1,145	2,550	1,751	7,689
Footwear, other wearing apparel, and made-up textile goods	E	227	267	310	274	93	19	4	1,194
	P	781	2,116	4,636	8,453	6,478	2,685	1,021	26,170
Wood and work products (except furniture)	E	447	310	242	105	12	5		1,121
	P	1,407	2,335	3,506	3,092	784	724		11,848
Furniture and fittings	E	309	134	103	49	3	1		599
	P	944	983	1,490	1,485	202	106		5,210
Paper and pulp products	E	11	17	12	24	12	3	2	81
	P	39	134	185	858	688	449	498	2,851
Printing, publishing, etc.	E	147	82	65	59	23	5	9	390
	P	476	637	913	1,734	1,501	740	2,450	8,451

Industry Group	Establishments (E) Persons (P)	Factories With Persons Engaged Numbering—							Total							
		Under 6		6 to 10		11 to 20		21 to 50		51 to 100		101 to 200		Over 200		
		E	P	E	P	E	P	E		P	E	P	E	P	E	P
Leather and leather products (except footwear and apparel)	E	55	26	15	11	5	4									116
	P	154	205	203	356	314	505									1,737
Rubber products	E	46	16	12	8		1	5							88	
	P	151	113	155	245		111	1,697							2,472	
Chemicals and chemical products	E	73	53	40	32	8	10	2							218	
	P	199	408	587	1,071	582	1,391	436							4,674	
Petroleum and coal products	E	11	6	6			1								24	
	P	50	37	85		53									225	
Non-metallic mineral products n.e.i.	E	296	127	71	33	8	5	2							542	
	P	928	964	1,020	955	568	749	664							5,848	
Basic metal manufactures	E	29	25	20	7										81	
	P	106	196	288	221										811	
Metal products (except machinery and transport equipment)	E	149	97	52	59	16	11								384	
	P	507	739	721	1,797	945	1,440								6,149	
Machinery (except electrical)	E	187	84	69	74	25	9	1							449	
	P	635	647	971	2,320	1,823	1,243	352							7,991	
Electrical machinery and appliances	E	44	26	32	22	13	6	3							146	
	P	138	202	448	760	845	920	696							4,009	
Transport equipment	E	886	402	274	99	25	7	5							1,698	
	P	3,067	2,931	3,566	2,695	1,649	1,022	1,719							16,649	
Miscellaneous products	E	111	55	32	27	6	3								234	
	P	349	400	485	847	358	431								2,870	
Totals	E	3,430	2,014	1,535	1,075	295	126	74							8,547	
	P	11,216	15,265	21,793	32,899	19,976	17,725	25,496							144,370	

SALARIES AND WAGES.—The figures relating to the amounts paid as salaries and wages include amounts paid as bonuses and for overtime, also amounts drawn in lieu of salary by working proprietors. The amounts received by male and female employees (inclusive of all groups—executive, clerical, and wage earning), and the average amount received per employee of each sex, as recorded in the last five collections, are set out below. Although total figures for 1951–52 are on a different basis from those for the previous years shown owing to the exclusion of certain sectors of production, the average salary and wage quoted can be considered reasonably comparable. For the year 1951–52 both males and females recorded increased average earnings over the previous year, of 10.5 and 10.8 per cent respectively.

Year	Males		Females		Both Sexes	
	Total	Average	Total	Average	Total	Average
	£	£	£	£	£	£
1946–47	38,839,645	385	6,496,572	194	45,336,217	337
1947–48	44,760,957	421	7,371,732	216	52,132,689	372
1949–50	52,386,829	481	8,930,011	253	61,316,840	425
1950–51	59,710,990	535	10,675,687	286	70,386,677	473
1951–52	63,151,272	591	11,887,521	317	75,038,793	520

The averages shown relate to all persons engaged, irrespective of age, industry, status, and personal occupation, and year-to-year comparisons may also be affected by changes in any of these factors. The figures do, however, give an indication of the increased earnings of factory workers in recent years, the average for males having risen by 535 per cent and for females by 63.4 per cent since 1946–47. Of interest also is the relative improvement in the earnings of female wage earners over the same period, whereas in 1946–47 the figure for average earnings of females was 50.4 per cent of the corresponding figure for males, in 1951–52 the ratio had increased to 53.6 per cent. Incidentally in 1938–39 the average earnings of females was only 42.5 per cent of those of male workers.

The amount of salaries and wages paid in each industrial group and in all industries during the last three years is given hereunder.

Industry Group	Salaries and Wages Paid (£000)		
	1949–50	1950–51	1951–52
	£	£	£
Food	11,842	13,529	15,352
Beverages	1,057	1,134	1,258
Tobacco manufactures	424	464	530
Textiles	2,985	3,377	3,688
Footwear, other wearing apparel, and made-up textile goods	7,719	8,981	10,202
Wood and cork products (except furniture)	4,477	5,145	6,619
Furniture and fittings	1,866	2,223	2,563
Paper and pulp products	1,073	1,298	1,429
Printing, publishing, etc.	3,497	4,033	4,495
Leather and leather products (except footwear and apparel)	761	864	907
Rubber products	844	1,188	1,497
Chemicals and chemical products	1,928	2,203	2,544
Petroleum and coal products	115	131	143
Non-metallic mineral products n.e.i.	2,420	2,767	3,250
Basic metal manufactures	333	389	486
Metal products (except machinery and transport equipment)	2,483	3,005	3,494
Machinery (except electrical)	3,212	3,754	4,469
Electrical machinery and appliances	1,666	1,785	2,036
Transport equipment	6,533	7,492	8,743
Miscellaneous products	991	1,243	1,334
Totals	56,231	65,005	75,039

In the following table an analysis is made of the 1951–52 totals according to provincial districts in which the industries were carried on.

Industry Group	Otago									
	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago Portion	Southland Portion
	Salaries and Wages Paid (£000)									
Food	5,812	1,149	1,313	2,360	112	244	12	2,214	1,118	1,019
Beverages	527	49	21	227	10	32	16	217	132	26
Tobacco manufactures										
Textiles	845	56		893			5	1,096	711	78
Footwear, other wearing apparel, and made-up textile goods	4,687	85	114	2,442	75	22	35	1,901	790	52
Wood and cork products (except furniture)	3,196	231	326	809	40	342	297	656	331	390
Furniture and fittings	1,060	145	46	583	10	34	16	402	192	76
Paper and paper products	878			779				81	97	95

* To avoid disclosure of details of individual establishments, figures have been included in those for Miscellaneous products.

Industry Group	Otago										
	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago Portion	Southland Portion	
	Salaries and Wages Paid (£000)										
Printing, publishing, etc.	1,541	137	110	1,473			61	37	612	383	113
Leather and leather products (except footwear and apparel)	426	4	*	80	*	*			202	160	31
Rubber products	398	13	*	395	*	*			670	9	*
Chemicals and chemical products	723	97	144	851	17	*			318	384	*
Petroleum and coal products	80	*	*	35					22		
Non-metallic mineral products n.e.i.	1,563	91	50	426	17	121	15	520	309	137	
Basic metal manufactures	174	*	*	130	*	*			112	54	*
Metal products (except machinery and transport equipment)	1,606	12	52	925	*	16	*	535	313	29	
Machinery (except electrical)	1,832	144	137	980	24	31	*	866	263	163	
Electrical machinery and appliances	595	15	4	791				398	231	*	
Transport equipment	3,159	302	272	2,843	73	221	50	964	580	278	
Miscellaneous products	625	92	32	806	19	15	29	257	63	14	
Totals	29,727	2,622	2,621	17,328	424	1,139	512	12,043	6,122	2,501	

* To avoid disclosure of details of individual establishments, figures have been included in those for Miscellaneous products.

A further analysis of salaries and wages paid is given in the table below for 1951–52, and shows the amounts paid to working proprietors, managers, clerical staff, and those paid to other employees, i.e., wage earners. As mentioned earlier, drawings in lieu of salaries are included for proprietors actively engaged in the business.

Industry Group	Working Proprietors, Managers, Clerical Staff/Wage-earning Employees						All Employees		
	Males		Females		Males	Females	Males	Females	Total
	Salaries and Wages Paid, 1951–52 (£000)								
Food	2,029		280		12,141	902	14,170	1,182	15,352
Beverages	244		31		978	4	1,223	35	1,258
Tobacco manufactures	56		23		209	242	265	264	530
Textiles	399		83		2,075	1,131	2,474	1,214	3,688
Footwear, other wearing apparel, and made-up textile goods	1,220		413		2,848	5,721	4,068	6,134	10,202
Wood and cork products (except furniture)	1,164		79		5,338	38	6,502	117	6,619
Furniture and fittings	503		38		1,924	99	2,426	137	2,563
Paper and paper products	215		32		889	293	1,104	325	1,429
Printing, publishing, etc.	848		202		3,084	360	3,933	562	4,495
Leather and leather products (except footwear and apparel)	141		23		619	125	760	147	907
Rubber products	250		26		1,119	102	1,370	128	1,497
Chemicals and chemical products	498		99		1,699	248	2,197	347	2,544
Petroleum and coal products	29		2		112		141	2	143
Non-metallic mineral products n.e.i.	543		43		2,604	59	3,148	102	3,250
Basic metal manufactures	104		10		369	3	473	13	486
Metal products (except machinery and transport equipment)	609		71		2,627	187	3,236	258	3,494
Machinery (except electrical)	828		107		3,516	19	4,343	126	4,469
Electrical machinery and appliances	284		53		1,476	223	1,760	276	2,036
Transport equipment	1,664		203		6,845	31	8,509	234	8,743
Miscellaneous products	251		50		798	236	1,049	286	1,334
Totals	11,880		1,867		51,271	10,021	63,151	11,888	75,039

The following statement shows the average earnings of males and females for the past ten years, and although the basis of the calculations has changed in the latest year, it is considered that the average salary or wage shown for 1951–52 is reasonably comparable with the figures for previous years.

Year	Proprietors Actively Engaged/Managers, Overseers/Accountants, Clerks/Wage-earning Employees						Total			
	Males		Females		Males	Females				
	Average Salary or Wage (£)									
1941–42	286	233	516	288	292	151	283	133	301	137
1942–43	315	259	547	315	325	163	324	149	341	152
1943–44	342	282	569	314	329	173	331	157	350	162
1944–45	360	322	586	339	340	181	343	168	362	172
1945–46	367	326	596	350	347	193	359	180	377	184
1946–47	372	320	614	365	368	201	365	189	385	194
1947–48	428	336	661	409	406	224	401	211	421	216
1949–50	491	346	730	463	460	266	460	248	481	253
1950–51	531	399	797	499	511	296	514	281	535	286
1951–52	596	459	871	525	576	330	566	311	591	317

MOTIVE POWER.—A supply of cheap motive power is essential for industrial development. New Zealand industries were formerly somewhat handicapped in this respect, long railway hauls and, in some instances, sea carriage being involved in the transport of coal from the mines to the factories. The difficulties in the way of obtaining a supply of cheap motive power have been met by the development by the State of hydro-electric schemes, for which New Zealand is topographically well suited. As mentioned earlier in these notes, restrictions in the supply have been necessary during recent years, but since the addition of Mataretu to the chain of Waikato stations most of these restrictions have been removed.

The following table shows the numbers and aggregate horsepower of each class of engine used in factories for 1927–28, 1937–38, 1947–48, and the last two years available.

Class of Engine	1927–28	1937–38	1947–48	1950–51	1951–52	
Electric	No.	12,428	25,626	70,274	96,147	104,583
	H.P.	111,942	181,757	342,408	423,275	455,735
Steam</						

Industry Group	Rated Horsepower of Engines in Use, 1951-52					
	Electric	Steam	Petrol and Light Oil	Heavy Oil	Other	Total
Food	123,510	13,899	514	1,949	4,174	144,046
Beverages	7,940	264	129	493	525	9,351
Tobacco manufactures	982					982
Textiles	23,039	1,368	997	989		26,393
Footwear, other wearing apparel, and made-up textile goods	11,770	168	444	1,054	76	13,512
Wood and cork products (except furniture)	74,755	10,523	11,915	14,462	3,399	115,054
Furniture and fittings	13,493	8				13,501
Paper and paper products	18,879	267	116	2	60	19,324
Printing, publishing, etc.	13,876		173	1,134	673	15,856
Leather and leather products (except footwear and apparel)	5,629	108	6	252	15	6,010
Rubber products	17,871	121	192	33	108	18,325
Chemicals and chemical products	24,313	520	640	863	179	26,515
Petroleum and coal products	1,638	4	250		404	2,296
Non-metallic mineral products n.e.i.	43,114	231	1,323	1,682	46	46,396
Basic metal manufactures	3,980	619	90	55		4,744
Metal products (except machinery and transport equipment)	17,505	39	122	1,322	9	18,997
Machinery (except electrical)	21,928	10	1,012	468	65	23,483
Electrical machinery and appliances	5,667	5	21	90	58	5,841
Transport equipment	20,272	150	888	984	88	22,382
Miscellaneous products	5,574		18	40	12	5,644
Totals	455,735	28,304	18,850	25,872	9,891	538,652

CONSUMPTION OF COAL.—During the year 1951-52, 860,536 tons of New Zealand coal were used in industries covered by the statistics of factory production. Comparable figures for the two previous years were, 1950-51, 823,776 tons, and 1949-50, 844,735 tons. It is important to note that the new series of factory production statistics no longer includes the activities of the gas-making industry and electric generation and supply stations. These two industries for the year 1951-52 used 266,152 tons and 62,516 tons of coal respectively.

The following table shows for the year 1951-52 the consumption of coal by industrial groups.

Industry Group	Tons of Coal Used, 1951-52
Food	474,196
Beverages	20,744
Tobacco manufactures	1,788
Textiles	39,610
Footwear, other wearing apparel, and made-up textile goods	3,044
Wood and cork products (except furniture)	3,570
Furniture and fittings	121
Paper and paper products	64,009
Printing, publishing, etc.	682
Leather and leather products (except footwear and apparel)	8,220
Rubber products	15,706
Chemicals and chemical products	29,069
Petroleum and coal products	29,295
Non-metallic mineral products n.e.i.	162,763
Basic metal manufactures	1,942
Metal products (except machinery and transport equipment)	2,186
Machinery (except electrical)	1,220
Electrical machinery and appliances	919
Transport equipment	614
Miscellaneous products	938
Total	860,536

Approximately 81 per cent of the amount of coal used is accounted for in three groups: Food, paper and paper products, and non-metallic mineral products n.e.i. Individual industries using more than 10,000 tons of coal in 1951-52 are as follows.

Industry	Tons
Butter, cheese, and other milk products	270,873
Meat freezing and preserving	146,935
Cement	86,222
Pulp paper and paperboard	62,703
Structural clay products	39,763
Food preparations n.e.i.	32,305
Petroleum and coal products	27,446
Lime	23,342
Woolen milling	20,669
Brewing of ale and stout	19,521
Rubberware	14,664
Woolscouring	11,029
Vegetable and animal oils and fats	10,539

MATERIALS.—The value of materials used does not afford a very satisfactory basis of comparison as between one industry or industrial group and another, for the reason that the changes wrought during the process of manufacture vary considerably in degree. An example of the wide differences which may occur in the ratio of cost of materials to value of goods produced will be seen in the food group and the wood and cork products (except furniture) group.

Totals for the latest year show that the cost of materials used in food manufacture was £145,719,000 and the goods produced were valued at £177,088,000, while the materials used in the manufacture of wood and cork products cost £13,254,000 and finished goods produced were valued at £26,229,000.

The cost of materials used in each industrial group and in all industries during the last three years is given hereunder. All figures shown in these tables are comparable, being based on the new concept.

Industry Group	Cost of Materials Used £(000)		
	1949-50	1950-51	1951-52
Food	115,344	141,733	145,719
Beverages	3,027	3,380	3,716
Tobacco manufactures	3,413	3,609	3,928
Textiles	12,142	21,695	14,578
Footwear, other wearing apparel, and made-up textile goods	15,693	18,975	22,525

Industry Group	Cost of Materials Used £(000)		
	1949-50	1950-51	1951-52
Wood and cork products (except furniture)	10,435	11,576	13,254
Furniture and fittings	3,098	3,567	3,934
Paper and paper products	3,096	4,050	5,808
Printing, publishing, etc.	3,233	3,769	4,799
Leather and leather products (except footwear and apparel)	2,219	3,065	3,191
Rubber products	1,341	2,343	4,970
Chemicals and chemical products	9,656	10,641	14,941
Petroleum and coal products	668	776	974
Non-metallic mineral products n.e.i.	2,921	3,402	4,245
Basic metal manufactures	831	1,023	1,874
Metal products (except machinery and transport equipment)	4,829	5,486	7,060
Machinery (except electrical)	5,77	7,028	10,053
Electrical machinery and appliances	3,174	3,342	4,346
Transport equipment	13,283	15,618	18,597
Miscellaneous products	1,429	1,807	2,171
Totals	215,009	266,885	290,683

An analysis by provincial districts of the cost of materials used for the year 1951-52 is given below.

Industry Group	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago		
									Otago Portion	Southland Portion	
Cost of Materials Used £(000)											
Food	71,454	8,322	15,138	18,763		982	1,977	295	12,925	6,862	9,002
Beverages	1,817	108	40	558		26	65	30	702	324	45
Tobacco manufactures	"	"	"	"		"	"	"	"	"	"
Textiles	3,103	871	317	3,293		"	"	4	4,696	2,163	445
Footwear, other wearing apparel, and made-up textile goods	10,158	139	317	5,652		182	28	82	4,194	1,660	113
Wood and cork products (except furniture)	6,976	383	637	1,961		60	592	423	1,183	555	485
Furniture and fittings	1,837	135	43	919		13	28	21	478	379	81
Paper and paper products	3,613			1,025					239	251	681
Printing, publishing, etc.	1,763	126	82	1,428		15	36	16	819	423	90
Leather and leather products (except footwear and apparel)	1,369	7	"	168		"	"	"	596	589	452
Rubber products	1,325	25	"	1,475		"	"	"	2,084	28	"
Chemicals and chemical products	5,148	150	1,347	4,685		15	"	"	1,128	2,400	"
Petroleum and coal products	321	"	"	540		"	"	"	96	"	"
Non-metallic mineral products n.e.i.	2,279	132	77	474		17	166	19	534	383	163
Basic metal manufactures	1,175	"	313	"		"	"	"	212	156	"
Metal products (except machinery and transport equipment)	3,508	13	80	1,932		"	18	"	898	583	23
Machinery (except electrical)	3,482	195	175	1,851		15	33	"	3,733	315	229
Electrical machinery and appliances	1,614	22	6	1,835		"	"	"	644	221	"
Transport equipment	4,649	315	307	10,497		91	238	71	1,618	464	347
Miscellaneous products	1,196	193	52	4,070		23	62	24	579	55	27
Totals	126,787	11,136	18,301	61,439		1,439	3,243	985	37,358	17,811	12,183

* To avoid disclosure of details of individual establishments, figures have been included in those for Miscellaneous products.

A large proportion of the total cost of materials is accounted for by the food group which includes the semi-primary industries dealing with meat freezing and preserving and the manufacture of butter, cheese, and other milk products. In the latest year, for example, the cost of materials used by this group, £145,719,000, represented 50 per cent of the total cost of materials used by all industries, £290,683,000. For this reason, variations in the prices received for primary produce have a very marked effect on this total, and it should be remembered that, as these prices can be regarded as understated by the amount of any subsidies paid to primary producers, a similar understatement can be assumed in the cost of materials shown in these tables.

PRODUCTS.—The value of products is based upon the valuation of goods at the factory door.

In making use of the gross value of products it must be borne in mind that the figures include the value of raw materials operated upon, which value normally constitutes approximately two-thirds of the value of products. Where the products of one industry—for example, sawmilling—are treated again in other industries, such as furniture making, joinery, etc., part of the value of the timber shown as products of the former industry appears again as the materials of the latter industry and enters into the value of furniture and joinery made. Duplication of this kind is found in many industries.

The following tables show the gross value of products for each industrial group and for all industries for the last three years available. All figures shown in these tables are based on the new concept and are therefore comparable.

Industry Group	Products £(000)		
	1949-50	1950-51	1951-52
Food	138,561	161,657	177,088
Beverages	5,539	6,319	6,805
Tobacco manufactures	4,818	5,010	5,595
Textiles	17,566	28,213	21,255
Footwear, other wearing apparel, and made-up textile goods	26,797	32,261	37,281
Wood and cork products (except furniture)	18,772	21,318	26,229
Furniture and fittings	6,043	6,897	7,785
Paper and paper products	5,600	7,255	9,528
Printing, publishing, etc.	9,654	11,374	13,300
Leather and leather products (except footwear and apparel)	3,455	4,571	4,698
Rubber products	3,066	5,160	8,376
Chemicals and chemical products	14,458	16,284	21,398
Petroleum and coal products	1,005	1,091	1,331
Non-metallic mineral products n.e.i.	8,481	9,484	11,478
Basic metal manufactures	1,463	1,739	2,886
Metal products (except machinery and transport equipment)	9,118	10,590	13,447
Machinery (except electrical)	10,490	13,407	17,599
Electrical machinery and appliances	5,828	6,267	7,399
Transport equipment	23,569	27,450	32,948
Miscellaneous products	3,060	3,854	4,412
Totals	317,343	380,201	431,038

A similar analysis by provincial districts, but limited to the year 1951-52, is now given.

Industry Group	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago
----------------	----------	-------------	----------	------------	-------------	--------	----------	------------	-------

Industry Group	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	OTAGO PORTION	SOUTHLAND PORTION
	Products £ ('000)									
Food	82,687	10,470	17,709	23,486	1,117	2,439	318	17,342	9,226	11,294
Beverages	2,965	229	97	1,233	47	144	81	1,254	647	108
Tobacco manufactures	"	"	"	"	"	"	"	"	"	"
Textiles	4,685	976	"	5,040	"	"	11	6,585	3,365	582
Footwear, other wearing apparel, and made-up textile goods	16,927	281	503	9,312	287	58	130	6,826	2,775	184
Wood and cork products (except furniture)	13,520	861	1,227	3,461	129	1,221	1,001	2,430	1,189	1,191
Furniture and fittings	3,486	342	110	1,793	28	77	44	1,053	667	184
Paper and paper products	6,177	"	"	1,557	"	"	"	401	470	924
Printing, publishing, etc.	4,586	410	274	4,284	63	150	79	1,999	1,152	302
Leather and leather products (except footwear and apparel)	2,080	13	"	300	"	"	"	915	825	546
Rubber products	2,244	50	"	2,364	"	"	"	3,598	55	"
Chemicals and chemical products	7,218	341	1,912	6,662	48	"	"	1,802	3,322	"
Petroleum and coal products	530	"	"	621	"	"	"	150	"	"
Non-metallic mineral products n.e.i.	5,816	322	165	1,300	51	529	46	1,491	1,191	566
Basic metal manufactures	1,570	"	"	563	"	"	"	419	266	"
Metal products (except machinery and transport equipment)	6,306	31	174	3,882	"	46	"	1,789	1,140	65
Machinery (except electrical)	6,456	426	408	3,588	51	82	"	5,264	781	479
Electrical machinery and appliances	2,579	45	13	3,106	"	"	"	1,260	588	"
Transport equipment	10,175	777	772	14,807	211	602	157	3,299	1,365	784
Miscellaneous products	2,370	385	142	6,076	51	94	65	1,009	137	49
Totals	183,377	15,959	23,506	93,435	2,083	5,442	1,932	58,886	29,161	17,258

* To avoid disclosure of details of individual establishments, figures have been included in those for Miscellaneous products.

ADDED VALUE.—As indicated under the heading of "Products," the value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, for the reason that only part of this value is actually created by the manufacturing processes carried on in the industry itself. In many cases by far the larger portion of the value of products represents the value of the materials used. From a manufacturing standpoint, the best measure of the importance of an industry is the value created by the manufacturing operations carried on within the industry. This value is obtained in New Zealand by deducting the cost of materials used from the gross value of the products, and is referred to as the "added value."

The tables given herewith show the added value for each industrial group and for all industries for each of the last three years available, with an analysis of the 1951-52 totals according to the provincial districts in which the industries were carried on. All figures shown in these tables are comparable, being based on the new concept.

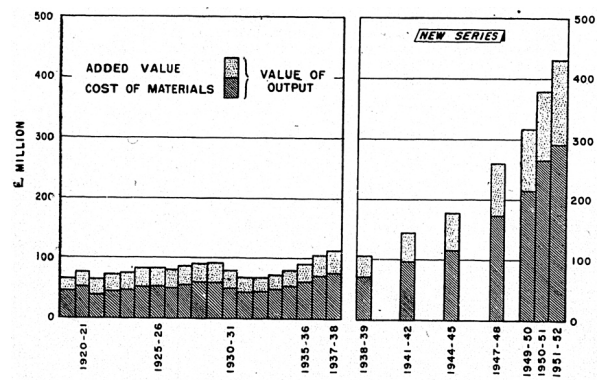
Industry Group	Added Value £('000)		
	1949-50	1950-51	1951-52
Food	23,217	19,924	31,369
Beverages	2,512	2,938	3,089
Tobacco manufactures	1,405	1,401	1,667
Textiles	5,424	6,518	6,678
Footwear, other wearing apparel, and made-up textile goods	11,104	1,285	14,756
Wood and cork products (except furniture)	8,337	9,742	12,975
Furniture and fittings	2,945	3,330	3,851
Paper and paper products	2,504	3,206	3,720
Printing, publishing, etc.	6,421	7,605	8,501
Leather and leather products (except footwear and apparel)	1,235	1,505	1,508
Rubber products	1,725	2,816	3,406
Chemicals and chemical products	4,803	5,643	6,456
Petroleum and coal products	337	316	357
Non-metallic mineral products n.e.i.	5,560	6,082	7,233
Basic metal manufactures	632	717	1,012
Metal products (except machinery and transport equipment)	4,289	5,104	6,386
Machinery (except electrical)	5,314	6,379	7,546
Electrical machinery and appliances	2,655	2,926	3,253
Transport equipment	10,285	11,832	14,351
Miscellaneous products	1,630	2,047	2,221
Totals	2,234	113,316	140,355

A similar analysis for 1951-52 by provincial districts is given below.

Industry Group	Auckland	Hawke's Bay	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	OTAGO PORTION	SOUTHLAND PORTION
	Added Value 1951-52 £('000)									
Food	12,233	2,148	2,571	4,723	135	462	23	4,418	2,364	2,293
Beverages	1,147	121	57	675	21	80	50	551	323	64
Tobacco manufactures	"	"	"	"	"	"	"	"	"	"
Textiles	1,583	105	"	1,747	"	"	7	1,889	1,202	138
Footwear, other wearing apparel, and made-up textile goods	6,770	141	186	3,660	104	29	48	2,632	1,115	71
Wood and cork products (except furniture)	6,544	478	590	1,500	70	629	579	1,247	635	705
Furniture and fittings	1,649	207	67	874	15	49	23	575	288	103
Paper and paper products	2,564	"	"	532	"	"	"	162	219	243
Printing, publishing, etc.	2,823	285	192	2,856	49	114	62	1,179	729	212
Leather and leather products (except footwear and apparel)	710	7	"	132	"	"	"	319	237	94
Rubber products	919	25	"	889	"	"	"	1,514	27	"
Chemicals and chemical products	2,070	190	565	1,977	33	"	"	674	922	"
Petroleum and coal products	209	"	"	81	"	"	"	54	"	"
Non-metallic mineral products n.e.i.	3,537	190	87	827	33	364	27	958	808	403
Basic metal manufactures	395	"	"	250	"	"	"	208	109	"
Metal products (except machinery and transport equipment)	2,798	18	94	1,950	"	28	"	891	557	42
Machinery (except electrical)	2,974	231	233	1,737	36	49	"	1,531	465	249
Electrical machinery and appliances	965	23	8	1,271	"	"	"	617	366	"
Transport equipment	5,526	462	465	4,309	121	364	86	1,680	901	437
Miscellaneous products	1,173	192	89	2,006	27	31	42	429	82	22
Totals	56,589	4,823	5,204	31,996	644	2,199	947	21,528	11,349	5,076

* To avoid disclosure of details of individual establishments, figures have been included in Miscellaneous products.

The development of factory production in New Zealand from 1919-20 onward is clearly portrayed in the following diagram, which also shows the relationship between cost of materials, added value, and value of output.



EXPENSES OF OPERATION.—Total operating costs of factory production for the year 1951-52 amounted to £97,749,306, of which salaries and wages accounted for £75,038,793, cost of materials for £290,682,891, and other expenses for £32,027,622, while value of output totalled £431,038,354.

The table below shows the principal items comprised in the figure for expenses of operation, other than salaries and wages and cost of materials, by industry groups for the year 1951-52.

Industry Group	Coal	Electricity	Coke, Gas, Oils, etc.	Insurance	Depreciation	Rent	Repairs and Maintenance	Others	Total
	£('000)								
Food	1,795	485	209	480	1,839	87	1,773	1,912	8,581
Beverages	91	32	53	41	283	8	204	251	962
Tobacco manufactures	9	4	2	15	52	5	26	225	338
Textiles	159	81	58	117	536	55	398	494	1,897
Footwear, other wearing apparel, and made-up textile goods	14	103	32	124	351	284	382	812	2,102
Wood and cork products (except furniture)	12	153	149	355	740	59	883	645	2,996
Furniture and fittings	1	28	3	73	88	66	81	153	493
Paper and paper products	182	38	8	59	200	25	198	166	876
Printing, publishing, etc.	3	54	28	80	394	73	232	849	1,713
Leather and leather products (except footwear and apparel)	27	14	6	31	48	16	80	66	290
Rubber products	69	49	49	43	485	11	77	296	1,079
Chemicals and chemical products	127	87	50	109	406	27	447	417	1,669
Petroleum and coal products	10	5	9	7	20	2	22	22	97
Non-metallic mineral products n.e.i.	696	141	262	105	438	29	490	369	2,530
Basic metal manufactures	8	13	45	13	56	11	37	93	276
Metal products (except machinery and transport equipment)	10	55	61	84	238	74	193	397	1,112
Machinery (except electrical)	6	62	70	122	243	68	223	493	1,287
Electrical machinery and appliances	3	46	53	119	37	37	98	305	707
Transport equipment	3	110	47	215	403	221	351	1,213	2,562
Miscellaneous products	6	22	6	32	107	45	74	167	461
Totals	3,231	1,582	1,193	2,157	7,046	1,204	6,269	9,345	32,028

CAPITAL INVESTED AND ASSETS.—Information as to the amount of capital invested in manufacturing industries was collected for some years, but the figures obtained were found to be unsatisfactory. The chief factors militating against the collection of reliable information have been the methods of accounting in use in many of the smaller establishments, and the difficulty of apportioning capital where an establishment is only partly manufacturing.

A more satisfactory indication of the capital investment in the manufacturing industry is obtained from figures of manufacturers' fixed assets. Not only are the figures more reliable than those for capital invested, but they do not suffer from the understatement of capital (from the economic viewpoint) which occurs in those cases where the factory premises, or, in some few cases, even the plant, is not owned by the manufacturer, but is rented. In these cases an estimate of the value of the rented asset has been obtained by capitalizing the annual rental shown. Approximations in the figures for fixed assets are also made where one building houses two or more factories carrying on different industries, necessitating an apportionment as between the industries. In most instances, too, fixed assets are stated at their book value, and this may be an overstatement due to insufficient

allowance having been made for depreciation, obsolescence, etc., or an understatement owing to appreciated site value, excessive allowance for depreciation, or currency depreciation resulting in the assets being understated in terms of their present carrying capacity or replacement cost. It is necessary to bear in mind these limitations to the accuracy of the figures of fixed assets appearing in the following table, which shows the values of these assets for each of the last three years together with an analysis by principal industries for 1951-52. For the year 1951-52 information is also shown by industry groups of the amounts expended during the year by way of capital additions and alterations. All figures shown in this table are based on the new concept and are therefore comparable.

Industry Group	Capital Additions and Alterations During the Year			Value at End of Year (Including Estimated Value of Rented Assets)		
	Land and Buildings	Plant and Machinery	Totals	Land and Buildings	Plant and Machinery	Totals
	£	£	£	£	£	£
Totals—						
1949-50	3,413,981	6,586,660	10,000,641	44,840,165	33,152,731	77,992,896
1950-51	4,751,816	7,624,114	12,375,930	50,573,475	37,043,374	87,616,849
1951-52—						
Food	1,532,079	2,108,501	3,640,580	13,786,452	9,890,123	23,676,575
Beverages	274,422	448,081	722,503	1,685,313	1,699,022	3,384,335
Tobacco manufactures	22,578	57,919	80,497	401,180	326,102	727,282
Textiles	200,936	689,881	890,817	2,811,602	2,606,303	5,417,905
Footwear, other wearing apparel and made-up textile goods	222,721	539,323	762,044	6,028,487	2,205,529	8,234,016
Wood and cork products (except furniture)	534,985	1,064,719	1,599,704	4,184,403	4,681,843	8,866,246
Furniture and fittings	93,209	100,543	193,752	1,712,927	646,152	2,359,079
Paper and paper products	108,923	300,340	409,263	1,189,111	1,257,466	2,446,577
Printing, publishing, etc.	286,418	861,564	1,147,982	3,143,203	3,000,787	6,143,990
Leather and leather products (except footwear and apparel)	63,784	80,853	144,637	523,755	296,377	820,132
Rubber products	114,535	265,247	379,782	1,442,705	1,951,141	3,393,846

Industry Group	Capital Additions and Alterations During the Year			Value at End of Year (Including Estimated Value of Rented Assets)		
	Land and Buildings	Plant and Machinery	Totals	Land and Buildings	Plant and Machinery	Totals
Chemicals and industrial products	307,843	428,613	736,456	2,642,956	1,945,866	4,588,822
Petroleum and coal products	14,766	24,881	39,647	116,546	123,378	239,924
Non-metallic mineral products n.e.i.	305,139	1,032,515	1,337,654	2,686,210	2,973,563	5,659,773
Basic metal manufactures	82,374	92,025	174,399	499,345	323,745	823,090
Metal products (except machinery and transport equipment)	219,027	311,106	530,133	2,377,161	1,515,190	3,892,351
Machinery (except electrical)	376,148	340,665	716,813	2,525,639	1,602,726	4,128,365
Electrical machinery and appliances	90,248	124,087	214,335	1,239,207	493,953	1,733,160
Transport equipment	455,026	432,618	887,644	6,833,392	2,620,189	9,453,581
Miscellaneous products	65,184	123,411	188,595	1,153,063	637,780	1,790,843
Totals, 1951-52	5,370,345	9,426,892	14,797,237	56,982,657	40,797,235	97,779,892

ORGANIZATION OF INDUSTRY.—New Zealand's industrial progress has been fairly rapid, but industry is as yet organized on a relatively small scale.

The law in New Zealand restricts the membership of a partnership to not more than twenty persons, a private company to not fewer than two or more than twenty-five persons, and a public company to not fewer than seven persons. Co-operation is characteristic of certain industries engaged in the processing of primary products, mainly butter and cheese manufacturing. As a result of a reclassification of industrial statistics to conform with the New Zealand Standard Industrial Classification, gasworks and electricity generation and supply are now excluded from the Municipal and Government sector.

Information as to the character of organization of the establishments engaged in factory production during 1951-52 is given in the following table.

Character of Organization	Number of Establishments	Persons Engaged	Horsepower Available	Cost of Materials Used or Operated Upon	Value of Manufactures or Products			Added Value	
					Total	Per Establishment	Total	Per Establishment	
				£(000)	£(000)	£(000)	£		
Individual	1,547	7,218	19,770	5,087	10,285	5,198	3,360		
Private firm or partnership	839	4,647	15,179	3,473	7,100	3,627	4,323		
Public registered company	880	45,206	209,452	86,355	135,046	48,691	55,331		
Private registered company	4,778	80,429	242,206	124,083	198,647	74,564	15,606		
Co-operative and miscellaneous	393	4,597	41,696	70,295	76,372	6,077	15,463		
Municipal and Government	110	2,273	10,349	1,390	3,588	2,198	19,982		
Totals	8,547	144,370	538,652	290,683	431,038	140,355	16,422*		
* Average of totals.									

As would be expected, the average size of establishments operated by public registered companies is larger than in any other type of industrial organization, the added value per unit being three and a half times as high as that for the next highest non-governmental type (private registered companies). Private companies, however, occupy a very high place, both numerically and in the share they contribute to the total added value created in New Zealand factories (52 per cent in 1951-52, as compared with 34 per cent in the case of public companies).

Examination of the statistics of added value over a series of years indicates that private companies have increased appreciably in relative importance, while the individual and partnership types of organization have declined. Very little change has occurred in the percentage of total added value attributable to the operations of public companies, or municipal and general governmental undertakings.

VOLUME OF FACTORY PRODUCTION.—In connection with the preparation of the series of index numbers of volume of production, as given in Section 19 of this Year-Book, a special series covering volume of production of the factory industries has been constructed. Index numbers have been computed from 1929-30 onwards for the factory industries as a whole, and also for each of the four groups into which these industries are divided. The 1948-49 index numbers are based on the sample survey of factory production carried out in that year and to which reference has been made earlier in this Section.

The groups specified in this table are defined briefly as follows:

Group I comprises those industries engaged in processing pastoral products for the market, i.e., meat freezing and preserving; ham and bacon curing; butter, cheese, and other milk products manufacture; sausage-casing manufacture; felmongering and woolscouring; and boiling down and manure manufacture.

Group II includes public utility services, gasworks and electricity generation and supply.

Group III consists of extractive services, i.e., fish curing; sawmilling; lime crushing and burning and cement manufacture; brick, tile, and pottery making; pumice insulation manufacture; phosphonium-flax and linen flax milling.

Group IV comprises all industries for which statistics are available and which are not included in the other groups.

This grouping and the classification of some of the industries themselves is no longer used, and no index numbers are available subsequent to the 1950-51 year in this particular series.

INDEX NUMBERS OF VOLUME OF FACTORY PRODUCTION

Base: 1938-39 (=100)

Production Year	Group I		Group II		Group III		Group IV		All Groups	
	Total	Per Person Engaged	Total	Per Person Engaged	Total	Per Person Engaged	Total	Per Person Engaged	Total	Per Person Engaged
1929-30	75	81	73	97	95	98	70	91	74	92
1930-31	78	87	76	95	77	91	64	88	69	90
1931-32	82	98	74	93	49	87	55	85	60	90
1932-33	92	106	74	95	46	83	57	88	63	94
1933-34	93	94	74	92	54	87	59	89	65	92
1934-35	96	101	77	94	64	87	69	93	74	95
1935-36	98	99	82	97	79	92	76	93	81	96
1936-37	103	102	87	97	88	89	91	98	92	98
1937-38	101	100	93	99	94	91	96	97	97	97
1938-39	100	100	100	100	100	100	100	100	100	100
1939-40	110	107	no	106	103	97	111	104	110	103
1940-41	120	106	119	115	104	99	114	102	114	103
1941-42	122	102	124	125	103	96	116	100	116	102
1942-43	124	104	130	137	111	103	120	106	120	107
1943-44	118	99	138	145	118	103	126	109	125	108
1944-45	127	103	143	145	114	102	130	107	129	108
1945-46	124	98	147	139	112	101	134	105	131	105
1946-47	128	99	154	141	113	104	146	107	140	106
1947-48	128	96	158	147	131	110	159	112	151	110
1948-49	131	99	167	151	138	111	163	113	155	112
1949-50	136	103	174	155	143	113	174	118	164	117
1950-51	131	98	176	149	149	117	185	122	172	118

Volume of Factory Production: New Series.—Reclassification of the statistics of industrial production, in accordance with the New Zealand Standard Industrial Classification, was undertaken commencing with 1951-52, but index numbers have been prepared on the new basis for the years 1949-50 to 1951-52.

The table which follows sets out by industry groups, index numbers of value of output and added value for these three years, and volume of output for the latest year. It is not possible to arrive at volume of production index numbers for all the groups, for technical reasons, and consequently some have been omitted, but the total index number for the year is calculated in such a way as to include the groups which cannot be assessed separately.

INDEX NUMBERS OF VALUE AND VOLUME OF FACTORY PRODUCTION

Base: 1949-50 (= 1000)

Industry Group	Value of Output			Value Added in Manufacture			Volume of Production		
	1949-50	1950-51	1951-52	1949-50	1950-51	1951-52	1949-50	1950-51	1951-52
Food	1000	1167	1278	1000	858	1351	1000	1000	1028
Beverages	1000	1141	1228	1000	1170	1230	1000	1000	1106
Tobacco manufactures	1000	1040	1161	1000	997	1187	1000	1000	1114
Textiles	1000	1606	1210	1000	1202	1231	1000	1000	1041
Footwear, other wearing apparel, and made-up textile goods	1000	1204	1391	1000	1196	1329	1000	1000	1125
Wood and cork products (except furniture)	1000	1136	1397	1000	1168	1556	1000	1000	1184
Furniture and fittings	1000	1141	1288	1000	1131	1308	1000	1000	1028
Paper and paper products	1000	1296	1702	1000	1280	1486	1000	1000	1284
Printing, publishing, etc.	1000	1178	1378	1000	1184	1324	1000	1000	1061
Leather and leather products (except footwear and apparel)	1000	1233	1360	1000	1218	1320	1000	1000	1027
Rubber products	1000	1683	2732	1000	1633	1975	1000	1000	1803
Chemicals and chemical products	1000	1126	1480	1000	1175	1344	1000	1000	1169
Petroleum and coal products	1000	1085	1324	1000	935	1057	1000	1000	1028
Non-metallic mineral products n.e.i.	1000	1118	1353	1000	1094	1301	1000	1000	1048
Basic metal manufactures	1000	1189	1973	1000	1133	1601	1000	1000	1122
Metal products (except machinery and transport equipment)	1000	1161	1475	1000	1190	1489	1000	1000	1028
Machinery (except electrical)	1000	1278	1678	1000	1201	1420	1000	1000	1028
Electrical machinery and appliances	1000	1075	1304	1000	1102	1225	1000	1000	1122
Transport equipment	1000	1165	1398	1000	1150	1395	1000	1000	1028
Miscellaneous products	1000	1259	1442	1000	1255	1375	1000	1000	1028
Totals	1000	1198	1358	1000	1107	1372	1000	1046	1119

* Index not available for the groups, but allowed for in compiling total index.

OVERTIME.—Details of overtime worked in factories by wage-earning employees are summarized in the tables given, which show, by industry groups, the hours worked during the latest three years. The averages given are calculated on the basis of the total number of wage-earners engaged irrespective of the number who actually worked overtime.

Industry Group	Total Overtime Hours Worked by Wage-earners (Both Male and Female)		
	1949-50	1950-51	1951-52
Food	4,238,139	4,290,616	4,499,909
Beverages	468,804	450,795	454,878
Tobacco manufactures	169,336	186,390	194,608
Textiles	628,368	758,320	704,968
Footwear, other wearing apparel, and made-up textile goods	800,072	888,148	797,343
Wood and cork products (except furniture)	1,112,310	1,204,045	1,511,240
Furniture and fittings	289,556	355,745	336,641
Paper and paper products	427,438	452,473	409,980
Printing, publishing, etc.	551,587	608,174	565,225
Leather and leather products (except footwear and apparel)	181,532	204,527	175,604
Rubber products	232,114	322,666	316,384
Chemicals and chemical products	714,676	832,180	854,496
Petroleum and coal products	28,930	34,296	22,603
Non-metallic mineral products n.e.i.	1,004,009	1,024,595	1,192,239
Basic metal manufactures	55,513	92,454	100,228
Metal products (except machinery and transport equipment)	820,236	1,105,571	978,766
Machinery (except electrical)	902,363	1,058,525	1,174,882
Electrical machinery and appliances	399,952	398,568	345,102
Transport equipment	1,323,328	1,564,168	1,682,219
Miscellaneous products	154,261	172,682	195,238
Totals	14,502,494	16,005,138	16,512,553

The next table shows, by industry groups, the hours of overtime worked during 1951-52 by males and females separately.

Industry Group	Total Overtime Hours Worked by Wage-earners		Average Overtime Hours Worked by Wage-earners	
	Males	Females	Males	Females
Food	4,263,916	235,993	230	80
Beverages	454,793	85	256	6
Tobacco manufactures	111,108	83,500	282	101
Textiles	579,102	125,866	157	38
Footwear, other wearing apparel, and made-up textile goods	377,585	419,578	71	23
Wood and cork products (except furniture)	1,500,364	10,876	157	149
Furniture and fittings	330,677	5,964	82	18
Paper and paper products	355,453	54,527	236	53
Printing, publishing, etc.	487,068	78,157	90	62
Leather and leather products (except footwear and apparel)	162,901	12,703	149	34
Rubber products	313,727	2,657	174	8
Chemicals and chemical products	809,070	45,426	279	54
Petroleum and coal products	22,603	127	127	1
Non-metallic mineral products n.e.i.	1,156,630	35,609	244	176
Basic metal manufactures	99,889	339	156	42
Metal products (except machinery and transport equipment)	932,591	46,175	202	80
Machinery (except electrical)	1,170,329	4,553	180	89
Electrical machinery and appliances	307,805	37,297	110	54
Transport equipment	1,673,326	8,893	126	105
Miscellaneous products	155,838	39,400	101	47
Totals	15,264,775	1,247,778	169	39

SUMMARY OF OPERATIONS.—The following table contains an analysis of production costs in 1951-52, together with the value of products for each industry group and for all industries. In addition, by virtue of the complete details collected annually of the cost structure of goods produced in manufacturing industries, it is possible to give information on the surplus available to manufacturers prior to payment of dividends, taxation, and other appropriations. The only exception occurs in the case of co-operative dairy companies, which do not purchase milk and cream in the way that other manufacturers purchase raw materials. They collect the milk and cream from their shareholders, process it, and pay out to these shareholders the whole of the profits of the sales of the products, less amounts paid to reserves. Manufacturing surplus shown by these companies is therefore confined to the amount of these transfers to reserves and any undistributed profits.

In quite a number of cases, articles produced are transferred at cost to separate selling departments and warehouses, or to retail stores run by the same company or establishment. Where this is apparent, the company concerned is asked to substitute a commercial value for its transaction. The same procedure holds where a company controls more than one factory, and transfers the products of one to the other for further processing. It must be recognized that estimated values have to be accepted in many transactions of this type.

Industry Group	Production Costs			Value of Products	Manufacturing Surplus
	Salaries and Wages	Cost of All Materials Used	Other Expenses of Operation		
	£(000)				
Food	15,352	145,719	8,581	169,652	177,088
Beverages	1,258	3,716	962	5,935	6,805
Tobacco manufactures	530	3,928	338	4,796	5,595
Textiles	3,688	14,578	1,897	20,163	21,255
Footwear, other wearing apparel, and made-up textile goods	10,202	22,525	2,102	34,829	37,282
Wood and cork products (except furniture)	6,619	13,254	2,996	22,869	26,229
Furniture and fittings	2,563	3,934	493	6,990	7,785
Paper and paper products	1,429	5,808	876	8,114	9,528
Printing, publishing, etc.	4,495	4,799	1,713	11,007	13,300
Leather and leather products (except footwear and apparel)	907	3,191	290	4,388	4,698
Rubber products	1,497	4,970	1,079	7,546	8,376
Chemicals and chemical products	2,544	14,941	1,669	19,155	21,398
Petroleum and coal products	143	974	97	1,213	1,311
Non-metallic mineral products n.e.i.	3,250	4,245	2,530	10,024	11,478
Basic metal manufactures	486	1,874	276	2,636	2,886
Metal products (except machinery and transport equipment)	3,493	7,060	1,112	11,666	13,447
Machinery (except electrical)	4,469	10,053	1,287	15,809	17,599
Electrical machinery and appliances	2,036	4,346	707	7,089	7,599
Transport equipment	8,743	18,597	2,562	29,902	32,948
Miscellaneous products	1,334	2,171	461	3,966	4,412
Totals	75,039	290,683	32,028	397,749	431,038

DETAILS OF CERTAIN PRINCIPAL INDUSTRIES.—The principal statistics regarding leading factory industries for the last three years available are set out in the following pages. Fuller details are given in the annual Statistical Report on Factory Production.

—	1949-50			1950-51			1951-52		
	<i>Meat Freezing and Preserving</i>								
Number of establishments		51	48	48					
Persons engaged	No.	11,623	11,771	12,745					
Production costs—									
Salaries, wages	£	6,402,553	7,498,346	8,796,440					
Materials	£	43,438,918	61,918,558	53,333,954					
Other expenses	£	2,484,957	2,918,283	3,428,539					
Totals	£	52,326,428	72,335,187	65,558,933					
Value of output	£	55,264,034	68,412,479	70,148,239					
Value added in manufacture	£	11,825,116	6,493,921	16,814,285					
Overtime worked by wage-earners	Hrs.	2,524,486	2,591,380	2,869,606					
Principal products—									
Meat—									
Lamb carcasses	No.	12,450,404	11,272,907	11,960,714					
	Cwt.	3,897,532	3,565,202	3,725,969					
Mutton carcasses	No.	2,831,203	2,268,230	3,448,162					
	Cwt.	1,431,301	1,124,010	1,716,988					
Boned mutton	Cwt.	116,062	85,401	129,144					
Mutton and lamb pieces	Cwt.	31,773	37,010	40,967					
Beef quarters, shipped bone in	Cwt.	1,037,896	695,054	979,697					
Beef quarters, without bone	Cwt.		13,046	224,000					
Boneless beef	Cwt.	518,112	572,393	630,407					
Bobby veal	Cwt.	191,466	189,472	194,411					
Other veal	Cwt.	30,809	33,113	23,048					
Pork	Cwt.	434,924	434,791	410,935					
Edible offals	Cwt.	379,055	355,558	404,608					
Rabbits	No.	*	2,616,125	1,536,222					
By-products—									
Rumens	£	2,196,681	3,956,753	3,457,623					
Woolly sheepskins	No.	255,623	189,717	169,374					
Pelts	No.	16,141,420	14,902,344	17,036,236					
Rabbit skins	No.	*	1,631,645						
Cow hides	No.	295,713	297,921	329,801					
Ox and bull hides	No.	133,793	103,785	140,908					
Bobby calf hides	No.	1,195,256	1,236,512	1,276,393					
Other calf hides	No.	18,456	20,885	15,844					
Wool	lb.	47,856,460	46,318,807	52,870,939					
Boiling-down products—									
Tallow	Cwt.	695,975	673,942	830,995					
Neatsfoot oil	Gallons	88,379	86,804	94,781					
Manures	Cwt.	649,436	621,970	648,010					
Livermeal	Cwt.	22,387	21,211	22,679					
Mealmeal	Cwt.	266,447	231,710	251,945					
Canned and other preserved meats, pastes, extracts, and miscellaneous cannings	Cwt.	188,220	187,467	277,393					
<i>Ham and Bacon Curing</i>									
Number of establishments		42	42	43					
Persons engaged	No.	771	755	770					

* Not available.

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

† Details withheld to avoid disclosing figures for individual companies.

—	1949-50			1950-51			1951-52		
	Production costs—								
Salaries, wages	£	374,236	404,559	457,035					
Materials	£	3,181,664	3,345,751	3,491,464					
Other expenses	£	200,966	186,703	208,021					
Totals	£	3,756,866	3,937,013	4,156,520					
Value of output	£	3,857,225	4,136,261	4,386,149					
Value added in manufacture	£	675,561	790,510	894,685					
Overtime worked by wage-earners	Hrs.	71,036	81,703	94,668					
Pigs dealt with—									
Carcasses	No.	408,517	400,158	384,706					
Cost	£	2,785,608	2,918,887	2,975,968					
Principal products—									
Ham and bacon	Cwt.	300,669	288,538	271,052					
Frozen pork	Cwt.	86,298	81,753	67,043					
Lard	Cwt.	15,396	13,722	12,932					
Small goods	Cwt.	113,600	119,270	119,492					
Other fats	Cwt.	8,028	6,026	6,813					
<i>Butter, Cheese, and Other Milk Products</i>									
Number of establishments		379	376	367					
Persons engaged	No.	4,403	4,485	4,518					
Production costs—									
Salaries, wages	£	2,204,401	2,545,008	2,794,347					
Materials	£	54,079,344	61,193,626	71,231,401					
Other expenses	£	2,180,441	2,763,810	2,967,711					
Totals	£	58,464,186	66,502,444	76,993,459					
Value of output	£	58,681,778	66,848,198	77,544,035					
Value added in manufacture	£	4,662,334	5,658,572	6,312,634					
Overtime worked by wage-earners	Hrs.	685,283	731,561	570,271					
Number of suppliers		53,612	53,492	52,094					
Butterfat used—									
For creamery butter	lb.(000)	304,831	328,407	346,873					
For cheesemaking	lb.(000)	93,933	96,694	84,699					
For whey butter (making—)									
Recoveries from own whey	lb.(000)	3,264	3,345	2,930					
Whey fat purchased	lb.(000)	2,035	2,204	2,069					
Second grade creamery butterfat	lb.(000)	194	197	143					
Total whey butter	lb.(000)	5,493	5,746	5,142					
For condensed, dried milk, etc.	lb.(000)	7,079	6,658	7,670					
Principal products—									
Creamery butter	Tons	165,863	178,728	188,768					
Whey butter	Tons	2,983	3,133	2,791					
Cheese	Tons	105,376	108,525	95,479					
Condensed and powdered whole milk	Tons	21,544	20,711	22,867					
Skim milk powder	Tons	20,206	26,455	31,775					
Casein	Tons	5,257	6,616	9,718					
Buttermilk powder	Tons	3,942	7,020	6,799					
<i>Ice-cream</i>									
Number of establishments		57	59	50					
Persons engaged	No.	416	418	385					
Production costs—									
Salaries, wages	£	172,804	180,702	178,443					
Materials	£	447,542	523,262	528,150					
Other expenses	£	175,787	190,578	184,714					
Totals	£	796,133	894,542	891,307					
Value of output	£	974,379	1,076,917	1,081,724					
Value added in manufacture	£	526,837	553,655	553,574					
Overtime worked by wage-earners	Hrs.	26,153	25,702	20,966					
Main materials used—									
Milk	Gallons	645,910	640,933	510,578					
Cream	Gallons	97,547	69,111	41,801					
Ice-cream mixture	Cwt.	37,882	49,661	34,125					
Butter	lb.	331,356	584,625	866,645					
Skim milk powder	lb.	736,553	853,938	947,639					
Sugar	Cwt.	16,312	19,022	18,520					
Products—									
Bulk ice-cream	Gallons			1,877,443					
Ice-cream, cartonned, wrapped, chocolate-coated, etc.	Gallons	3,063,107	3,248,555						
<i>Grain Milling</i> ^a									
Number of establishments				47					
Persons engaged	No.			812					
Production costs—									
Salaries, wages	£			427,819					
Materials	£			2,816,932					
Other expenses	£			273,393					
Total	£			3,518,144					

* Not available.

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

† Details withheld to avoid disclosing figures for individual companies.

		1949-50	1950-51	1951-52
Value of output	£			3,765,635
Value added in manufacture	£			948,703
Overtime worked by wage-earners	Hrs.			92,179
Main materials used—				
Wheat	Bushels			7,255,227
Oats	Bushels			607,837
Principal products—				
Flour	Short tons	164,769	164,153	159,703
Wholemeal, wheatmeal	Short tons	8,920	8,574	8,779
Bran and pollard	Short tons	44,085	44,896	45,938
Oatmeal, rolled oats, etc., for human consumption	Short tons	8,114	7,545	6,774
Breakfast foods in flake or biscuit form	Short tons	†	†	†

* Not available.

† No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

‡ Details withheld to avoid disclosing figures for individual companies.

		1949-50	1950-51	1951-52
<i>Biscuits*</i>				
Number of establishments				13
Persons engaged	No.			882
Production costs—				
Salaries, wages	£			397,850
Materials	£			1,163,428
Other expenses	£			239,017
Total	£			1,800,295
Value of output	£			2,018,273
Value added in manufacture	£			854,845
Overtime worked by wage-earners	Hrs.			127,256
Main materials used—				
Flour	Short tons			10,202
Sugar	Tons			2,830
Chocolate	Cwt.			10,699
Margarine, lard, confectionery fat	Cwt.			42,970
Biscuits manufactured	Tons	14,323	14,473	14,279

		1949-50	1950-51	1951-52
<i>Cocoa, Chocolate, and Sugar Confectionery*</i>				
Number of establishments				63
Persons engaged	No.			1,807
Production costs—				
Salaries, wages	£			753,006
Materials	£			2,810,691
Other expenses	£			354,470
Total	£			3,918,167
Value of output	£			4,127,826
Value added in manufacture	£			1,317,135
Overtime worked by wage-earners	Hrs.			144,416
Main materials used—				
Sugar	Tons			9,498
Cocoa beans	Cwt.			42,281
Cocoa butter	Cwt.			13,301
Glucose	Cwt.			59,947
Confectionery manufactured—				
Chocolate and chocolate-coated	Tons	8,992	9,578	8,233
Sugar	Tons	7,480	7,693	8,675

		1949-50	1950-51	1951-52
<i>Fruit and Vegetable Preserving</i>				
Number of establishments		36	38	40
Persons engaged	No.	974	1,093	1,272
Production costs—				
Salaries, wages	£	347,287	413,842	553,589
Materials	£	1,282,413	1,457,663	2,082,327
Other expenses	£	184,445	208,194	264,428
Total	£	1,814,145	2,079,699	2,900,344
Value of output	£	1,957,713	2,335,357	3,335,531
Value added in manufacture	£	675,300	877,694	1,253,204
Overtime worked by wage-earners	Hrs.	177,685	230,109	308,397
Main materials used—				
Fruit	Tons	†	7,227	8,346
Vegetables and tomatoes	Tons	†	11,385	16,334
Sugar	Tons	†	3,640	3,358

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

† Not available.

		1949-50	1950-51	1951-52
<i>Principal products—</i>				
Canned fruit	Cwt.	36,810	56,004	52,528
Canned beans in sauce	Cwt.	1	35,603	42,411
Canned peas	Cwt.	120,467	103,613	116,073
Other canned vegetables (not tomatoes)	Cwt.		6,787	32,809
Tomato soup	Gallons	*	464,754	455,147

* Not available.

† In addition, 78,907 gallons were recorded by establishments classified in other industries.

		1949-50	1950-51	1951-52
<i>Pickles and Sauces</i>				
Pickles and sauces	Gallons	421,875	441,746	406,968
Jams, jellies, and conserves	Cwt.	76,215	71,139	70,768
Canned spaghetti in sauce	Cwt.	47,194	43,703	42,788
<i>Breweries</i>				
Number of establishments		37	35	35
Persons engaged	No.	1,426	1,318	1,370
Production costs—				
Salaries, wages	£	728,123	703,845	791,369
Materials	£	2,152,838	2,249,690	2,556,759
Other expenses	£	482,204	583,786	675,589
Total	£	3,363,165	3,537,321	4,023,717
Value of output	£	3,973,720	4,226,940	4,666,360
Value added in manufacture	£	1,820,882	1,977,250	2,109,601
Overtime worked by wage-earners	Hrs.	397,002	342,234	344,669
Main materials used—				
Malt	Bushels	*	1,153,115	1,175,119
Hops	Cwt.	7,027	6,655	6,646
Sugar	Cwt.	38,446	50,535	52,075
Beer produced for sale	Gallons	33,450,667	35,395,075	37,011,621
Stout produced for sale	Gallons	790,752	661,735	525,108

		1949-50	1950-51	1951-52
<i>Aerated Waters and Cordials</i>				
Number of establishments		93	87	89
Persons engaged	No.	541	543	549
Production costs—				
Salaries, wages	£	225,996	250,143	265,845
Materials	£	384,912	478,367	514,350
Other expenses	£	126,308	150,061	154,972
Total	£	737,116	878,571	935,167
Value of output	£	868,645	1,097,672	1,103,060
Value added in manufacture	£	483,733	619,305	588,710
Overtime worked by wage-earners	Hrs.	32,440	29,472	28,544
Main materials used—				
Sugar	Tons	2,589	2,965	3,020
Essential oils and essences	lb.	69,466	82,969	72,478
Fruit extracts and juices	Gallons	56,351	85,176	69,792
Aerated waters made	Gallons	4,132,157	4,504,529	4,612,024
Cordials made	Gallons	289,452	345,502	366,968 [†]

* Not available.

† In addition, 78,907 gallons were recorded by establishments classified in other industries.

		1949-50	1950-51	1951-52
<i>Tobacco, Cigars, and Cigarettes</i>				
Number of establishments		9	8	8
Persons engaged	No.	1,271	1,254	1,348
Production costs—				
Salaries, wages	£	424,083	463,898	529,800
Materials	£	3,412,991	3,609,364	3,928,289
Other expenses	£	261,697	285,554	338,328
Total	£	4,098,771	4,358,816	4,796,417
Value of output	£	4,817,724	5,009,989	5,595,283
Value added in manufacture	£	1,404,733	1,400,625	1,666,994
Overtime worked by wage-earners	Hrs.	169,336	186,390	194,608
Tobacco leaf used in manufacture	lb.	9,455,050	9,680,611	10,256,550
Cigarettes made	Million		1,722	1,886
Tobacco made	lb.	4,963,165	5,158,174	5,303,945

* Not available.

		1949-50	1950-51	1951-52
<i>Woolen Milling*</i>				
Number of establishments				19
Persons engaged	No.			2,290
Production costs—				
Salaries, wages	£			1,168,738
Materials	£			2,649,280
Other expenses	£			596,493
Total	£			4,414,511
Value of output	£			4,657,842
Value added in manufacture	£			2,008,562
Overtime worked by wage-earners	Hrs.			224,667
Main materials used—				
Greasy wool	lb.	9,638,510	9,374,474	8,403,166
Scoured wool	lb.	193,495	527,048	237,746
Tops, noils	lb.	552,397	570,478	505,445
Woolen and worsted yarn	lb.	99,026	29,403	106,687
Rayon and cotton yarn	lb.	7,580	45,140	55,816
Principal products—				
Woolen cloth	Yd. 54 in.	1,633,866	1,619,293	1,469,039
Worsted cloth	Yd. 54 in.	589,526	637,494	568,638
Flannel	Yd. 54 in.	497,651	320,192	382,155
Blankets	No.	132,358	139,444	144,195
Rugs	No.	17,796	35,021	34,628
Yarn produced for sale or transfer—				

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

		1949-50	1950-51	1951-52
Fingering	lb.	297,265	262,849	508,063
Machine knitting	lb.			1,597,605
<i>Hosiery and Other Knitting Mills*</i>				
Number of establishments				91
Persons engaged	No.			3,501
Production costs—				
Salaries, wages	£			1,510,800
Materials	£			3,544,353
Other expenses	£			658,475
Totals	£			5,713,628
Value of output	£			6,090,307
Value added in manufacture	£			2,545,954
Overtime worked by wage-earners	Hrs.			159,087

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

		1949-50	1950-51	1951-52
<i>Clothing</i>				
Number of establishments		741	837	871
Persons engaged	No.	17,414	18,832	19,360
Production costs—				
Salaries, wages	£	5,247,494	6,291,190	7,142,209
Materials	£	11,497,590	13,962,190	16,516,839
Other expenses	£	1,176,444	1,398,267	1,453,085
Totals	£	17,921,528	21,651,647	25,112,133
Value of output	£	19,087,913	23,232,732	26,702,699
Value added in manufacture	£	7,590,323	9,270,542	10,185,860
Overtime worked by wage-earners	Hrs.	486,450	539,517	455,216

		1949-50	1950-51	1951-52
<i>Footwear</i>				
Number of establishments		121	133	142
Persons engaged	No.	4,958	5,074	5,152
Production costs—				
Salaries, wages	£	1,912,510	2,070,944	2,407,811
Materials	£	2,666,470	3,413,033	3,870,021
Other expenses	£	437,964	499,547	499,936
Totals	£	5,016,944	5,983,524	6,777,768
Value of output	£	5,257,982	6,374,762	7,290,661
Value added in manufacture	£	2,591,512	2,961,729	3,420,640
Overtime worked by wage-earners	Hrs.	270,638	296,042	299,939
Main materials used—				
Upper leather	Sq. ft.	9,850,543	10,301,096	10,703,666
Sole leather	lb.	5,975,046	5,955,770	5,489,291
Felt	Sq. yd.	304,034	306,596	253,622
Principal products—				
Men's and boys' boots and shoes	Pairs	979,184	1,004,935	1,113,824
Women's and girls' shoes	Pairs	1,642,765	1,678,663	1,795,394
Sandals (all kinds)	Pairs	419,361	578,222	705,064
Slippers, leather and felt, etc.	Pairs	1,940,374	1,894,436	1,569,932
<i>Sawmills</i>				
Number of establishments		493	493	561
Persons engaged	No.	4,566	4,640	5,616
Production costs—				
Salaries, wages	£	2,271,982	2,552,272	3,286,362
Materials	£	4,404,861	5,388,359	5,496,117
Other expenses	£	955,752	1,323,962	1,968,584
Totals	£	7,632,595	9,264,593	10,751,063
Value of output	£	8,677,261	10,532,646	12,443,597
Value added in manufacture	£	4,272,400	5,144,287	6,947,480
Overtime worked by wage-earners	Hrs.	"	"	798,344
Rough sawn timber produced ¹	Thousand ft. b.m.	472,681	521,599	575,222

* Not available.

¹ In the two years 1949-50 and 1950-51 details of the operations of small operators were not collected. Estimated cut by these sawmills was: 1949-50, 5,700,000 ft. b.m.; 1950-51, 6,000,000 ft. b.m.

		1949-50	1950-51	1951-52
<i>Planing Mills</i>				
Number of establishments		129	138	157
Persons engaged	No.	1,849	1,906	2,250
Production costs—				
Salaries, wages	£	815,501	946,578	1,223,908
Materials	£	3,073,791	3,015,749	3,887,837
Other expenses	£	273,730	363,491	421,914
Totals	£	4,163,022	4,325,818	5,533,659
Value of output	£	4,667,621	4,749,074	6,262,275
Value added in manufacture	£	1,593,830	1,733,325	2,374,438
Overtime worked by wage-earners	Hrs.	"	217,804	266,835
Rough sawn timber used in manufacture	Thousand ft. b.m.	"	"	127,712
Dressed timber produced—				
Floorboards	Thousand ft. b.m.	"	"	31,457
Weatherboards	Thousand ft. b.m.	"	"	29,196
Other	Thousand ft. b.m.	"	"	49,263
Joinery work done	£	"	"	1,242,781

* Not available.

		1949-50	1950-51	1951-52
<i>Joinery</i>				
Number of establishments		205	212	285
Persons engaged	No.	1,919	1,973	2,476
Production costs—				
Salaries, wages	£	794,659	953,884	1,308,283
Materials	£	1,599,556	1,660,976	2,130,220
Other expenses	£	242,259	272,115	277,031
Totals	£	2,636,474	2,886,975	3,705,534
Value of output	£	2,996,833	3,268,828	4,265,568
Value added in manufacture	£	1,397,277	1,607,852	2,145,348
OH Overtime worked by wage-earners	Hrs.	131,494	162,308	234,435
Timber used in manufacture	Thousand ft. b.m.	"	"	38,681
Dressed timber produced—				
Floorboards	Thousand ft. b.m.	"	"	856
Weatherboards	Thousand ft. b.m.	"	"	749
Other	Thousand ft. b.m.	"	"	1,045
Joinery work done	£	"	"	4,058,017
<i>Furniture</i>				
Number of establishments		466	493	547
Persons engaged	No.	4,185	4,402	4,513
Production costs—				
Salaries, wages	£	1,633,627	1,918,335	2,212,219
Materials	£	2,024,977	2,321,668	2,551,501
Other expenses	£	370,879	413,188	401,246
Totals	£	4,029,483	4,653,191	5,164,966
Value of output	£	4,445,907	5,044,798	5,681,838
Value added in manufacture	£	2,430,930	2,723,130	3,130,337
Overtime worked by wage-earners	Hrs.	228,536	299,053	297,115

* Not available.

		1949-50	1950-51	1951-52
<i>Pulp, Paper, and Paperboard</i>				
Number of establishments		3	3	3
Persons engaged	No.	642	656	660
Production costs—				
Salaries, wages	£	354,673	404,020	448,883
Materials	£	820,520	981,227	1,420,225
Other expenses	£	326,714	434,622	481,752
Totals	£	1,501,907	1,819,869	2,350,860
Value of output	£	1,949,032	2,335,526	3,012,911
Value added in manufacture	£	1,128,512	1,354,299	1,592,686
Overtime worked by wage-earners	Hrs.	195,543	205,008	188,011
Principal products—				
Paper	Tons	7,111	7,541	"
Container board	Tons	14,676	17,320	16,584
Fibre building board	Sq. ft. (thousand)	43,283	47,766	54,430
<i>Cardboard Boxes, Cartons, and Paper Bags</i>				
Number of establishments		39	42	43
Persons engaged	No.	1,186	1,284	1,346
Production costs—				
Salaries, wages	£	415,296	530,829	589,890
Materials	£	1,359,886	1,955,905	2,985,930
Other expenses	£	163,89	229,927	251,709
Totals	£	1,939,073	2,716,661	3,827,529
Value of output	£	2,126,880	3,091,409	4,298,562
Value added in manufacture	£	766,994	1,135,504	1,312,632
Overtime worked by wage-earners	Hrs.	161,835	169,004	156,127
Paper used in manufacture	Tons	"	7,089	8,815
Cardboard used in manufacture	Tons	"	16,366	21,461
Cardboard boxes, cartons, made	£	"	2,345,123	2,937,366
Paper bags, made	£	"	621,397	1,103,158
<i>Printing and Publishing</i>				
Number of establishments		93	95	100
Persons engaged	No.	3,815	3,986	4,136
Production costs—				
Salaries, wages	£	1,802,545	2,045,551	2,329,126
Materials	£	1,478,390	1,783,290	2,380,542
Other expenses	£	836,319	1,024,556	1,027,898
Totals	£	4,117,254	4,853,401	5,737,566
Value of output	£	5,135,054	6,074,586	7,132,863
Value added in manufacture	£	3,656,664	4,291,292	4,752,321
Overtime worked by wage-earners	Hrs.	174,828	193,610	180,447
Newsprint used	Tons	"	27,701	29,518
Other paper used	Tons	"	2,712	2,731
<i>Job and General Printing</i>				
Number of establishments		237	249	262
Persons engaged	No.	3,858	4,031	3,988
Production costs—				
Salaries, wages	£	1,560,871	1,825,782	1,982,366
Materials	£	1,697,976	1,919,123	2,332,713

* Not available.

	1949-50	1950-51	1951-52
Other expenses	£ 514,863	667,882	645,755
Totals	£ 3,773,710	4,412,785	4,960,834
Value of output	£ 4,256,409	4,980,245	5,798,430
Value added in manufacture	£ 2,558,433	£ 8,061,124	3,465,717
Overtime worked by wage-earners	Hrs. 356,420	385,404	358,300
Newsprint used	Tons	* 1,090	1,193
Other paper used	Tons	* 10,434	10,095
Cardboard used	Tons	* 1,444	1,618

* Not available.

	1949-50	1950-51	1951-52
<i>Tanning</i>			
Number of establishments	19	18	16
Persons engaged	No. 851	841	819
Production costs—			
Salaries, wages	£ 402,998	461,148	502,794
Materials	£ 1,268,852	1,817,903	1,856,164
Other expenses	£ 153,544	183,286	203,636
Totals	£ 1,825,394	2,462,337	2,562,594
Value of output	£ 1,960,114	2,614,417	2,707,393
Value added in manufacture	£ 691,262	796,514	851,229
Overtime worked by wage-earners	Hrs. 132,344	142,544	132,587
Main materials used—			
Cattle hides	No. 359,674	401,790	402,486
Yearling and calf hides	No. 319,569	361,255	310,717
Pelts	No. 675,790	926,551	791,880
Sheep-skins	No. 124,587	98,895	38,488
Principal products—			
Leather—			
Hides—Bends	lb. * 3,062,590	5,219,246	
Shoulders	lb. * 1,500,348	1,782,400	
Bellies	lb. * 1,643,135	1,834,306	
Chrome and other sides	Sq. ft. * 8,559,209	8,663,139	
Yearling	Sq. ft. * 757,119	677,470	
Calf	Sq. ft. * 1,415,094	1,176,817	
Sheep—Basils	Sq. ft. * 351,212	394,331	
Roans	Sq. ft. * 2,843,075	2,611,414	
Chamois	Doz. * 7,268	7,726	
Woolly skins	Sq. ft. * 559,711	308,651	
<i>Rubberware</i>			
Number of establishments	21	25	26
Persons engaged	No. 1,421	1,897	2,068
Production costs—			
Salaries, wages	£ 682,239	999,364	1,263,982
Materials	£ 1,031,957	1,949,615	4,335,906
Other expenses	£ 588,352	930,511	946,513
Totals	£ 2,302,548	3,879,490	6,546,401
Value of output	£ 2,375,831	4,318,056	7,173,073
Value added in manufacture	£ 1,343,874	2,368,441	2,837,167
Overtime worked by wage-earners	Hrs. 213,137	297,120	288,153
Crude rubber used	lb.(000) 6,575	10,572	13,319
Principal products—			
Motor tires	No. 168,648	387,806	503,602
Motor tubes	No. 144,529	323,546	388,386
Camelback	lb. 1,512,572	2,316,783	2,500,541
Milking rubberware	£ 85,090	105,213	237,292
Bicycle tires and tubes			
Battery containers	£ 450,237	566,925	747,529
Rubber and canvas footwear			

* Not available.

	1949-50	1950-51	1951-52
<i>Chemical Fertilizers</i>			
Number of establishments	9	8	8
Persons engaged	No. 1,091	1,026	1,088
Production costs—			
Salaries, wages	£ 590,832	603,574	729,471
Materials	£ 3,827,128	3,993,832	5,972,386
Other expenses	£ 533,205	549,986	672,032
Totals	£ 4,951,165	5,147,392	7,373,889
Value of output	£ 5,352,237	5,736,569	8,021,915
Value added in manufacture	£ 1,525,109	1,742,737	2,049,529
Overtime worked by wage-earners	Hrs. 330,858	390,873	393,014
Main materials used—			
Rock phosphate	Tons 376,846	392,939	421,840
Serpentine rock	Tons 43,064	51,137	92,072
Sulphur	Tons 71,195	77,165	63,918
Carbonate of lime	Tons 8,962	4,313	28,985
Principal products—			
Serpentine superphosphate and mixtures	Tons 151,846	150,630	146,205
Basic and reverted superphosphate and mixtures	Tons 21,881	30,116	41,482
Other superphosphate and mixtures containing superphosphate	Tons 482,558	523,107	45,521

	1949-50	1950-51	1951-52
<i>Soap and Candle Manufacture</i>			
Super compound	Tons		518,991
Number of establishments		23	22
Persons engaged	No. 600	582	577
Production costs—			
Salaries, wages	£ 231,513	251,878	309,927
Materials	£ 887,678	1,038,053	1,103,039
Other expenses	£ 150,547	141,734	156,776
Totals	£ 1,269,738	1,431,665	1,569,742
Value of output	£ 1,474,139	1,639,164	1,729,685
Value added in manufacture	£ 586,461	601,111	626,646
Overtime worked by wage-earners	Hrs. 81,681	102,266	103,046
Main materials used—			
Tallow	Tons 10,645	10,828	10,127
Other oils	Tons 779	984	793
Caustic soda	Tons 1,648	1,736	1,760
Soda ash	Tons 2,342	2,407	2,489
Principal products—			
Soap—			
Toilet	Tons 2,403	2,658	2,711
Bar	Tons 7,758	7,442	6,763
Powder and flakes	Tons 7,885	8,680	9,025
Candles	Tons 216	395	400

	1949-50	1950-51	1951-52
<i>Paint and Varnish</i>			
Number of establishments	21	20	23
Persons engaged	No. 550	637	681
Production costs—			
Salaries, wages	£ 270,575	347,012	372,696
Materials	£ 1,957,828	2,251,767	3,039,058
Other expenses	£ 146,398	189,678	200,206
Totals	£ 2,374,801	2,788,457	3,611,960
Value of output	£ 2,663,867	3,250,299	3,959,958
Value added in manufacture	£ 706,039	998,532	920,960
Overtime worked by wage-earners	Hrs. 131,553	153,283	153,013
Main materials used—			
White lead	Cwt. 39,418	56,963	56,154
Other pigments	Cwt. 110,029	95,596	122,519
Linseed oil	Gallons 651,991	682,184	689,732
Solvents	Gallons 988,044	912,484	1,063,110
Gums and resins	Cwt. 13,887	18,812	25,259
Principal products—			
Oil paints	Gallons 1,048,497	1,195,051	1,179,386
Enamels	Gallons 511,581	602,272	704,221
Lacquers	Gallons 73,932	85,699	102,992
Varnishes (for sale)	Gallons 181,693	178,620	173,691

	1949-50	1950-51	1951-52
<i>Pharmaceuticals, Toilet Goods, and Cosmetics*</i>			
Number of establishments	59	48	47
Persons engaged	No. 801	767	745
Production costs—			
Salaries, wages	£ 265,396	285,713	305,497
Materials	£ 1,125,381	1,106,172	1,197,205
Other expenses	£ 131,467	127,909	121,322
Totals	£ 1,522,244	1,519,794	1,624,024
Value of output	£ 1,792,943	1,770,559	1,946,581
Value added in manufacture	£ 667,562	664,387	749,376
Overtime worked by wage-earners	Hrs. 28,285	18,194	16,037
Principal products—			
Pharmaceutical products	£	† 808,846	993,029
Toilet preparation and cosmetics—			
Dentifrices	£	† 180,535	173,032
Cosmetic creams and lotions	£	† 129,193	128,531
Hair dressings	£	† 171,226	217,732
Powder, face and talcum	£	† 117,134	131,500
Lipstick	£	† 42,175	52,842

* Products shown for this industry include the production of establishments classified in other industries.

† Not available.

	1949-50	1950-51	1951-52
<i>Structural Clay Products*</i>			
Number of establishments			47
Persons engaged	No.		968
Production costs—			
Salaries, wages	£		562,147
Materials	£		94,013
Other expenses	£		500,635
Total	£		1,156,795
Value of output	£		1,323,205

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

† Not available.

		1949-50	1950-51	1951-52
Value added in manufacture	£			1,229,192
Overtime worked by wage-earners	Hrs.			218,082
Clay used—				
Purchased	Tons			16,882
From own quarry	Tons			167,104
Principal products—				
Firebricks	No.	2,793,013	3,010,850	2,326,396
Building bricks	No.	34,323,818	38,110,606	37,170,209
Roofing tiles	No.	4,304,900	3,498,961	2,620,698
Salt-glazed pipes—				
Above 6 in.	No.	†	79,100	20,346
6 in. and below	No.	†	1,844,330	1,826,397

*Pottery, China, and Earthenware**

Number of establishments				8
Persons engaged	No.			540
Production costs—				
Salaries, wages	£			253,940
Materials	£			97,908
Other expenses	£			151,427
Totals	£			503,275
Value of output	£			575,872
Value added in manufacture	£			477,964
Overtime worked by wage-earners	Hrs.			97,871
Principal products—				
Insulators and refractory insulator elements	£	†	135,311	163,272
Crockery, artware, and novelties, stoneware	£	†	204,469	316,304
Other earthenware including sanitary-ware	£	†	72,030	96,296

Cement

Number of establishments				3
Persons engaged	No.			386
Production costs—				
Salaries, wages	£			243,998
Materials	£			509,161
Other expenses	£			629,826
Total	£			1,382,985
Value of output	£			1,584,318
Value added in manufacture	£			1,075,157
Overtime worked by wage-earners	Hrs.			165,346
Principal products—				
Limestone	Tons	†	†	178,586
Clay, manf., cement rock	Tons	†	†	203,460
Gypsum	Tons	†	†	7,857
Cement made	Tons	245,597	204,385	238,601

* No comparable figures, apart from those given, are available for the years 1949-50 and 1950-51 owing to a reclassification of the industry.

† Not available.

		1949-50	1950-51	1951-52
<i>Concrete Products</i>				
Number of establishments		188	223	247
Persons engaged	No.	1,373	1,527	1,644
Production costs—				
Salaries, wages	£	595,882	734,882	918,620
Materials	£	833,285	1,086,471	1,370,951
Other expenses	£	191,410	262,993	288,886
Totals	£	1,620,577	2,084,346	2,578,457
Value of output	£	1,857,610	2,337,239	3,007,409
Value added in manufacture	£	1,024,325	1,250,768	1,636,458
Overtime worked by wage-earners	Hrs.	144,496	162,000	188,910
Materials used—				
Portland cement	Tons	* *	* *	48,771
Sand, shingle	Yd.	* *	* *	156,610
Reinforcing	Tons	* *	* *	4,612
Pumice	Yd.	* *	* *	31,714
Principal products—				
Roofing tiles	No.	15,144,094	14,874,524	14,892,115
Fencing posts	No.	* *	* *	1,105,014
Housing blocks	No.	* *	* *	1,765,938
Chimneys	No.	* *	* *	15,153
Coppers, boilers	No.	* *	* *	14,842
Pipes	Tons	* *	* *	56,107
Tanks, troughs	No.	* *	* *	20,086
<i>Plywood and Veneer</i>				
Number of establishments		7	7	7
Persons engaged	No.	420	423	487
Production costs—				
Salaries, wages	£	193,896	235,005	272,993
Materials	£	255,836	308,057	360,291
Other expenses	£	111,470	181,270	150,369
Totals	£	561,202	724,332	783,653

* Not available.

		1949-50	1950-51	1951-52
Value of output	£	613,532	799,449	897,797
Value added in manufacture	£	357,696	491,392	537,506
Overtime worked by wage-earners	Hrs.	20,765	39,554	89,383
Species of logs used—				
Rimu	Ft. (H. Dahl)	8,823,141	9,493,162	8,486,222
Matai	Ft. (H. Dahl)	1,386,319	1,230,234	1,486,427
Kahikatea	Ft. (H. Dahl)	651,179	1,014,492	1,687,887
Radiata pine	Ft. (H. Dahl)	401,029	537,002	1,266,359
Other	Ft. (H. Dahl)	127,711	375,012	482,553
Plywood made (3/16 in. basis)	Sq. ft.	24,555,050	31,105,029	32,852,931

* Not available.

		1949-50	1950-51	1951-52
<i>Range Making*</i>				
Number of establishments			11	10
Persons engaged	No.		1,010	972
Production costs—				
Salaries, wages	£	478,242	484,485	524,874
Materials	£	425,274	430,591	527,446
Other expenses	£	108,664	114,147	148,393
Totals	£	1,012,180	1,029,223	1,200,713
Value of output	£	1,109,073	1,153,541	1,291,937
Value added in manufacture	£	683,799	722,950	764,491
Overtime worked by wage-earners	Hrs.	129,444	131,873	101,388
Iron and steel used	Tons	†	†	4,837
Principal products—				
Domestic electric ranges	No.	21,591	21,769	21,623
Domestic electric rangeettes	No.	11,068	10,738	11,100
Domestic coal ranges	No.	7,957	7,773	6,562

*Radio Assembly and Manufacture**

Number of establishments		22	25	25
Persons engaged	No.	994	960	1,008
Production costs—				
Salaries, wages	£	382,133	422,836	502,547
Materials	£	960,124	1,000,138	1,259,248
Other expenses	£	112,897	138,910	163,253
Totals	£	1,455,154	1,561,884	1,925,048
Value of output	£	1,544,060	1,689,991	2,056,219
Value added in manufacture	£	583,936	689,853	796,971
Overtime worked by wage-earners	Hrs.	108,878	96,948	85,189
Principal products—				
Radio receivers, table models—				
Broadcast	No.	23,126	20,765	27,138
Broadcast and short-wave	No.	11,880	12,574	14,907
Radiogram	No.	3,570	5,198	4,781
Radio receivers, console models—				
Broadcast	No.	306		246
Broadcast and short wave	No.	432	417	750
Radiogram	No.	1,496	2,065	2,981
Portable receivers	No.	10,073	6,448	8,825
Automobile receivers	No.	5,473	6,619	8,773

Motor Vehicle Assembly

Number of establishments		10	11	11
Persons engaged	No.	1,625	1,785	1,949
Production costs—				
Salaries, wages	£	851,086	1,048,024	1,282,937
Materials	£	6,976,675	8,778,626	10,645,476
Other expenses	£	303,676	357,834	418,432
Totals	£	8,131,437	10,184,484	12,346,845
Value of output	£	8,586,806	10,868,641	13,074,667
Value added in manufacture	£	1,610,131	2,090,015	2,429,191
Overtime worked by wage-earners	Hrs.	399,709	454,606	471,617
Vehicles assembled—				
Cars	No.	9,731	13,444	15,712
Buses	No.	86	116	43
Vans	No.	943	2,162	1,935
Trucks	No.	5,725	4,823	6,466

* Products shown for these industries include the production of establishments classified in other industries.

† Not available.

		1949-50	1950-51	1951-52
<i>Motor Body Building</i>				
Number of establishments		86	85	83
Persons engaged	No.	1,246	1,227	1,176
Production costs—				
Salaries, wages	£	529,610	578,451	606,141
Materials	£	543,269	610,086	658,930
Other expenses	£	141,938	147,584	148,516
Totals	£	1,214,817	1,336,121	1,413,587
Value of output	£	1,351,558	1,494,489	1,641,671

* Not available.

—	1949-50	1950-51	1951-52
Value added in manufacture	£ 808,289	884,403	982,741
Overtime worked by wage-earners	Hrs. 75,679	99,499	87,251
Main materials—			
Timber	Fl. b.m.	"	" 1,416,055
Plywood	Sq. ft.	"	" 310,289
Paint and oils	Gallons	"	" 26,536
Motor bodies built—			
Buses	No.	197	226 184
Vans	No.	1,063	1,063 724
Trucks	No.	1,955	1,516 1,679
Motor Repairs			
Number of establishments		1,482	1,439 1,501
Persons engaged	No.	10,060	10,171 11,017
Production costs—			
Salaries, wages	£ 4,109,133	4,545,467	5,416,110
Materials	£ 5,063,210	5,419,747	6,363,616
Other expenses	£ 1,271,673	1,365,165	1,496,234
Totals	£ 10,444,016	11,330,379	13,275,960
Value of output	£ 11,415,340	12,428,327	15,083,846
Value added in manufacture	£ 6,352,130	7,008,580	8,720,230
Overtime worked by wage-earners	Hrs. 502,197	572,560	675,523
Sheetmetal Working			
Number of establishments		161	157 159
Persons engaged	No.	2,874	2,954 2,934
Production costs—			
Salaries, wages	£ 1,245,302	1,437,598	1,602,021
Materials	£ 2,415,822	2,782,654	3,391,221
Other expenses	£ 381,799	468,862	489,818
Totals	£ 4,043,013	4,689,114	5,483,060
Value of output	£ 4,559,490	5,180,706	6,347,982
Value added in manufacture	£ 2,143,668	2,398,052	2,956,761
Overtime worked by wage-earners	Hrs. 412,160	503,761	445,816
Metal Products n.e.i.			
Number of establishments		114	129 142
Persons engaged	No.	2,009	2,292 2,494
Production costs—			
Salaries and wages	£ 933,626	1,200,326	1,455,692
Materials	£ 1,509,388	1,780,399	2,480,957
Other expenses	£ 394,924	481,393	514,341
Totals	£ 2,837,938	3,462,118	4,450,990
Value of output	£ 3,152,443	3,878,935	5,194,950
Value added in manufacture	£ 1,643,055	2,098,536	2,713,993
Overtime worked by wage-earners	Hrs. 306,752	470,779	421,664
* Not available.			
—	1949-50	1950-51	1951-52
Agricultural and Pastoral Machinery			
Number of establishments		83	93 96
Persons engaged	No.	1,319	1,377 1,440
Production costs—			
Salaries, wages	£ 574,713	658,423	758,212
Materials	£ 1,692,284	2,473,355	3,985,841
Other expenses	£ 158,794	179,042	189,205
Totals	£ 2,425,791	3,310,800	4,933,258
Value of output	£ 2,757,251	3,706,936	5,395,313
Value added in manufacture	£ 1,064,967	1,233,601	1,409,472
Overtime worked by wage-earners	Hrs. 124,220	151,535	147,402
Machinery n.e.i.			
Number of establishments		309	338 353
Persons engaged	No.	5,900	6,089 6,551
Production costs—			
Salaries, wages	£ 2,637,190	3,095,182	3,710,919
Materials	£ 3,484,356	4,554,530	6,066,907
Other expenses	£ 821,156	975,080	1,097,447
Totals	£ 6,942,702	8,624,792	10,875,273
Value of output	£ 7,733,004	9,700,095	12,203,911
Value added in manufacture	£ 4,248,648	5,145,565	6,137,004
Overtime worked by wage-earners	Hrs. 778,143	907,090	1,027,480

Chapter 25. SECTION 25—BUILDING, CONSTRUCTION, AND HOUSING

Table of Contents

INTRODUCTORY.— Within the short span of a century New Zealand has been transformed from a virgin wilderness into a country whose community enjoys the amenities of modern social and industrial life. In the pioneer stages of colonization the development of the resources of the country demanded an almost mushroom growth of building and construction activity in the formation of railways, roads, and harbours, in addition to provision for the housing needs of a rapidly growing population. More recently the utilization of available resources of water power has involved major schemes of construction of hydro-electric stations in various parts of New Zealand, and the reticulation of practically the whole of the inhabited portion of the country. The utilization of forest resources, land settlement, and the growth of factory industries have required extensive building and construction works, rural and urban, while the increasing housing needs of a growing population are reflected in a steady long-term increase in the building of dwellings. The increase in trade and industry, with the resultant growth of the towns, has been accompanied by extensive construction of factories, shops, offices, warehouses, etc.

With the passing of the early stages of social and industrial development, replacements of obsolete and obsolescent structures and general maintenance will occupy a larger place in building and construction activity than was the case formerly, although there have been new avenues of industry requiring further major building and construction operations. For example, the development of aviation in New Zealand required the formation of a chain of landing grounds and airports, a work which became more urgent with the outbreak of war. The increase in motor traffic has necessitated a reorientation of road policy, much new construction and extensive alterations to the surfaces of existing roads being required. The diversification of factory industries in recent years has involved extensive building operations—particularly in the engineering trades—while modernization of factory equipment and

of shop and office accommodation has been responsible for a further appreciable proportion of building activity. Developments in recent years in the production of pulp and paper from the exotic forests have contributed to further demands on this industrial sector.

An interesting feature of building and construction activity in New Zealand is the absence of a marked seasonal decline in the winter months, since winters are not sufficiently severe, except in a few districts, to interfere materially with the building of dwellings or other construction work.

The building and construction industry is particularly sensitive to cyclical fluctuations in business conditions, and it is not surprising to note that in the past marked changes in building activity have coincided with the ebb and flow of trade and industry. Governmental policy in regard to public-works construction in such times has been directed towards accelerating State activity in this direction in times of depression and in the slack seasons of the year with a view to alleviating unemployment. While considerable success has been achieved on various occasions, at other times the expansion of public works has been limited for financial reasons. Private building suffered severely during the depression, but later revived substantially to reach its pre-war peak in 1938-39. Thereafter a progressive decline in the importation of essential materials, notably steel and iron, took place, with consequential effects on normal large-scale construction. After 1941, however, the full effect of war began to have its effect, while Japan's entry into the war accentuated the diversion of men and building materials to aerodromes and other defence constructional work. This diversion was maintained as the necessity arose to provide accommodation for Allied Forces using New Zealand as a base for operations in the Pacific area. The cumulative effect of these circumstances may be gauged from the record low level of building permits for urban districts in 1942-43, the value of which, £2,661,947, may be compared with the 1938-39 figure of £12,126,458. Thereafter, with the completion of the major portion of defence programmes, a distinct revival of civil building took place, the improvement being progressively maintained despite the hampering effects of shortages of skilled labour and many essential building materials. By 1944-45 the annual value had exceeded the highest pre-war figure, although it would appear that much of the increase over earlier years was a reflection of higher costs. If the number of permits for new dwellings can be safely used as a guide, then by the 1946-47 year building activity both in volume and value had by far exceeded pre-war figures. Since then, building activity has continued at higher levels in each successive year.

The value of building permits in urban districts for 1951-52 totalled £46,279,391, this figure being surpassed in 1952-53 with a value of £47,179,870.

Trends in Average Costs of Some Representative Lines.—The following table is of interest in that it illustrates trends in the cost of some of the more representative lines of building activity over a period with general characteristics of rising costs and prices.

—	Cost in Year Stated			
	1939	1945	End of 1950	End of 1953
State rental house (979 square feet)	£1,061	£1,479	£2,172	£2,457
Accommodation on works—				
Single men	£30	£125	£165	£235
Married men	£135		£1,000	£1,200
Buildings (reinforced concrete): For similar size and type	£10,000	£15,700	£25,100	£27,810
Bridge: Concrete, per cubic yard	£12 2s.	£19 7s.	£31 7s.	£43
Fencing (labour only), per chain	10s. 6d.	£1	£1 17s. 6d.	£2 7s. 6d.

The movement in costs of some particular lines of general building materials is now given, the first figure in each instance relating to 1939 and the last figure to the end of 1953: timber (general lines), 29s. to 65s.—70s.; hardwood sleepers, 7s. to 26s.; structural steel, £11—£14 to £50-£65; and cement, £4 8s. 3d. to £13 12s. per ton.

Availability of Principal Building Materials.—The following table, taken from sources published on the occasion of the National Housing Conference in 1953, shows the availability of the principal building materials in the years quoted.

—	Unit	Production	Imports	Total
1938				
Sawn timber—				
Production (year beginning 1 April)	Million board feet	317		317
Imports (calendar year)	Million board feet		29.9	29.9
Exports (calendar year)	Million board feet			14.6
Apparent consumption (year beginning 1 April)	Million board feet			332
Cement	(000) Tons	216	1.3	217.3
Wallboard	(000) square feet	14,700	"	"
Asbestos cement sheet	(000) square feet	"	2,250	"
Roof tiles, concrete	No. (000)	4,500		4,500
Roof tiles, clay	No. (000)	2,700		2,700
Plywood	(000) square feet	3,000	8,000	11,000
Bricks	No. (000)	29,100		29,100
Window glass	(000) square feet		3,377	3,377
Sanitary earthenware	Pieces	"	"	"
Electric ranges	Value (£)	"	17,197	"
Copper tube	Units	6,959	9,411	16,370
Galvanized pipe	Cwt.	7,509	7,509	
Corrugated iron	Cwt.	288,289	288,289	
Plain galvanized iron	Cwt.	268,362	268,362	
Reinforcing steel	Cwt.	119,962	119,962	
Cast iron pipes and soil pipes	Ton	53,516	53,516	
Builders' hardware	Cwt.	13,572	13,572	
Baths	Value (£)	"	120,621	"
Screws	Units	"	3,035	"
	Value (£)		35,000	35,000

* Figures not available.

—	Unit	Production	Imports	Total
1946				
Sawn timber—				
Production (year beginning 1 April)	Million board feet	354		354
Imports (calendar year)	Million board feet		13.7	13.7
Exports (calendar year)	Million board feet			8.8
Apparent consumption (year beginning 1 April)	Million board feet			360
Cement	(000) Tons	219.5	6.7	226.2
Wallboard	(000) square feet	52,700	"	"
Asbestos cement sheet	(000) square feet	21,500	5,000	26,500
Roof tiles, concrete	No. (000)	8,000		8,000
Roof tiles, clay	No. (000)	3,000		3,000
Plywood	(000) square feet	22,800	3,000	25,800
Bricks	No. (000)	23,800		23,800
Window glass	(000) square feet		3,935	3,935
Sanitary earthenware	Pieces	14,000		14,000
Electric ranges	Value (£)	"	27,869	"
Copper tube	Units	20,483		20,483
Galvanized pipe	Cwt.	8,443	8,443	
Corrugated iron	Cwt.	267,062	267,062	
Plain galvanized iron	Cwt.	60,027	60,027	
	Cwt.	95,527	95,527	

* Figures not available.

	Unit	Production	Imports	Total
Reinforcing steel	Ton	20,822	20,822	20,822
Cast iron pipes and soil pipes	Cwt.	3,542	3,542	3,542
Builders' hardware	Value (£)	* 192,665	*	*
Baths	Units	* 28	*	*
Screws	Value (£)	29,930	29,930	29,930
1952				
Sawn timber—				
Production (year beginning 1 April)	Million board feet	573		573
Imports (calendar year)	Million board feet	39.3		39.3
Exports (calendar year)	Million board feet			16.6
Apparent consumption (year beginning 1 April)	Million board feet			596
Cement	(000) Tons	266.5	123.5	390
Wallboard	(000) square feet	102,500	21,536	124,036
Asbestos cement sheet	(000) square feet	33,300	5,790	39,090
Roof tiles, concrete	No. (000)	14,900		14,900
Roof tiles, clay	No. (000)	2,600		2,600
Plywood	(000) square feet	32,900	2,317	35,217
Bricks	No. (000)	38,100		38,100
Window glass	(000) square feet		12,724	12,724
Sanitary earthenware	Pieces	19,000	*	*
	Value (£)	* 113,955	*	*
Electric ranges	Units	24,193	6,977	31,170
Copper tube	Cwt.	51,419		51,419
Galvanized pipe	Cwt.	241,697		241,697
Corrugated iron	Cwt.	218,205		218,205
Plain galvanized iron	Cwt.	166,245		166,245
Reinforcing steel	Ton	76,064		76,064
Cast iron pipes and soil pipes	Cwt.			*
Builders' hardware	Value (£)	* 601,910	*	*
Baths	Units	8,500	23,899	32,399
Screws	Value (£)		121,854	121,854

* Figures not available.

Role of the State and Local Authorities.—The function of the State in the stimulation of building and construction enterprise is twofold. Public works, involving both new construction and the maintenance of existing works, are in themselves responsible for a large percentage of the total annual building and construction activity. Furthermore, the State encourages private building in various ways—for example, the State Advances Corporation (see Section 33B of this Year-Book for details) has done much to facilitate home building and land development. As will be seen under a subsequent heading, a comprehensive programme of house building by the State has been in operation since 1937.

In August 1953 the Government convened a National Housing Conference for the purpose of surveying the general housing situation in New Zealand and investigating ways and means of implementing the Government's housing policy of making houses available to the people at reasonable cost. The conference was attended by builders and others directly associated with the building industry and also by employers, workers, welfare organizations, local bodies, organizations interested in housing finance, and other sections of the public.

Every aspect of housing was discussed, and it is thought that when effect is given to the resolutions adopted by the conference a marked improvement in the housing position will be effected.

Shortly after the conference a new portfolio was created, that of Minister of Housing. The new Minister assumed responsibility for giving effect to the general housing policy of the Government, co-ordinating all Government activities relating to housing, and providing liaison with trade and other associations outside the Government to ensure that the best use is made of all available resources for the speedy and economical construction of houses.

New schemes recently introduced by the Government to assist home builders are:

1. Erection of houses for sale: In this scheme the house itself is erected complete, but fencing, laying of paths, etc., is carried out by the purchaser.
2. Erection of partially completed houses for sale: These houses are completed to the stage where they are closed in. The flooring, inside finishing work together with painting, fencing, laying of paths, etc., is to be carried out by the purchaser.
3. Practical training: Facilities for educational classes for the instruction of those who desire to build their own homes are being provided in many centres. Partially completed State houses will be finished by the classes under competent supervision, thus providing practical training in house building.

The Government has also sponsored a group building scheme aimed to make houses available for those whose cash contributions amount to approximately £400 to £600. Plans and specifications are checked by the State Advances Corporation, which also supervises the work. Builders erect groups of houses for sale, and are thus given the opportunity of employing their organizations in the most efficient way, supported by a Government undertaking to take over a certain proportion of any unsold houses. At the end of January 1954, 65 builders were participating in the scheme over 24 towns, 1,944 houses were programmed, and of these 129 had been sold.

Encouragement is also being given to the building of large blocks of residential flats, the Government itself having recently approved the building of large blocks of multi-storey flats in Wellington and Auckland, each to contain 80 two-level two-bedroom maisonette flats and 9 bed-sitting-room flats on the ground floor.

In the sphere of building finance, the Minister of Housing announced several policy changes in September 1953. For State Advances loans, the terms, in appropriate cases, would be extended to thirty-five or forty years with adjustments up or down at fixed periods. The Corporation would also provide for housing loans for a period of twenty years. Repayment would be at the rate fixed for a table mortgage for thirty or forty years and loans would be refinanced after twenty years.

To encourage employers to build houses for their employees, employers would be allowed to write off 30 per cent of the cost of such houses as depreciation in the first year.

Withdrawal could also be made at any time from national savings for the acquisition of homes.

A mortgage guarantee scheme was provided for in the State Advances Corporation Amendment Act 1953. The amendment enables the Corporation to guarantee financial institutions repayment by the borrower of the difference between the normal housing loan and 90 per cent of the valuation.

In addition to the activities briefly outlined above, the housing policy of the Government includes the provision of loans to local authorities at 3½ per cent per annum (increased from 3 per cent during 1952–53) to enable them to undertake general housing schemes, or in connection with the subsidized assistance granted by the Government under the 1950 scheme to local authorities which provide accommodation for pensioners or persons in comparable circumstances. The Corporation invests moneys from its General Reserve Fund in loans to local authorities for the purpose of providing for their staff housing needs at the current ruling rate for local authority loans—i.e., 4 per cent. There is provision under the Housing Act for the granting of loans to employers, and this has provided an avenue of assistance for such branches of industry as dairy companies and lineworks. The Rural Housing Act 1939, and subsequent amendments thereto, provide facilities for the granting of financial assistance to farmers requiring new houses for themselves or their employees, or desiring to improve their existing houses. The County Councils have been charged with the duty of investigating the loan applications, and provided they are satisfied with the security, etc., they have authority to approve a loan subject to the prior consent of the Board of Management of the State Advances Corporation. Loans are made to local authorities bearing interest at 3½ per cent (rate charged by the county to the farmer borrowers is 4 per cent), and are repayable on the amortization system over terms of up to thirty-five years. The amount that may be advanced for the erection of a house under this scheme has been raised from £1,500 to £2,000, and the suspensory loan benefits described in Section 33B are available to applicants who comply with the conditions laid down. The response to the benefits offered by this legislation has so far been poor. Of the 125 County Councils in New Zealand, only 47 have applied for loans, and of authorized loans totaling £955,550 at 31 March 1953 only £343,189 (in respect of 417 houses) had been uplifted.

Where any farm is situated within any borough, town district, or road district, similar powers are conferred on the local authority concerned.

Reference to the provisions made for the governmental financing of home building on behalf of private owners is contained in the Section of this Year-Book dealing with State Advances (Section 33B).

Borough Councils are authorized under the Municipal Corporations Act to provide loans for housing purposes up to a limit of £2,020; to subdivide for such purposes any land vested in a Council and not held by it in trust for any particular purpose other than housing; and to sell or lease allotments for housing purposes. Local authorities may also apply to the local Government Loans Board for blanket authorities for the purchase of land for subdivision for housing purposes. Local authorities are being encouraged to play a more prominent part in the housing of their citizens.

Statistics of Building Activity.—A collection of annual statistics of building permits issued in cities, boroughs, and town districts was initiated in 1921–22, while a monthly collection on a more restricted scale was begun in 1926, and enlarged in April 1951 by the inclusion of a further twenty-one local authorities. The collection of rural statistics was first made for the 1937–38 year. From 1925 to 1941 an annual collection of returns from builders and contractors was obtained, affording, *inter alia*, an analysis of costs, etc., not available from the building permit statistics. The results of a further collection undertaken in 1951–52 are shown at the end of this Section.

THE HOUSING SITUATION.—As will be obvious from a perusal of the statistics of building permits and building construction given later in this Section, building operations fell to small proportions during the depression years. With the advent of better times, accompanied by a large increase in the number of marriages and a growing tendency to discontinue the sharing of homes by two families, there arose in many cities and towns a housing demand far in excess of the available supply. The position was aggravated by the fact that a considerable proportion of the existing dwellings did not comply with modern standards of comfort, convenience, and sanitation.

Although the Government's housing programme, inaugurated in March 1937, had made substantial progress and had added considerably to the numbers of houses that were being built, the outbreak of war further aggravated the problem. The transfer of men and materials to urgent defence works, referred to earlier, reduced dwelling construction to almost negligible proportions for a period. The early war years witnessed a large increase in the number of marriages, and, although there was a considerable fall during the next three years, the termination of the war saw a substantial rise, culminating in a new record in 1946. These factors, together with the rehabilitation of ex-servicemen generally, resulted in an unprecedented demand for housing accommodation.

According to the annual report of the State Advances Corporation for the year 1952–53, there were 29,256 unsatisfied applications for tenancies of State rental houses at 31 March 1953. This represented a reduction of 3,442 on the number of unsatisfied applicants at 31 March 1952, owing in part to the operation of the income limitation applicable to State tenancies and also to a number of applicants having solved their housing problems in other ways. Of the 29,266 unsatisfied applications, 9,908 were classified as urgent cases.

STATISTICS OF THE 1951 CENSUS.—The following summary tables give dwelling statistics as recorded at the 1951 census together with, for purposes of comparison, the corresponding 1945 figures wherever possible.

In 1951 a standard classification was used for both European and Maori dwellings, but in 1945 dwellings occupied by Maoris were classified on a different basis to European dwellings, both for nature and tenure. It has been possible to include Maori dwellings in the classification shown for 1945 by nature of dwelling, but not for several of the other tabulations given later. Except for the nature of dwelling table, subsequent tables relate to occupied permanent private dwellings only.

Nature of Dwelling.—The first table is concerned with the nature of dwelling.

Nature of Dwelling	Numbers		Percentage of Total Inhabited	
	1945	1951	1945	1951
A. Inhabited dwellings—				
Permanent private dwellings—				
Private house, not partly sub-let	365,120	437,078	85.18	86.56
Private house, partly sub-let	1,697	1,225	0.39	0.24
Flat	28,175	35,021	6.57	6.94
Combined shop and dwelling, rooms attached to offices, etc.	8,391	8,040	1.96	1.59
Bach, hut	14,519	12,393	3.39	2.45
Other	1,015	255	0.24	0.05
Totals	418,917	494,012	97.73	97.83
Temporary dwellings—				
Mobile residences	*	1,675	*	0.33
Other	615	833	0.14	0.16
Totals	615	2,508	0.14	0.49
Non-private dwellings—				
Hotels, boardinghouses, etc.	7,293	6,354	1.70	1.26
Public and private hospitals	519	515	0.12	0.10
Camps	374	550	0.09	0.11
Other (including not specified)	952	1,048	0.22	0.21
Totals	9,138	8,467	2.13	1.68
Grand totals, inhabited dwellings	428,050	504,987	100.00	100.00
B. Uninhabited dwellings—				
Untenanted dwellings	7,036	7,747		
Occupants temporarily away	5,896	9,307		
Baches (week-end or summer dwellings)	10,975	15,615		
Totals	23,907	32,669		
C. Building—				
Dwellings in course of erection	5,542	9,597		
* Included in other permanent private dwellings.				

The chief points observed in the above table are the increases of 71,486 private houses, 6,846 flats, and 8,762 uninhabited dwellings, and the decrease of 939 in hotels, boardinghouses, etc. While the increase in dwellings results from new construction work, part of the flat increase occurs from the subdivision of larger dwellings.

The 1945 census was taken in September and the 1951 census in April, and this may not be without effect on the number of mobile residences—which include caravans—returned at the latter census, and the larger increase in dwellings where the occupants were temporarily away.

A classification was made in 1951 of flats showing type of building and amenities, and details are given in the following table.

Question	Flats Only: Numbers in Which Answers were Recorded as—			Total
	Yes	No	Not Specified	
Whether built as a flat	18,082	16,190	749	35,021
Whether flat has for own exclusive use—				
Cooking facilities	33,951	624	446	35,021
Bathroom	27,746	6,681	594	35,021
Toilet	27,884	6,499	638	35,021

Tenure of Dwelling.—The following table classifies permanent occupied private dwellings by tenure.

Tenure	Numbers		Percentage of Total Specified	
	1945 (Excluding Maori Dwellings)	1951	1945 (Excluding Maori Dwellings)	1951
Renting or leasing	142,717	148,679	35.44	30.25
Free dwelling provided with job	24,600	31,502	6.13	6.41
Loaned without payment	6,475	9,122	1.61	1.86
Buying on time payment or with table mortgage	72,217	94,625	17.93	19.25
With flat mortgage	54,265	56,296	13.47	11.45
Unspecified mortgage cases		279		0.06
Owned without mortgage	102,358	150,985	25.42	30.72
Not specified	612	2,524		
Totals	403,334	494,012	100.00	100.00

The figures shown for the 1945 census are exclusive of dwellings occupied by Maoris, for which full details of tenure are not available. Of the details available, and excluding temporary dwellings and unspecified cases 8,592 (54.84 per cent) were recorded as owned; 4,930 (31.47 per cent) as rented; and 2,144 (13.69 per cent) as rent free.

If Maori dwellings are included in the 1945 figures, the percentages for renting or leasing, rent free, and owned dwellings (including all types of mortgage) are 35.29, 7.96, and 56.75 respectively, compared with 30.25, 8.27, and 61.48 per cent respectively for 1951.

The substantial increase in "owned" dwellings is mainly in the categories owned without mortgage and buying on time payment or with table mortgage; flat mortgages have shown little change in numbers.

Size of Dwelling.—In the next table the same class of dwellings is divided into categories varying according to the number of rooms in each dwelling.

Number of Rooms	Numbers	Percentage of Total Specified
-----------------	---------	-------------------------------

Number of Rooms	1945 Numbers 1951		1945 Percentage of Total Specified	
	1945	1951	1945	1951
1	1945 817	1951 296	2.35	1.90
2	18,606	20,846	4.46	4.25
3	34,671	39,309	8.30	8.02
4	116,763	124,088	27.97	25.32
5	139,349	167,773	33.38	34.23
6	66,570	85,709	15.94	17.49
7	19,887	27,205	4.76	5.55
8	7,028	9,518	1.68	1.94
9	2,456	3,350	0.59	0.68
10 and over	2,358	3,040	0.57	0.62
Not specified	1,609	3,878		
Totals	419,114	494,012	100.00	100.00

* Figures include all Maori dwellings with the exception of temporary dwellings and tents occupied by Maoris.

The outstanding feature of the above table lies in the marked concentration of medium-sized dwellings. Single-roomed dwellings decreased by 521; all other dwellings showed increases. As a proportion of the total, medium-sized dwellings of from three to six rooms remained practically constant, while the larger-sized dwelling of seven or more rooms increased from 7.60 per cent to 8.79 per cent between 1945 and 1951.

Occupants of Dwellings.—In this case the classification is according to the number of occupants per dwelling.

Total Occupants	Number of Cases		Percentage of Total	
	1945	1951	1945	1951
1	37,794	44,934	9.02	9.10
2	91,769	115,369	21.90	23.35
3	89,222	102,905	21.29	20.83
4	81,780	97,247	19.51	19.68
5	54,940	63,857	13.11	12.93
6	30,606	35,177	7.30	7.12
7	15,930	16,950	3.80	3.43
8	8,055	8,450	1.92	1.71
9	4,225	4,197	1.01	0.85
10 and over	4,793	4,926	1.14	1.00
Totals	419,114	494,012	100.00	100.00

* Figures include all Maori dwellings with the exception of temporary dwellings and tents occupied by Maoris.

In any comparison between the 1945 and 1951 figures in the above table it must be kept in mind that the occupancy figures for the 1945 census were affected by troop movements. Besides 45,381 members of the armed forces overseas at the 1945 census, there were many thousands in the forces in New Zealand, located in camps or on stations, or on demobilization leave, etc.

Rooms by Occupants.—The following table gives the number of occupants of dwellings of various sizes at the 1951 census, and also shows the average number of occupants per dwelling.

Number of Occupants	Number of Rooms										Total	
	1	2	3	4	5	6	7	8	9	10 and Over		Not Specified
1	5,992	6,454	6,330	11,089	8,603	3,927	1,147	447	143	115	687	44,934
2	1,570	7,349	13,095	34,372	35,362	15,689	4,389	1,571	515	495	962	115,369
3	707	3,440	8,584	29,350	35,065	17,041	5,042	1,779	638	549	710	102,905
4	404	1,702	5,844	25,223	37,119	17,942	5,428	1,799	632	570	584	97,247
5	215	756	2,649	12,832	26,446	13,520	4,602	1,478	500	465	394	63,857
6	130	452	1,219	5,800	13,872	8,588	3,009	1,074	418	358	257	35,177
7	94	272	641	2,588	6,112	4,417	1,675	606	207	208	130	16,950
8	73	169	376	1,258	2,715	2,286	885	360	133	126	69	8,450
9	41	92	214	690	1,219	1,105	473	184	68	74	37	4,197
10 and over	70	160	357	886	1,260	1,194	555	220	96	80	48	4,926
Totals	9,296	20,846	39,309	124,088	167,773	85,709	27,205	9,518	3,350	3,040	3,878	494,012
Average number of occupants	1.84	2.43	2.94	3.32	3.80	4.08	4.31	4.33	4.42	4.40	3.33	3.61

It should be noted that the dwellings used in the computations are inclusive of flats and tenements. The inclusion of Maori dwellings tends to increase the average number of occupants.

Materials of Outer Walls.—The last table of this series gives an analysis showing the materials of which the outer walls are constructed.

Material of Outer Walls	1951 Census
Wood	374,566
Stone	1,086
Concrete, including concrete blocks	14,465
Concrete and wood	1,375
Brick, including hollow brick	34,561
Brick and wood	3,680
Brick and other material	2,939
Wood and iron	5,270
Wood and proprietary wallboard	2,407
Iron	5,357
Asbestos	1,543
Proprietary wallboard of asbestos type	19,002
Rough cast on wood (lath and plaster)	5,313
Rough cast n.o.d.	8,209
Other materials	5,432
Not specified	8,807
Total	494,012

Over 75 per cent of dwellings in New Zealand are of wooden construction, but concrete, brick, proprietary wallboards, and rough cast all showed substantial increases in numbers since 1945. The use of stone slates in building construction has shown a very great increase, although the numbers built in this material are still small compared with the more orthodox materials.

STATE HOUSE CONSTRUCTION.—A programme of direct home building by the Government was commenced in March 1937. The purpose of this branch of the Government's activities was to provide homes of a modern standard of comfort to be let at reasonable rentals to people in the medium and lower income groups. The legislative provision for this programme is contained in the Housing Act 1919, the administration of which was transferred to the State Advances Corporation by the State Advances Corporation Act 1936. To give effect to the Government's policy a special Housing Construction Branch of the State Advances Corporation was set up in September 1936. Early in 1944 the control of the Housing Construction Branch was transferred to the Ministry of Works.

The State Advances Corporation Act 1936 made provision for a special Housing Account with the Reserve Bank, and the Statutes Amendment Act 1936 provided the necessary authority to acquire land under the Public Works Act 1928 for the purpose of housing. The actual construction work is mainly carried out by contractors, tenders being called for the various contracts. The Housing Division has also built a number of houses by trainees under the

scheme for the rehabilitation of returned servicemen. Up to 31 March 1953 contracts had been arranged with the Rehabilitation Department for the labour involved in 4,443 houses situated in forty-two localities. While most of these houses are situated in the larger towns, in a few instances the rehabilitation trainees have been employed in isolated districts where the Housing Division has been unable to engage private contractors. As the recruitment of ex-servicemen trainees has ceased, the construction of houses by trainees is rapidly drawing to a close, and at 31 March 1953 only 65 trainees were employed on State housing. In past years shops were built in some State housing settlements for letting purposes, but the current policy is to sell sites (with a preferential allocation in favour of ex-servicemen) for the erection of shops under private ownership. On completion, houses are handed over to the State Advances Corporation for administration. It also administers the shops built in earlier years.

In addition to the general scheme, the organization of the Housing Construction Division is utilized for the purpose of erecting houses for other Government Departments, and houses have been built for twenty-five Departments of State. Units completed under this arrangement totalled 4,445 up to 31 March 1953, with a further 485 in the constructional stage. Included in this total are houses built for armed forces personnel. In the period 1 April 1950 to 31 March 1953 contracts were let for the construction of 1,037 houses for the Navy, Army, and Air Force. A subsidiary scheme within this general framework is of interest. It covered the erection of houses and other farm buildings for returned servicemen. The scheme was recommended by the Farm Sub-committee of the Rehabilitation Department and approved by the Land Settlement Board. The land is purchased, subdivided, developed, and the houses and other buildings taken over by the Department of Lands and Survey. Each farm is valued on the basis of production, and the tenants, who are chosen by ballot, have the option of purchase or lease. At 31 March 1953, 994 houses and 3,433 ancillary farm buildings had been completed, while under construction figures were 31 and 11 respectively. A second scheme, for which applications were considered from 1946 to 1 September 1949, dealt with the construction of portable prefabricated houses to meet the special conditions found in the timber-milling industry. By 31 March 1953, 691 of these housing units had been completed and 2 more were in course of construction.

The Government has commenced a building scheme by the Housing Division of the Ministry of Works in which dwellings of State house standard are being erected for sale to members of the community who are ineligible for a State house—i.e., prevented by reason of income restrictions (at present £680 per annum) from making application. In these cases the houses are erected complete, but fencing, laying of paths, etc., is carried out by the purchaser.

In the four chief centres the Government also proposes that the Housing Division of the Ministry of Works will commence the erection of houses which when partially built will be sold to private individuals, who will do the finishing such as painting, interior finishing, paths, fences, etc.

The following table shows the cumulative progress, since the inception of the present housing scheme, at 31 March of each year given.

Cumulative Totals to 31 March	Units in Contracts Let	Houses Completed and Handed Over to—		House-unit Sections Acquired
		State Advances Corporation	Other Government Departments and Miscellaneous	
	Units	Units	Units	Units
1943	16,799	14,619	273	36,613
1944	19,487	15,475	297	40,184
1945	22,349	17,392	349	42,061
1946	25,331	20,248	478	45,838
1947	28,424	22,590	731	48,751
1948	32,128	25,465	1,066	50,510
1949	36,355	28,879	1,845	51,426
1950	40,586	32,267	2,464	54,470
1951	42,512	35,633	3,133	52,666
1952	45,042	37,750	3,793	55,224
1953	49,233	39,974	4,445	58,923

The total labour force employed directly by the Housing Division and contractors at 31 March 1953 was 4,350, as compared with 3,276 in 1952, 3,963 in 1951, and 6,552 in 1950.

The next table gives particulars of the cumulative expenditure, since its inception, of the Housing Division at 31 March of each year given.

Cumulative Totals to 31 March	Land and Services	Dwelling Construction		Plant and Equipment	Interest During Construction	Administration	Total
		Housing Branch	Other Departments				
	£	£	£	£	£	£	£
1943	3,665,500	17,316,200	325,200	68,300	117,600	685,700	22,178,500
1944	4,212,300	18,326,200	523,700	69,800	154,000	659,100	23,945,100
1945	4,934,000	21,690,600	678,600	76,300	226,200	805,000	28,390,700
1946	5,621,000	25,840,800	1,203,500	88,500	276,400	985,800	34,016,000
1947	6,518,500	30,050,500	1,864,000	105,800	353,100	1,228,500	40,120,400
1948	7,347,100	34,629,300	2,632,600	148,100	402,300	1,600,000	46,759,400
1949	8,522,400	40,515,800	4,000,500	168,700	472,200	1,966,100	55,645,700
1950	9,881,800	47,686,900	5,643,600	190,200	582,200	2,369,600	66,354,300
1951	11,115,700	54,278,400	7,210,300	193,200	687,300	2,723,500	76,208,400
1952	12,267,200	58,663,200	8,245,400	194,900	770,700	3,078,500	83,219,900
1953	13,906,500	65,190,900	9,371,100	200,400	863,200	3,441,700	92,973,800

In addition to the cumulative net expenditure of £92,973,800 to 31 March 1953, liabilities and commitments at that date amounted to a further £9,775,557.

The total cost of administration (exclusive of interest charges) from the inception of the scheme to 31 March 1953 was £3,441,700, or 3.88 per cent of the net expenditure (excluding administrative costs and interest). This percentage for the year ended 31 March 1953 was 3.91.

In general, the size of dwelling units built by the Housing Division is determined by the size of the families seeking accommodation. The tendency in later years has been to build a higher proportion of larger-sized houses than formerly. The following table provides an analysis according to the number of bedrooms contained in units built during 1951–52 and 1952–53, together with the total to the end of March 1953.

—	Units Completed					
	1951–52		1952–53		Total to Date	
	Number of Units	Percentage of Total	Number of Units	Percentage of Total	Number of Units	Percentage of Total
One-bedroom flats and bed-sitting room			231		0.5	
One bedroom	126	4.5	80	3.0	2,898	6.5
Two bedrooms	694	25.0	718	26.0	17,182	39.0
Three bedrooms	1,767	63.5	1,783	64.0	21,208	48.0
Four bedrooms and over	189	7.0	196	7.0	2,800	6.0
Totals	2,776	100.0	2,777	100.0	44,319	100.0

MAORI HOUSING.—Financial assistance to Maoris in need of houses is available under the Maori Housing Act 1935 towards the purchase of building sites and erection of dwellings thereon, additions and repairs to existing houses, purchase of houses, installation of water, power, and other services. The lending authority is the Board of Maori Affairs. Section 18 of the Maori Housing Amendment Act 1938 established a fund called the Special Maori Housing Fund, and use of this fund enables the Board of Maori Affairs to provide houses for Maoris who, in the opinion of the Board, come under the definition of indigent and who are unable to furnish the security or make the payments which the Board would ordinarily require in respect of advances under the principal Act.

In addition to providing finance, the Department through its building organization attends to construction where contracts from private building contractors cannot be obtained inside the loan limits plus the applicant's cash resources. In practice this means that the bulk of houses being erected for Maoris are built by the Department's building organization, and generally these are in rural areas where it is not possible to obtain private building contractors. The Department has established a comprehensive series of standard plans covering all the different bedroom types to meet the special needs of the Maori people. In determining its building programme the Department tries to ensure that the most needy cases are housed in order of urgency and merit. Where it is evident that the Maori applicant can afford a house built by a private contractor he is expected and encouraged to use that avenue when possible.

Maoris qualify for suspensory loans under the Suspensory Loan Scheme, with houses built since 1 December 1949 either by the Department or by private building contractors, on the same terms and conditions as apply to Europeans. In some of the larger towns and cities special Maori State housing allocation committees are established and they receive a special quota of State rental houses based on the proportion of urgent Maori applications held in relation to Europeans.

The following summary shows the number of new houses built, the number of houses purchased, and the number of renovations and additions to houses, etc., from inception of the building organization of the Department to 31 March 1952 and 1953.

—	Total to 31 March	
	1952	1953
Houses erected	3,292	3,748
Houses purchased	364	382

	Total to 31 March	
	1952	1953
Other building work (renovations and additions to houses, cowsheds, and other buildings)	2,752	3,084
Totals	6,408	7,214

In addition to the above, there were 178 houses and 99 other building works in course of erection at 31 March 1953.

BUILDING PERMITS: Annual Statistics.—Statistics of building permits issued in cities, boroughs, and town districts during each March year have been collected for 1921–22 and subsequent years—for use, *inter alia*, as an aid in compiling inter-censal estimates of population. These statistics afford a conspectus of changes in building activity from year to year. There is, however, a factor which may affect to some extent the accuracy of the figures as a guide to short-period fluctuations in building activity. This applies more particularly to buildings other than dwellings, and is found in the fact that the value shown represents, in the great majority of instances, the total contract price or estimated cost of the whole building. A permit for a large building involves building activity spread over months, or even years, whereas in the permit statistics the value is shown wholly for the year or month in which the permit is issued. This qualification applies with greater force to the monthly statistics than to the annual statistics.

Building Permits in Urban and Rural Districts Combined.—The following table gives a summary for New Zealand of building permits (including State building operations) for the years ended 31 March 1952 and 1953.

	1951–52			1952–53		
	New Dwellings: Number	New Dwellings: Value	Total All Buildings: Value	New Dwellings: Number	New Dwellings: Value	Total All Buildings: Value
		£	£		£	£
Urban districts	12,443	27,762,908	46,279,391	11,700	28,045,241	47,179,870
Rural districts	4,668	8,694,155	12,963,868	4,517	9,232,993	13,948,124
Totals	17,111	36,457,063	59,243,259	16,217	37,278,234	61,127,994

The scope of urban districts was extended from 1 April 1951 by the inclusion of a further five counties, which were mainly urban in character.

Although statistics of building activity have been collected since 1921–22 for urban districts, the collection of rural statistics was not commenced until 1937–38. In many cases for rural districts estimates only were supplied, while in some instances, no data whatever could be obtained. Since 1947–48, however, the Building Controller's authorizations have been used where counties could not supply information. While possibly the inclusion of authorizations may overstate the position slightly, their use has enabled a complete coverage for counties.

The following table shows a summary of New Zealand building activity since 1937–38.

Year Ended 31 March	Permits Issued for New Dwellings			Total Value, All New Dwellings	Total Value, All Building
	Private	Government	Total		
				£	£
1938	4,877	2,167	7,044	5,933,906	11,568,968
1939	5,601	4,110	9,711	7,024,126*	14,246,784
1940	5,299	4,387	9,686	7,162,248*	13,025,705
1941	4,894	3,983	8,877	6,128,307*	12,788,172
1942	4,282	2,890	7,172	5,082,799*	10,515,341
1943	1,020	614	1,634	750,863*	3,459,585
1944	2,742	2,194	4,936	3,640,808*	9,909,322
1945	5,367	3,334	8,701	8,141,564*	15,132,005
1946	7,359	2,997	10,356	13,937,294	20,731,634
1947	9,808	3,068	12,876	18,121,180	26,880,159
1948	10,538	3,510	14,048	21,205,232	29,315,141
1949	11,606	4,530	16,136	25,583,361	36,008,697
1950	12,262	5,395	17,657	28,999,312	42,477,415
1951	14,551	3,298	17,849	32,727,973	48,769,604
1952	14,297	2,814	17,111	36,457,063	59,243,259
1953	12,607	3,610	16,217	37,278,234	61,127,994

* Value of new private dwellings in rural areas not available in these years.

Building Permits in Urban Districts.—In the next table, figures since the inauguration of the statistics are given under two headings, one showing the totals for all urban districts covered in the particular year, and the second showing the totals for only cities, boroughs, and town districts. Data in respect of rural building will be found later in this Section.

Year Ended 31 March	All Urban Districts Covered			Cities, Boroughs, and Town Districts		
	Number of New Private Dwellings	Value of New Buildings: All Classes	Total Value All Buildings (Including Alterations and Additions)	Number of New Private Dwellings	Value of New Buildings: All Classes	Total Value All Buildings (Including Alterations and Additions)
		£	£		£	£
1922	4,330	4,602,834	5,283,012	4,330	4,602,834	5,283,012
1923	5,025	6,124,439	7,101,681	5,025	6,124,439	7,101,681
1924	6,245	7,708,933	9,146,479	6,245	7,708,933	9,146,479
1925	5,805	7,823,331	9,304,160	5,805	7,823,331	9,304,160
1926	6,850	8,613,549	10,169,530	6,850	8,613,549	10,169,530
1927	7,179	9,357,977	11,019,389	6,752	8,944,334	10,575,535
1928	5,690	8,127,732	9,665,216	5,388	7,843,773	9,353,055
1929	5,212	7,326,464	9,054,421	4,871	6,988,408	8,691,962
1930	5,747	7,917,349	9,959,877	5,238	7,362,998	9,336,301
1931	3,463	4,240,238	5,473,395	3,200	4,056,274	5,260,620
1932	1,555	1,936,447	2,728,486	1,415	1,847,508	2,620,651
1933	1,496	1,874,795	2,474,866	1,306	1,773,313	2,341,690
1934	2,649	3,141,897	3,889,800	2,416	2,987,773	3,718,717
1935	2,892	2,742,495	3,643,688	2,655	2,612,684	3,492,062
1936	4,140	4,695,736	5,929,803	3,835	4,468,126	5,674,198
1937	4,555	4,927,326	6,581,233	4,207	4,675,363	6,273,444
1938	6,043	8,217,400	10,291,613	5,568	7,876,352	9,909,225
1939	8,093	10,196,476	12,126,458	7,425	9,515,747	11,431,491
1940	8,086	9,790,118	11,418,434	7,429	9,136,670	10,714,396
1941	7,147	9,147,885	11,060,101	6,099	8,024,595	9,763,200
1942	5,503	6,958,997	8,984,177	4,989	6,436,113	8,185,669
1943	863	1,363,091	2,661,947	767	1,269,330	2,500,240
1944	3,604	5,528,583	8,309,861	3,220	4,975,325	7,587,983
1945	6,698	10,405,115	12,756,999	6,170	9,583,539	11,800,649
1946	7,736	14,314,686	16,944,395	7,027	13,230,581	15,736,941
1947	9,516	17,626,543	21,159,504	8,356	15,450,534	18,773,002
1948	9,854	18,280,334	21,426,625	8,890	16,618,957	19,559,814
1949	11,102	21,971,602	26,430,453	9,585	18,835,614	23,045,773

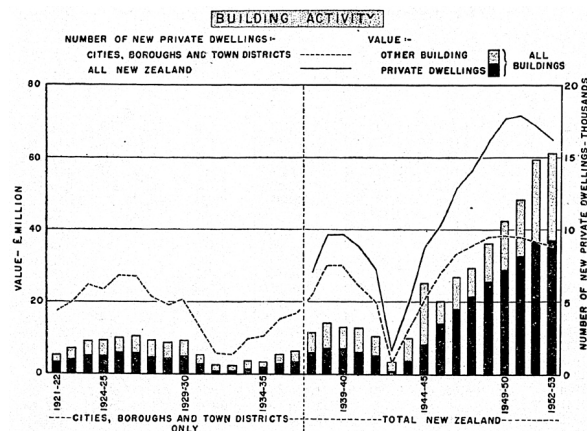
NOTE.—The large increase in urban district figures for 1951–52 came largely from the inclusion therein for the first time of five counties previously included in rural districts.

Year Ended 31 March	All Urban Districts Covered			Cities, Boroughs, and Town Districts		
	Number of New Private Dwellings	Value of New Buildings: All Classes	Total Value All Buildings (Including Alterations and Additions)	Number of New Private Dwellings	Value of New Buildings: All Classes	Total Value All Buildings (Including Alterations and Additions)
1950	11,530	24,219,487	30,365,528	9,613	20,720,772	26,513,536
1951	11,379	27,679,694	35,030,647	9,510	23,789,841	30,659,763
1952	12,443	36,618,571	46,279,391	9,188	29,421,224	38,117,762
1953	11,700	37,082,033	47,179,870	8,836	30,079,506	39,340,882

NOTE.—The large increase in urban district figures for 1951–52 came largely from the inclusion therein for the first time of five counties previously included in rural districts.

The figures shown for "cities, boroughs, and town districts" cover the districts existing in the year to which the statistics refer. Since these statistics were inaugurated, however, several new boroughs and town districts have been created and are accordingly included, while a few town districts have been excluded consequent on their abolition as town districts and their merger into counties. The net result has, however, been a gradual accession which has tended to raise slightly the figures for later years.

The accompanying diagram, illustrating building-permit figures relating to all cities, boroughs, and town districts in the year concerned and to New Zealand totals since 1937–38, shows the low level to which building operations fell during the depression period. The subsequent gradual recovery, accelerated by the Government's programme of house building which commenced in 1936–37, the effect of war conditions, and the post-war impetus to building, are all clearly illustrated.



Statistics relating to new private dwellings include units in transit camps run by State or local authorities where these are in effect of a semi-permanent nature. However, "workmen's huts," etc. as in railways or public-works camps, are not included.

Dwelling statistics also include all flats commenced, each flat in a block being treated as a single "new dwelling." During the year ended 31 March 1953, 58 blocks of flats, totalling 215 individual dwelling units, were commenced in urban districts.

The following table shows details for the last ten years of blocks of flats included in the numbers of dwelling permits issued for cities, boroughs, and town districts.

Year Ended 31 March	Cities, Boroughs, and Town Districts	
	Blocks	Number of Flats
1944	39	149
1945	85	390
1946	79	353
1947	80	238
1948	74	263
1949	67	236
1950	62	174
1951	51	141
1952	64	223
1953	54	207
1954	73	189

Urban Districts — Flats

Revised basis as from 1 April 1951.

Year ended 31 March	Blocks of Flats	Number of flats
1952	66	227
1953	57	213
1954	80	207
1955	129	397

These figures cover only buildings erected as blocks of flats. Where conversion of existing private dwellings into flats has taken place, the value is included in alterations and additions.

The statistics quoted in the preceding paragraphs relate only to the main types of building activity. More detailed statistics are included in the annual Statistical Report on Population and Buildings, where, *inter alia*, permit statistics for individual towns, counties, etc., are given.

The total value of urban building operations in the year 1952–53 again continued the upward trend apparent in recent years, and the value, £47,179,870, constituted a record for the thirty-two years during which building permit statistics have been collected. The increase over 1951–52 was £900,479, or 1.9 per cent.

The number of permits issued in 1952–53 for the erection of new dwellings was 11,700, a decrease of 743 compared with 1951–52. The value of dwellings, however, showed an increase of £282,333. It is interesting to note that in 1951–52 the average value of a dwelling was £2,231, as against £2,297 in 1952–53.

New "other buildings" together with alterations and additions showed an increase in value of £618,146, or 3.3 per cent, as compared with 1951–52.

Statistics for years prior to 1951–52, quoted in the following table, are on the revised basis of urban districts as from 1 April 1951, and are thus comparable with those for later years.

BUILDING PERMITS ISSUED—URBAN DISTRICTS

Year Ended 31 March	Dwellings		Other New Buildings and Alterations and Additions: Value	Total Value: All Buildings
	Number	Value		
			£	£
1949	12,270	20,430,689	7,823,560	28,254,249
1950	13,134	22,711,239	10,336,341	33,047,580
1951	13,102	25,165,138	12,708,801	37,873,939
1952	12,443	27,762,908	18,516,483	46,279,391
1953	11,700	28,045,241	19,134,629	47,179,870

The following table arranges districts with building values of over £250,000 in 1952-53 in descending order.

1952-53	
	£
Auckland City	3,936,081
Christchurch City	2,570,828
Wellington City	1,995,455
Waitemata County	1,865,109
Palmerston North City	1,740,743
Waimairi County	1,583,066
Lower Hutt City	1,562,908
Hamilton City	1,559,263
Dunedin City	1,459,256
Mount Roskill Borough	1,236,971
Hutt County	1,130,638
Mount Wellington Borough	1,066,787
Makara County	1,049,272
Manakau County	960,758
New Plymouth City	798,425
Upper Hutt Borough	708,083
Takapuna Borough	669,257
Gisborne Borough	663,786
Invercargill City	645,060
Nelson City	641,882
Hastings Borough	638,493
Timaru City	614,773
Napier City	593,621
Tauranga Borough	579,713
Wanganui City	565,821
Papatoetoe Borough	524,846
One Tree Hill Borough	488,461
Paparu County	418,152
Whangarei Borough	394,974
Masterton Borough	393,646
Taiari County	375,263
Te Awamutu Borough	339,670
Mount Albert Borough	325,588
Blenheim Borough	320,805
Riccarton Borough	315,480
Levin Borough	304,517
Rotorua Borough	285,560
Moncks Bay Borough	276,866
Whakatane Borough	270,336
Heathcote County	265,835
Papakura Borough	254,225
Putaruru Borough	250,502

Building Permits in Rural Districts.—In view of the importance of the housing question a collection of data from counties was inaugurated in the year ended 31 March 1938. For some years building statistics had been obtained from the counties of Hutt, Makara, Waimairi, and Heathcote, and the road district (Panmure Township) of Eden County and these were included in urban building statistics. As from 1 April 1951 the counties of Waitemata, Manakau, Paparu, Peninsula, and Taiari, previously included in rural districts, were added to the urban building statistics. The great majority of the population in these counties and in the road district is urban, and they were included in order to obtain more complete statistics of building activity for the urban areas of Auckland, Hutt, Wellington, Christchurch, and Dunedin.

The tabulation for rural districts was therefore confined to the remaining counties. Road Boards are functioning on Waikato Island, and these are included in the collection. Most rural districts were able to supply the information required, which in their case was limited to the number of private dwellings and the total value of all buildings. In the few instances where these counties were unable to furnish reliable building data the Building Controller's authorizations have been incorporated in the statistics. The use of these figures will result in a slight overstatement if any authorizations are not proceeded with, but it provides complete coverage for rural districts.

Data are available for all Government building in rural districts and have been included in the total for rural building.

Excluding the nine counties and the road district which are included in urban districts, the total value of rural building in 1952-53 amounted to £13,948,124, an increase of £984,256 as compared with the 1951-52 figures for the same districts. The number of new dwellings was 4,517, a decrease of 151 from the preceding year.

The following table arranges counties with building values of over £250,000 in 1952-53 in descending order.

1952-53	
County	£
Southland	717,919
Matamata	686,676
Hawke's Bay	685,322
Waikato	589,190
Waipa	547,506
Tauranga	536,308
Waimea	517,889
Rotorua	445,424
Opoitiki	317,310
Whakatane	305,871
Franklin	303,506

1952-53	
Halswell	292,736
Piako	274,536

The total value of building for the nine counties and the road district included in the total for urban districts in 1952-53 was £7,838,988 and the number of new dwellings 2,864. The comparable value for 1951-52 was £7,654,936 and the number of new dwellings 3,115.

State Building Operations.—The erection of houses by the Housing Division of the Ministry of Works was commenced in March 1937 with 22 units in Wellington City. Details of units commenced for the last ten years are as follows.

Year Ended 31 March	Urban Districts	Rural Districts
1944	1,850	66
1945	3,211	44
1946	2,630	245
1947	2,603	166
1948	2,656	409
1949	3,641	470
1950	4,130	686
1951	2,020	734
1952	1,914	386
1953	2,880	435

Prior to 1948 details of dwellings were tabulated showing the numbers of single unit and multiple dwellings (including blocks of flats) erected by the Housing Division of the Ministry of Works, but this information is no longer available. During the five years ended March 1948, 1,638 multiple dwellings (comprising 3,617 units) were commenced.

The Housing Division has also commenced building schemes by which houses are constructed, either wholly or partially, for sale to purchasers who are ineligible to apply for State rental houses because of the income restriction (refer page 599).

Houses are also erected by the Department of Maori Affairs, under its various development schemes, particulars of which will be found earlier in this Section.

In addition to the above schemes, dwellings are erected by or for the Ministry of Works, Railways Department, Mines Department, Department of Education, etc.

In all, a total of 3,610 Government houses (2,940 in urban and 670 in rural districts) were commenced in 1952-53, compared with 2,814 (1,960 in urban and 854 in rural districts) in 1951-52.

The following table shows urban districts in which twenty or more houses were commenced during 1951-52 and 1952-53 by the various Government Departments concerned.

—	New Dwellings	
	1951-52	1952-53
Cities and Boroughs—		
Takapuna	60	56
New Lynn	22	
Auckland City	249	412
Mount Wellington	20	156
Ellerslie	57	
Mount Roskill	153	138
Onahuhu	24	
Hamilton City	101	105
Matamata	20	21
Putaruru		29
Tauranga		50
Rotorua	26	22
Gisborne	46	34
Napier City	25	64
Hastings	28	29
New Plymouth City	45	48
Wanganui City	23	37
Palmerston North City	76	128
Lower Hutt City	120	186
Masterton		31
Nelson City		29
Rangiora		21
Riccarton	3	69
Christchurch City	56	163
Timaru City	29	60
Oamaru		23
Dunedin City	84	34
Green Island		37
Milton		27
Invercargill City		30
Other	307	297
Totals	1,604	2,336
Independent town districts—		
Tuupo		36
Other	16	40
Totals	16	76
Dependent town districts	2	
Road district and counties—		
Waitemata County		29
Hutt County	39	34
Makara County	79	210
Paparu County		20
Waimairi County	189	152
Taiari County		47
Other	31	36
Totals	338	528
Totals, urban districts	1,960	2,940

Rural districts (counties) in which the number was twenty or more in 1951-52 were: Waipa 21, Taupo 181, Whakatane 23, Marlborough 22, Maelvern 39, Waitaki 67, and Tuapeka 219; and in 1952-53, Waikato 26, Waipa 23, Matamata 47, Rotorua 49, Taupo 29, Whakatane 23, Waimarino 42, Rangitikei 50, Manawatu 20, Marlborough 35, Springs 29, and Tuapeka 41.

In 1951-52, in addition to the 2,814 houses, value £6,203,991, 132 new business premises, etc., value £2,635,712, were commenced. Alterations and additions amounted to £1,362,867, and the total value of all State building operations was £10,202,570. In addition to the 3,610 dwellings, value £9,375,749, commenced in 1952-53, 158 new buildings, other than dwellings, of value £2,376,360, were commenced, while alterations and additions amounted to £1,481,315. The total value of building operations by the Government covered in these statistics was therefore £13,233,424 in 1952-53.

Monthly Permit Statistics.—While the annual statistics of building permits issued afford an indication of year-to-year changes in the value and volume of building activity, short-period movements in building activity are of considerable interest, particularly in times of rapid economic change. With the purpose of providing information as to current changes in building activity, monthly statistics of building permits are collected from the larger centres.

The population growth of some boroughs and increases in building activity in some counties adjacent to the main cities made it desirable to widen the coverage of these statistics, and an additional twenty-one local authorities were included from 1 April 1951.

These returns now cover 62 per cent of the total population, but represent a considerably higher proportion of the total New Zealand building.

BUILDING PERMITS IN LARGER CENTRES

Month	New Buildings		Alterations to Existing Buildings		Totals	
	Dwellings Only	Totals	No.	Value	No.	Value
	No.	Value	No.	Value	No.	Value
1952		£		£		£
January	622	1,498,537	703	2,272,107	1,356	4,770,703
February	752	1,800,478	834	2,294,292	1,770	7,39,537
March	847	1,949,307	983	3,204,218	2,145	1,443,955
April	751	1,806,508	876	2,619,465	2,087	5,95,511
May	758	1,808,857	867	2,444,657	2,320	722,666
June	698	1,690,071	808	2,190,860	1,877	6,39,917
July	895	2,191,376	1,018	2,838,847	2,161	8,96,119
August	788	1,899,508	899	2,527,097	1,973	8,04,729
September	949	2,206,275	1,080	2,658,629	2,015	7,56,165
October	918	2,219,669	1,018	2,926,501	1,998	7,52,058
November	840	2,036,618	945	3,062,271	1,710	6,22,594
December	791	1,845,730	869	2,352,207	1,722	6,19,582
1953						
January	718	1,841,659	783	2,178,978	1,172	4,88,286
February	851	2,170,201	967	2,645,246	1,623	7,42,245
March	1,032	2,587,618	1,180	3,645,506	2,208	1,275,933
April	816	2,098,150	939	2,807,199	1,822	6,15,522
May	839	2,091,227	983	2,900,524	2,029	7,46,711
June	731	1,842,349	860	2,574,350	1,808	6,17,266
July	951	2,411,601	1,093	2,995,514	2,039	9,48,898
August	901	2,257,206	1,027	2,866,684	1,978	9,49,366
September	1,060	2,646,718	1,223	3,700,387	2,002	8,38,657
October	1,030	2,589,189	1,178	3,543,291	1,999	9,06,169
November	1,011	2,468,861	1,169	3,134,245	1,699	9,54,247
December	777	1,965,390	882	2,845,770	1,631	7,07,713

DWELLING UNITS COMPLETED.—Local authorities which supply building-permit figures have during the last five years also supplied particulars of new dwelling units which were completed in their districts. In a few instances local authorities were unable to comply with the request, and in these cases estimates have been made derived from authorities issued and other sources. All dwellings completed by the Government are included.

The results of this collection of statistics are given in the following table.

District	1948-49	1949-50	1950-51	1951-52	1952-53
Urban districts	11,600	12,000	12,350	11,900	11,900
Rural districts	3,600	3,800	4,050	4,400	4,200
Totals	15,200	15,800	16,400	16,300	16,100

While absolute accuracy cannot be claimed for these statistics—particularly as regards rural districts—it is believed that they will give reasonably approximate results and enable a comparison of year-to-year changes to be made.

BUILDING PRODUCTION.—The results of a collection of building statistics taken in 1952 are given in the material now presented, which shows, largely in tabular form, the operations of persons and establishments regularly engaged in the building trade. A statement summarizing the activities of owner-builders is given separately, details for this class of building construction being excluded from the tables relating to regular builders.

The scope of the collection represented a reasonably complete coverage of the industry, permits issued by local authorities forming the principal means through which the majority of builders engaged were traced and the required information obtained.

The statistics given in the tables, which refer generally to the year ended 31 March 1952, do not include the construction of railways, roads, streets, bridges, wharves, buildings, etc., by the General Government or by local authorities, except where, in the case of bridges, wharves, buildings, and other similar types of construction, the work was carried out by contract.

All Government building operations carried out by private individuals (State houses, schools, transit camps, hostels, etc.) are included with the exception of Maori housing and the activities of rehabilitation trainees. In regard to the latter, the total number of houses or units completed during the year 1951-52 was—Maori housing, 332; houses completed by rehabilitation trainees, 441.

Regular Builders, 1951-52.—The operations of persons and establishments regularly engaged in the building trade are summarized hereunder, together with comparative figures for the two years 1938-39 and 1947-48.

	1938-39	1947-48	1951-52
Number of establishments	1,579	2,344	2,948
Persons engaged	No. 14,040	15,153	20,896
Expenditure—			
Salaries and wages	£ 3,532,687	5,869,468	10,983,762
Materials used and sub-contracts	£ 8,952,702	15,392,715	27,764,346
Other expenses	£ 451,139	1,103,370	2,332,392
Totals	£ 12,936,528	22,365,553	41,080,500
Value of work done—			
Buildings (including alterations, additions, repairs)	£ 12,786,837	22,801,613	43,251,207
Bridges, wharves, jetties	£ 278,543	348,416	362,143
Other construction	£ 240,692	655,157	1,779,893
Totals	£ 13,306,072	23,805,186	45,393,243
Added value	£ 4,353,370	8,412,471	17,628,897

A feature of this industry worth recording is the large number of establishments operating as individuals or partnerships. The relation between these and establishments classified otherwise is shown hereunder for the year 1951-52.

	Individuals, Partnerships	Private and Public Companies	Co-operatives
Number of establishments	2,467	475	6

	Individuals, Partnerships	Private and Public Companies	Co-operatives
Persons engaged	No. 9,514	11,342	40
Expenditure—			
Salaries and wages	£ 4,613,565	6,345,647	24,550
Materials and sub-contracts	£ 14,208,796	13,457,271	98,279
Other	£ 1,177,236	1,152,111	3,045
Totals	£ 19,999,597	20,955,029	125,874
Value of work done	£ 22,305,895	22,948,768	138,580
Added value	£ 8,097,099	9,491,497	40,301

A short summary showing value of work, done for 1951-52 and classified by provincial districts is next given.

Provincial District	House Building	Other Building	Maintenance and Repairs	Bridges, Wharves, Jetties	Other Construction	Total
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Auckland	10,361	5,831	438	146	154	16,931
Hawke's Bay	1,213	440	91	5	20	1,769
Taranaki	1,378	361	82	7	10	1,838
Wellington	5,479	3,133	434	114	1,414	10,573
Totals, North Island	18,431	9,765	1,045	272	1,598	31,111
Marlborough	291	107	38	14	71	521
Nelson	960	500	70	6	5	1,540
Westland	80	108	13		7	209
Canterbury	4,211	2,009	351	44	40	6,656
Otago	2,986	1,873	413	27	58	5,357
Totals, South Island	8,528	4,597	885	91	181	14,283
Totals, New Zealand	26,958	14,364	1,929	362	1,780	45,393

Completed Buildings.—The tables following record statistics for regular builders of buildings completed during the year 1951-52. The total value of completions of buildings was £29,980,949, as against the value of work done during the same period of £41,321,809. It is obvious that the statistics do not give a full picture of building completions during the year; however, the coverage is high enough to warrant further classification of the results, particularly in view of the importance of the industry.

The following table shows the various types of buildings completed according to material of outer wall.

	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Other	Total
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Houses	12,175	4,051	542	1,267	2,687	229	243	21,194
Multiple units	238	55	52	49		24		417
Flats	158	66		16	53	25		318
Schools	1,088	68	25	57	41	111	16	1,405
Business premises	678	143	603	313	111	2,288	137	4,273
Other	1,161	73	193	141	53	680	73	2,375
Totals	15,498	4,456	1,413	1,842	2,946	3,257	469	29,931

The next table gives the number and value of houses completed by size and material of outer wall.

Size (Square Feet)	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Total (Including Other)
	£	£	£	£	£	£	£
Under 500	(255)	(4)	(2)	(47)	(113)	(1)	(326)
500-649	159,242	3,250	2,258	45,174	14,848	500	127,272
650-749	(146)	(5)		(39)	(14)	(2)	(209)
750-849	174,542	7,309	(1)	45,474	22,137	3,387	256,730
850-949	(136)	(14)	(1)	(23)	(17)	(2)	(197)
950-1,049	218,152	24,091	1,100	32,045	30,573	3,855	316,016
1,050-1,149	(83)	(44)	(2)	(29)	(49)	(2)	(491)
1,150-1,249	640,218	88,575	3,367	53,766	95,153	3,100	889,785
1,250-1,499	(831)	(140)	(11)	(95)	(150)	(2)	(1,242)
1,500 and over	1,743,797	300,424	23,382	196,670	322,850	4,000	2,619,132
Totals	(1,670)	(333)	(61)	(210)	(220)	(10)	(2,524)
1,050-1,149	3,750,961	776,433	132,982	463,782	511,468	21,414	5,703,130
1,150-1,249	(950)	(386)	(37)	(74)	(214)	(15)	(1,698)
1,250-1,499	2,343,967	967,177	91,272	186,826	561,287	39,610	4,247,409
1,500 and over	(484)	(241)	(38)	(37)	(150)	(10)	(974)
Totals	1,364,945	713,544	105,966	103,897	449,255	28,596	2,804,083
1,250-1,499	(312)	(177)	(27)	(20)	(115)	(22)	(680)
1,500 and over	1,041,607	609,801	81,999	63,404	399,834	76,359	2,301,077
Totals	(158)	(132)	(29)	(19)	(64)	(9)	(416)
Totals	737,572	560,130	99,443	75,880	279,496	48,566	1,828,969
Totals	(5,304)	(1,476)	(208)	(593)	(1,006)	(75)	(8,757)
Totals	12,175,003	4,050,934	541,769	1,266,918	2,686,901	229,387	21,193,603

NOTE.—The number of houses completed is shown in parentheses.

The table following is similar to the preceding one, except that the classification is by locality and size of outer wall.

Provincial District	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Total (Including Other)
	£	£	£	£	£	£	£
Auckland	(2,216)	(624)	(51)	(239)	(263)	(12)	(3,422)
Hawke's Bay	5,102,036	1,845,298	126,479	517,969	735,237	40,794	8,407,089
Taranaki	(259)	(1)	(1)	(22)	(152)	(1)	(442)
Wellington	475,630	1,150	658	50,534	420,680	3,729	965,634
Westland	(244)	(6)	(1)	(55)	(84)		(391)
Nelson	584,919	18,253	4,000	126,821	229,429		965,822
Canterbury	(1,123)	(84)	(10)	(160)	(300)	(16)	(1,713)
Otago	2,790,080	208,473	23,286	353,090	782,802	56,823	4,265,654
Totals, North Island	(3,842)	(715)	(63)	(476)	(799)	(29)	(5,968)

NOTE.—The number of houses completed is shown in parentheses.

Provincial District	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Total (Including Other)
	8,952,665	2,073,874	154,423	1,048,414	2,168,148	101,346	14,604,199
Marlborough	(63)	(18)		(7)	(4)	(4)	(100)
	142,328	52,772		15,426	8,000	13,560	243,554
Nelson	(247)	(5)		(15)	(99)	(1)	(368)
	526,660	11,329		33,358	244,837	3,000	821,584
Westland	(23)	(2)	(1)		(1)		(27)
	52,545	5,512	3,250		2,419		63,726
Canterbury	(825)	(354)	(55)	(57)	(22)	(21)	(1,353)
	1,896,748	890,703	147,188		106,399	62,986	57,794
Otago	(304)	(382)	(89)	(37)	(82)	(20)	(941)
	604,057	1,016,744	236,908		60,902	202,930	53,687
Totals, South Island	(1,462)	(761)	(145)	(117)	(207)	(46)	(2,789)
	3,222,338	1,977,060	387,346		218,504	518,753	128,041
Totals, New Zealand	(5,304)	(1,476)	(208)	(593)	(1,006)	(75)	(8,757)
	12,175,003	4,050,934	541,769		1,266,918	2,686,901	229,387
							21,193,603

NOTE.—The number of houses completed is shown in parentheses.

Owner-builders, 1951–52.—The figures quoted represent the activities of persons or firms defined as "owner-builders" who took out building permit during the year ended March 1952 of a value of £500 or more.

For the purposes of these statistics, "owner-builders" are persons or firms actually building their own houses, factories, or shops, etc., or having them built under their own directions without the services of a contractor.

The results of this survey, which was carried out in conjunction with that of regular builders, are summarized as follows.

Type of Construction	Commenced During Year		Completed During Year		Under Construction at End of Year	
	No.	Permit Value	No.	Permit Value	No.	Value of Work Done*
		£		£		£
Houses	2,493	5,033,470	1,121	2,102,651	1,372	1,325,835
Multiple units	6	14,750	4	7,250	2	6,000
Flats	5	13,690	3	5,390	2	5,800
Schools	3	3,808	2	2,608	1	800
Business premises	133	541,016	85	248,588	48	136,394
Other buildings	396	373,581	301	209,961	95	75,075
Alterations and additions	326	367,567	195	179,137	131	89,103
Totals		6,347,882		2,755,585		1,639,007

* This value is the owner's estimate of the work done during the year based on the permit value of the job.

It is emphasized again that the figures for owner-builders do not purport to show the total activity of owner-builders during the year, as no information is available regarding operations of owner-builders who were working on a permit taken out in the previous year or years. As mentioned above, the figures refer only to owner-builders who obtained permits during the year ended 31 March 1952 of a value of £500 or more.

A survey of owner-building was last taken for the year ended 31 March 1948, and a comparison is given for the two years 1947–48 and 1951–52 of the number of houses commenced and completed during the respective years.

—	Houses Commenced		Houses Completed	
	Number	Value	Number	Value
1947–48	1,636		797	
1951–52	2,493		1,122	

A further two tables on owner-builders' activities are now given, both relating to houses commenced during the year 1951–52.

The first table gives the number and permit value of houses commenced by owner-builders, in 1951–52, classified by size and material of outer wall.

Size (Square Feet)	Timber		Brick Veneer		Brick		Cement and Asbestos Sheet		Stucco		Ferro concrete		Total (Including Other)	
	No.	Permit Value	No.	Permit Value	No.	Permit Value	No.	Permit Value	No.	Permit Value	No.	Permit Value	No.	Permit Value
		£		£		£		£		£		£		£
Under 500	(92)		(11)		(69)		(1)		(1)		(1)		(168)	
	59,005		550		49,009		690		800		112,754			
500–649	(135)		(2)		(3)		(63)		(5)		(8)		(222)	
	125,586		2,200		2,600		59,029		5,690		9,200		211,990	
650–749	(81)						(40)		(3)		(1)		(127)	
	99,473						49,240		4,000		1,400		156,363	
750–849	(205)		(5)		(56)		(11)		(8)		(300)			
	285,620		9,800		84,455		20,945		11,402		438,177			
850–949	(143)		(3)		(9)		(55)		(12)		(9)		(242)	
	265,220		6,500		17,580		92,584		25,810		15,400		443,694	
950–1,049	(181)		(12)		(19)		(52)		(24)		(12)		(308)	
	377,178		25,650		40,980		102,177		48,315		24,000		635,000	
1,050–1,149	(122)		(18)		(30)		(37)		(32)		(27)		(285)	
	286,845		41,329		67,900		75,105		73,390		57,862		647,167	
1,150–1,249	(137)		(18)		(32)		(42)		(21)		(20)		(291)	
	329,210		46,822		79,160		98,177		50,920		43,700		704,239	
1,250–1,499	(130)		(26)		(45)		(51)		(28)		(36)		(337)	
	363,211		76,815		131,313		137,700		77,600		99,017		550,966	
1,500 and over	(88)		(13)		(24)		(21)		(16)		(32)		(213)	
	302,771		43,906		80,271		73,147		54,450		103,660		733,120	
Totals	(1,314)		(92)		(168)		(486)		(153)		(154)		(2,493)	
	2,494,119		243,222		430,154		820,623		361,810		366,441		5,033,470	

NOTE.—The number of houses is given in parentheses.

The second table shows similar information, in this case, however, classified by locality instead of size.

Provincial District	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Total (Including Other)
	£	£	£	£	£	£	£
Auckland	(789)	(60)	(83)	(196)	(51)	(33)	(1,302)
	1,483,770	121,322	233,495		320,571	110,275	86,219
Hawke's Bay	(42)	(1)	(1)	(36)	(23)	(1)	(106)
	85,783	2,500	5,013		72,766	61,070	3,200
Taranaki	(54)		(1)	(46)	(7)	(5)	(114)

NOTE.—The number of houses is given in parentheses.

Provincial District	Timber	Brick Veneer	Brick	Cement and Asbestos Sheet	Stucco	Ferro concrete	Total (Including Other)
	107,450		2,500		99,813	14,700	240,333
Wellington	(253)	(6)	(3)	(109)	(50)	(25)	(462)
	542,282	18,150	7,025		189,076	129,405	71,432
Totals, North Island	(1,138)	(73)	(88)	(387)	(131)	(64)	(1,984)
	2,219,285	201,972	248,033		682,226	315,450	173,221
Marlborough	(19)	(2)			(6)		(30)
	34,650	4,700			8,075		3,000
Nelson	(20)				(9)	(13)	(1)
	31,210				14,449	28,010	2,000
Westland	(20)		(2)			(1)	(23)
	35,050		5,300		1,500		41,850
Canterbury	(66)	(7)	(29)	(37)	(4)	(58)	(205)
	99,626	15,900	65,945		50,538	9,350	125,190
Otago	(51)	(10)	(49)	(46)	(5)	(30)	(206)
	74,298	20,650	110,876		63,835	9,000	63,030
Totals, South Island	(176)	(19)	(80)	(99)	(22)	(90)	(509)
	274,834	41,250	182,121		138,397	46,360	193,220
Totals, New Zealand	(1,314)	(92)	(168)	(486)	(153)	(154)	(2,493)
	2,494,119	243,222	430,154		820,623	361,810	366,441

NOTE.—The number of houses is given in parentheses.

Chapter 26. SECTION 26—ELECTRIC POWER AND GAS: GENERATION AND SUPPLY

Table of Contents

[26 A—ELECTRIC POWER: GENERATION AND SUPPLY](#)

[26 B—GAS: GENERATION AND SUPPLY](#)

26 A—ELECTRIC POWER: GENERATION AND SUPPLY

ELECTRIC power distributed for public use in New Zealand is generated principally by water power, most of the fuel plants in operation being maintained for standby purposes and to meet peak loads. During the year ended 31 March 1952 a total of 3,455,759,030 kWh. was generated by public utilities, of which 3,264,676,361 kWh. (94 per cent) was generated by water power, 169,933,142 kWh. by steam engines, and 21,149,527 kWh. by diesel engines. By far the major portion of this generation is undertaken by Government-owned plants, which, in the period under review, generated 3,039,697,838 kWh. by the use of water power, 166,175,488 kWh. by use of steam engines, and 6,020,990 kWh. by use of diesel engines. A further 6,543,014 kWh. was purchased by public supply authorities from generating stations operated by industrial establishments and fed into the supply system, making a total of 3,462,302,044 kWh. available for distribution.

Construction work on new generating stations was delayed by shortages of labour and materials both during the war and in the years following it, so that the quantity of power available was for a period of several years not sufficient to satisfy the growing demand. Various restrictions on the use of power were found necessary from 1941 until late in 1952, when the supply was increased by the addition of Maraetai to the chain of Waikato stations, and most of these restrictions were removed. Although it was not, until recently, sufficient to meet the full demand, the supply has, nevertheless, been much more than doubled since 1939, as can be seen from the following table of index numbers on base 1938–39 = 100, compiled from details of the daily average quantity of power retailed or supplied free of charge by public supply authorities.

Year Ended 31 March	North Island	South Island	New Zealand
1939	100	100	100
1940	116	114	115
1941	132	126	130
1942	140	136	139
1943	148	144	147
1944	154	155	155
1945	159	166	161
1946	165	178	169
1947	172	196	179
1948	177	198	183
1949	195	221	203
1950	206	242	216
1951	207	251	220
1952	236	268	246
1953	245	284	257

LEGISLATIVE BACKGROUND.—The earliest legislation concerning the supply of electricity for public use was contained in the Counties Act and Municipal Corporations Act of 1886, which authorized such local bodies to arrange for the supply of electric power in their areas. In 1896 the passing of the Electric Motive Power Act marked the beginning of the State's connection with hydro-electricity, by authorizing inquiries into the feasibility of using waterways to supply motive power on the goldfields, but did not actually commit the Government to anything more than inquiries. The Water Power Act 1903 carried matters further and reserved to the Crown, with the exception of certain rights already acquired, the sole right to generate electricity by water power. Finally, in 1910, the Aid to Water Power Works Act authorized the Government to borrow £500,000 for the purpose of hydro-electric development, and the first project was commenced at Lake Coleridge in the following year.

The provisions of these earlier Acts were consolidated in 1928 in the Public Works Act, placing all hydro-electric development under the control of the Public Works Department, and authorizing that Department, in certain circumstances, to delegate the right to use water power for the generation of electricity. Amended regulations concerning delegation of this right were published in 1934, and in 1945 the Electricity Act was passed, creating the State Hydro-Electric Department which under this Act took over the control of hydro-electric development previously exercised by the Public Works Department.

EARLY DEVELOPMENT.—In 1887 the first public electric supply plant to operate in New Zealand commenced supplying the gold-mining town of Reefton, in Westland (it is understood that a private plant had been installed by the Phoenix Quartz Mining Co., near Skippers, in 1885). The plant, which was driven by the waters of the hangarua River, consisted of a 20 kW. dynamo, and supplied power to the residents, presumably for domestic lighting. This was followed in 1888 by the installation of a generating plant in Wellington for street lighting, this consisting at the time of five hundred 20-candlepower lights. This plant was extended in 1892, and supply was then given to private consumers. Stratford, in Taranaki, was next, with a hydro-electric plant set up in 1898, and in 1902 both Christchurch and Dunedin were preparing plans and specifications for hydro-electric schemes. Auckland's first power station, a steam plant, commenced supply in 1908.

DEVELOPMENT OF WATER POWER: North Island.—The Waihi Gold Mining Company, Limited, constructed the first large hydro-electric scheme at Horahora, which supplied power for the operation of a quartz battery at Waikino and the mine at Waihi. Supply commenced in 1913. This station was purchased by the Government in 1919, and its capacity of 6,300 kW. was increased to 10,300 kW. in 1925, work being commenced on the Arapuni Station (also on the Waikato River) at about the same time. These two stations were linked when Arapuni came into operation (with one unit) in 1929, but Arapuni was closed down between 1930 and 1932 as a result of damage caused by an earth movement. By 1946 Arapuni had eight units operating, while construction work was in progress at Karapiro (commenced 1940) and Maraetai (commenced 1945). Karapiro station came into operation in 1947–48 with three units, each of 30,000 kW., the Horahora station ceasing generation prior to its site being submerged by the newly-formed Karapiro lake. This artificial lake is 14 miles long and extends up river to Arapuni. Late in 1952 the Maraetai station was brought into operation with three units running at a capacity of 11,000 kW. each. Initially the units operated at half head of water, approximately 100 ft., while the spillway was completed and diversion tunnel plugged. As work progressed the head of water was increased in stages, and by the end of June 1953 the three machines were operating at nearly full head producing 108,000 kW. In January 1954 the fourth machine was commissioned, bringing the capacity up to 144,000 kW., and leaving only one unit to be completed in Maraetai station.

These three stations, Arapuni, Karapiro, and Maraetai, are the first ten stations envisaged for full development of the Waikato River. Much work has already been done at the next station, Whakamaru, preliminary work for construction has commenced on the site for Aitāmuri, and other stations are planned at Waipapa, Okakuri, Parariki, Araratia, and Huka Falls. The stations will make use of practically the whole fall of the Waikato River from Lake Taupo to Cambridge. This river constitutes the principal power source in the North Island, having, in its course of 200 miles from Lake Taupo, a total fall of 1,170 ft. and a final discharge of over 10,000 cusecs. The rate of flow from Lake Taupo is controlled by works constructed in 1941 to conserve the water previously lost in the heavy spring and summer run-off.

The Mangahao station, of 19,200 kW. capacity, was actually the first station constructed in the North Island by the Government. It is situated in the Tararua Ranges, and commenced supply to the surrounding area at the end of 1924.

After the Mangahao station was completed a commencement was made in 1926 on the development of the Waikaremoana scheme, which consists of three stations, Kaitawa, Tuai, and Piripaua. The first station completed, Tuai, commenced supply in 1929 with a capacity of 32,000 kW., increased in 1939 to 52,000 kW.; Piripaua station (40,000 kW.) was completed in 1943; and Kaitawa station (32,000 kW.) in 1948. The three stations are within a distance of five miles, and the power generated by each is collected and transmitted from Tuai, the centre station.

The Waikato, Mangahao, and Waikaremoana stations are linked and operate as one system. Connections also exist with all the larger non-Government generating stations (steam and hydro) and steam plants maintained by the Government. To transmit power for distribution from the new stations on the Waikato a 220,000 volt system is being added to the existing network of 110,000 and 50,000 volt transmission lines and interconnected substations. From Whakamaru collecting station, electricity is now transmitted over the first circuits to the new major substations at Otahuhu in the north and Burnymtore and Haywards in the south.

South Island.—The Lake Coleridge station was commenced in the year following the passing of the Aid to Water Power Works Act 1910 and completed in 1915. This was the first station wholly designed and constructed by the Government. Its initial capacity was 4,500 kW, but in 1930 this was increased to 34,500 kW. The next station, Waitaki, commenced in 1928, came into use in 1935, and is the largest station in the South Island, its capacity being 75,000 kW. This capacity is being increased by the addition of a further two units of 15,000 kW each. Further use of the Waitaki River at Black Jack's Point is envisaged, where a station of 320,000 kW capacity is planned. Control works were built at Lakes Pukaki and Tekapo, to ensure an adequate water supply to Waitaki station during the winter, and a single unit of 25,200 kW, incorporated in the control works at Lake Tekapo is in action. Another single unit, also of 25,200 kW., was installed in 1945 at Highbank to make use of the surplus water available in winter from the Rangitika irrigation race.

In 1936 the Government took over the Southland Electric Power Board's system, including the generating station at Lake Monowai, and in 1938 acquired from the Grey Electric Power Board the Arnold station at Kaimata.

Construction of the Cobb River station, with a capacity of 12,000 kW., was commenced by a private company, but the project was taken over and completed by the Government. Supply from this station, which is now being expanded in capacity to 32,000 kW., commenced in 1944.

The Roxburgh station now under construction on the Clutha River will ultimately have a capacity of 320,000 kW; investigation and access roading work is also being carried on at Lake Rotorua in connection with the proposed Braeburn scheme of about 30,000 kW capacity.

A grid system similar to that in the North Island was established in 1939, when the Lake Monowai, Arnold, Lake Coleridge, and Waitaki stations were linked. Work is now in progress on a link to connect Nelson and Marlborough with this network, which will then cover the whole South Island, and include Government standby plants and most local authority plants. A 220,000 volt line is being constructed from Roxburgh to a major substation at Inlington. This will eventually bring the power from Roxburgh, and the first section is required for power from the Waitaki extensions.

Government Hydro-electric Stations.—The following table covers all Government hydro-electric plants in operation or for which contracts for machinery have been let, and shows the installed capacity at 31 March 1953 and ultimate installed capacity, together with the static head.

Name of Station	Installed Capacity at 31 March 1953			Ultimate Installed Capacity			Static Head (Feet)
	Number of Units	kW.	kVA.	Number of Units	kW.	kVA.	
Arapani	8	157,800	180,000	8	157,800	180,000	177
Karapiro	3	90,000	100,000	3	90,000	100,000	100
Maratai	3	85,000	94,414	5	130,000	200,000	200
Whakamaru*				4	100,000	111,100	124
Atiamuri*				3	63,000*	70,200	82
Mangahao	5	19,200	24,000	5	19,200	24,000	895
Waikaremoana—							
Kaitawa	2	32,000	38,000	2	32,000	38,000	443
Tuaiti	3	52,000	62,200	3	52,000	62,200	676
Piripaua	2	40,000	44,400	2	40,000	44,400	370
Cobb River	4	12,000	15,000	6	32,000	37,220	1,876
Arnold	2	3,060	3,600	2	3,060	3,600	45
Lake Coleridge	9	34,500	40,640	9	34,500	40,640	493
Highbank	1	25,200	28,000	1	25,200	28,000	330
Waitaki	5	75,000	83,333	7	105,000	116,665	70
Lake Tekapo	1	25,200	28,000	1	25,200	28,000	80-105
Roxburgh*				8	320,000	355,555	150
Lake Monowai	3	6,000	7,050	3	6,000	7,050	154
* Under construction.							

HYDRO-ELECTRIC POWER IN USE.—The following table shows the hydro-electric horsepower actually developed in the various machinery inspection districts at 31 March in each of the years 1948 to 1952. The figures cover all hydro plants exceeding 1 horsepower, whether main or standby, with the exception of plant not exceeding 6 horsepower used exclusively for farming purposes.

District	1948	1949	1950	1951	1952
	Hp.	Hp.	Hp.	Hp.	Hp.
Auckland North	4,074	4,074	4,074	4,074	4,074
Auckland South	305,750	347,750	347,700	347,700	347,700
Gisborne	140,040	166,035	166,023	166,023	166,028
Hawke's Bay	14,465	14,465	14,465	14,465	14,465
Taranaki	1,592	1,592	1,682	1,682	1,682
Wellington North	32,020	32,020	32,020	32,020	32,020
Wellington	3,035	3,403	3,423	3,423	3,423
Marlborough	19,375	19,375	18,725	18,725	18,725
Nelson	9,270	9,799	9,811	9,811	9,511
Westland	95,754	95,754	95,754	95,754	95,754
Canterbury	128,744	152,414	152,414	152,414	152,804
Canterbury South	11,446	11,446	11,438	11,438	11,438
Otago	765,565	858,127	857,529	857,529	857,624
Totals					

Of the total of 857,624 hp., 855,291 hp. was for the purpose of electric supply, 1,000 hp. for paper mills, 750 hp. for freezing works, and the remaining 583 hp. for mining and other miscellaneous purposes.

The figures mentioned do not, of course, indicate the ultimate consumption of hydroelectric power in the industries specified, since by far the greatest proportion of the total horsepower used in industry would be drawn from the electric supply stations and not generated in separate plants.

GEO-THERMAL STEAM.—Investigations are being made at Wairakei into the possibility of using geo-thermal steam for the generation of electricity. Twenty-seven bores which are 4, 6, or 8 inches in diameter have been drilled to depths varying between 570 ft. and 3,200 ft. With closed bores well-head pressures vary between 430 and 100 lbs. per square inch. High pressure high-temperature valves are required to control the output from the bores. The quantity of steam discharged from the bores varies considerably, and a large quantity of water is ejected with the steam. The steam contains a trace of gas, mostly carbon dioxide, and in the water about three parts in a thousand are dissolved solids. From what is known there is nothing in the chemical content of the steam to prevent its use for power generation. Proposals are being prepared for initial development with the establishment of a generating station of at least 20,000 kilowatts capacity, and the Government has engaged the services of a consulting engineer to assist with the proposals.

ELECTRIC-POWER BOARDS.—The Counties Act and Municipal Corporations Act passed in 1896 empowered county authorities and municipal corporations to arrange for the supply of electricity in the areas under their control, and until 1918 no provision was made for the constitution of bodies to attend solely to electric supply matters. The authority given to counties was more limited than that given to municipalities, and as their districts were comparatively sparsely settled they were unable, for financial reasons, to provide the same electrical facilities as those enjoyed by the towns. It was estimated by the Public Works Department that in March 1919 about 90 per cent of the people using electricity lived in the cities and larger boroughs, while probably less than 1 per cent lived in country areas. To enable the country districts to be supplied with electricity it was evident that some other form of administration was necessary, and the Electric Power Boards Act 1918 was designed to cope with this problem. The Act permitted two or more districts to combine as an electric-power district, and to establish a Board for the purpose of dealing exclusively with electric supply matters within the new district. Electric Power Boards consist of members representing the constituent districts, and possess rating powers. Previous legislation was consolidated and amended in the Electric Power Boards Act 1925 and subsequent amendments.

While this development made power available to more people outside the towns, the supply to remote areas still presented difficulties because of the high cost of reticulation in comparison with the revenue from power sold. It was later agreed by the supply authorities that a council should be set up with power to make a levy of ½ per cent on the gross revenue of all supply authorities and Government owned electrical undertakings and to employ these funds in the form of subsidies to meet the cost of reticulation in remote areas. The Rural Electrical Reticulation Council was set up under the Electricity Act 1945, and up to 31 March 1953 had approved subsidies on 2,396 route-miles of line, to supply 4,243 consumers. At this date 1,600 miles of line were completed and 3,017 consumers connected. The total capital expenditure is estimated to be £1,473,100, and the annual subsidy approved amounts to £69,748.

The average capital cost of reticulation by Power Boards prior to the passing of the Act was £60 per consumer, this reticulation excluding sparsely populated areas in which unreasonably large guarantees would be required. The extension of supply to these sparsely populated areas, as approved by the Rural Electrical Reticulation Council, is now being carried out at an average cost of £303 per consumer.

An Act of 1930 established an Association of Electric Power Boards and other electric supply authorities under the title of the Electric Power Boards and Supply Authorities Association of New Zealand, this title being changed by the Statutes Amendment Act 1951 to the Electrical Supply Authorities Association of New Zealand. The licensed areas under the control of the Boards and other authorities on 31 March 1953 covered an area of approximately 82,800 square miles, with a population of 2,009,420 people, amounting to 98.6 per cent of the total population of New Zealand.

Of the forty-four Electric Power Boards in existence at 31 March 1952 one was not actively functioning, fifteen operated generating stations as well as distributing power, and the remaining twenty-eight distributed power purchased in bulk, mainly from Government stations. Only two Boards generated sufficient power to meet fully their entire needs; two others found it necessary to purchase small quantities; but the other eleven which operated generating stations purchased most of the power distributed by them.

REVIEW OF OPERATIONS: Government Establishments.—The following table gives details of the operations of Government establishments generating and distributing electricity during the years 1949-50, 1950-51, and 1951-52.

—	Year Ended 31 March			
	1950	1951	1952	
Establishments	No.	14	14	14
Persons engaged	No.	1,594	1,675	1,728
Salaries and wages paid	£	795,408	873,771	1,041,284
Consumers	No.	21,426	22,700	22,378
Prime movers—				
Hydro	b.h.p.	781,900	781,900	801,900
Thermo	b.h.p.	62,170	95,670	95,670
Totals	b.h.p.	844,070	877,570	897,570
Generators (capacity)—				
Main A.C.	kW.	546,760	546,760	571,960
	kVA.	626,223	626,223	654,223
Standby A.C.	kW.	42,750	64,910	64,910
	kVA.	53,226	84,426	80,926
Totals	kW.	589,510	611,670	636,870
Revenue—				
Sales of power—				
Retail	£	449,419	474,859	474,204
Bulk and interchange	£	3,519,349	3,767,673	4,092,659
Other	£	38,580	50,088	64,934
Total revenue	£	4,007,348	4,292,620	4,631,797
Expenditure—				
Power purchased (including interchange)	£	398,774	514,484	290,371
Generating costs	£	524,056	984,492	1,261,741
Transmission and distribution costs	£	476,945	494,486	591,996
Management and general	£	466,975	432,467	494,028
Capital charges	£	1,918,877	1,879,314	2,156,233
Total expenditure	£	3,785,627	4,305,243	4,794,369
Capital outlay—				
Total expenditure to date	£	51,272,005	59,987,604	69,888,783
Expenditure during year	£	6,289,610	8,715,599	9,850,487
Generation—				
Hydro	(000) kWh.	2,688,607	2,643,481	3,039,698
Steam engines	(000) kWh.	47,678	140,027	166,175
Diesel engines	(000) kWh.	1,187	11,371	6,021
Totals	(000) kWh.	2,737,472	2,794,879	3,211,894
Generation per head of mean population	kWh.	1,447	1,457	1,744
Retail sales	(000) kWh.	132,726	135,208	134,342

Electric Power Boards.—This table gives similar information concerning generation and distribution by Electric Power Boards.

—	Year Ended 31 March			
	1950	1951	1952	
Establishments	No.	43	43	43
Persons engaged	No.	1,983	2,122	2,233
Salaries and wages paid	£	926,098	1,059,761	1,299,494
Consumers	No.	335,688	351,670	370,731
Prime movers—				
Hydro	b.h.p.	18,776	18,776	20,026
Thermo	b.h.p.	5,957	5,957	5,627
Totals	b.h.p.	24,733	24,733	25,653
Generators (capacity)—				
Main A.C.	kW.	9,144	9,144	10,004
	kVA.	10,898	10,773	11,978
Standby D.C.	kW.	315	215	215
A.C.	kW.	7,301	7,401	7,111
	kVA.	9,172	9,272	8,932
Totals	kW.	16,760	16,760	17,330
Revenue—				
Sales of power—				
Retail	£	5,233,111	5,476,018	6,314,403
Bulk and interchange	£	284,659	332,167	297,580
Other (including rates)	£	115,413	120,928	199,524
Total revenue	£	5,633,183	5,929,113	6,811,507
Expenditure—				
Power purchased (including interchange)	£	2,536,182	2,679,876	2,979,454
Generating costs	£	35,464	59,440	58,046
Transmission and distribution costs	£	740,208	832,547	1,014,718
Management and general	£	556,149	634,801	734,191
Capital charges	£	1,328,338	1,373,559	1,465,919
Total expenditure	£	5,196,341	5,579,223	6,252,328

	Year Ended 31 March			
	1950	1951	1952	
	Capital outlay—			
Total expenditure to date	£ 22,458,688	24,349,078	26,384,822	
Expenditure during year	£ 1,621,967	1,890,457	2,027,521	
Generation—				
Hydro	(000) kWh.	59,278	59,128	67,287
Steam engines	(000) kWh.			
Diesel engines	(000) kWh.	826	3,792	2,670
Totals	(000) kWh.	60,104	62,920	69,957
Generation per head of mean population	kWh.	32	32	38
Retail sales	(000) kWh.	1,428,775	1,457,424	1,657,089

All Establishments.—The next table sets out the same information in respect of all establishments engaged in the generation and distribution of power. These consisted at 31 March 1952 of fourteen Government owned establishments, three limited liability companies, forty-three Electric Power Boards, ten City Councils, nineteen Borough Councils, four County Councils, and two Town Boards.

		Year Ended 31 March		
		1950	1951	1952
		Establishments	No.	96
Persons engaged	No.	4,754	4,970	5,107
Salaries and wages paid	£	2,259,905	2,520,235	2,992,533
Consumers	No.	554,640	576,409	599,584
Prime movers—				
Hydro	b.h.p.	858,121	858,217	879,647
Thermo	b.h.p.	116,310	114,485	114,155
Totals	b.h.p.	974,431	972,702	993,802
Generators (capacity)—				
Main D.C.	kW.	191	46	46
A.C.	kW.	589,855	589,855	616,035
Standby D.C.	kVA.	679,428	679,303	708,658
A.C.	kW.	1,496	1,225	1,225
Totals	kW.	87,774	84,218	83,928
Totals	kVA.	108,913	108,193	104,103
Totals	kW.	679,316	675,344	701,234
Revenue—				
Sales of power—				
Retail	£	8,431,221	8,751,267	9,882,707
Bulk and interchange	£	4,149,425	4,480,617	4,435,687
Other (including rates)	£	209,820	232,933	529,741
Total revenue	£	12,790,466	13,464,817	14,848,135
Expenditure—				
Power purchased (including interchange)	£	4,173,815	4,527,050	4,698,533
Generating costs	£	894,424	1,428,266	1,520,580
Transmission and distribution costs	£	1,693,240	1,811,884	2,145,131
Management and general	£	1,260,093	1,322,876	1,521,198
Capital charges	£	3,687,310	3,759,566	4,141,956
Total expenditure	£	11,708,882	12,849,642	14,027,398
Capital outlay—				
Total expenditure to date	£	83,303,494	94,299,003	107,177,432
Expenditure during year	£	8,548,827	10,995,695	12,620,511
Generation—				
Hydro	(000) kWh.	2,907,449	2,863,897	3,264,676
Steam engines	(000) kWh.	119,083	193,426	169,933
Diesel or petrol engines	(000) kWh.	3,738	27,699	21,150
Totals	(000) kWh.	3,030,270	3,085,022	3,455,759
Generation per head of mean population	kWh.	1,602	1,609	1,877
Retail sales	(000) kWh.	2,403,798	2,446,572	2,732,840

Employment.—The foregoing table includes only those employees whose salaries and wages are paid directly out of revenue from the sale of electric power. Further details concerning the number of these employees and the salaries and wages paid to them are given in the following table covering the year ended 31 March 1952.

	Persons Engaged			Salaries and Wages Paid		
	Males	Females	Totals	To Males	To Females	Totals
	No.	No.	£	£	£	£
Secretaries, managers, engineers	238	—	238	220,211	—	220,211
Clerical staff	944	511	1,455	536,099	163,888	699,987
Wage-earning employees	3,379	35	3,414	2,060,518	11,817	2,072,335
Totals	4,561	546	5,107	2,816,828	175,705	2,992,533

Capital Outlay.—The following figures of capital expenditure during 1951–52, and of capital outlay to 31 March 1952, include capital invested in trading departments and in other activities.

Class of Expenditure	Expenditure During Year Ended 31 March 1952	Total Capital Outlay to 31 March 1952
Land in connection with power house	£	1,141,374
Headworks, pipe lines, etc.	£	1,282,076
Power house buildings, cottages, etc.	£	656,157
Generating plant	£	172,565
Special standby plant	£	3,460
Main transmission line and main substations	£	3,744,431
Distribution system, substations, land, cottages, etc.	£	1,526,421
Public (street) lighting	£	35,115
Office and store buildings, workshops, garages, houses, and service buildings	£	361,859
Loose tools, meters, instruments, furniture, trucks, motor cars, equipment, and stocks	£	545,319
Interest during construction	£	707,150

Class of Expenditure	Expenditure During Year Ended 31 March 1952	Total Capital Outlay to 31 March 1952
Loan conversion premiums	£	Cr. 420
Miscellaneous (work under construction, cost of raising loans, law costs, etc., and other capital expenditure)	£	3,759,940
Total capital outlay	£	12,620,511
Capital cash on hand and investments of capital	£	106,960,208
Capital funds used to finance advances to consumers and trading departments	£	276,443
Total capital assets	£	107,368,139

Additions to the capital value of all electrical systems during 1951–52 totalled approximately £12,859,000, while deductions—i.e., sales and amounts written off—amounted to approximately £238,000. The previous table shows for each item the net expenditure only during the year.

Of the total capital additions of £12,859,000 during 1951–52, £9,964,000 was contributed by the Government, £2,076,000 by Electric Power Boards, £807,000 by other local authorities, and £12,000 by companies. The chief items of Government expenditure were: major works under construction, £3,779,000; other additions to generation system, £1,756,000; transmission system, £3,453,000; distribution system, £112,000.

Local-authority expenditure during 1951–52 included £235,000 on generation systems, £331,000 on transmission systems, and £1,478,000 on distribution systems.

Capital Receipts.—The various sources for the capital expenditure shown in the previous table are summarized in the following table.

Total loans raised—	£	£
Loan liability at 31 March 1952	78,885,826	
Reserve created by loan repayments to date	16,641,599	
		95,527,425
Appropriations from revenue		11,410,973
Other capital reserves—i.e., capital profits and accretions		33,277
Temporary advances, capital creditors, etc.		396,464
Total capital receipts		£107,368,139

Where assets have been scrapped or written down, and the capital expenditure thereby reduced, corresponding amounts have been written off the appropriate capital reserves—i.e., reserves created by loan repayments and the capital expenditure out of revenue.

General Balance Sheet.—The following table summarizes the general assets and liabilities—i.e., capital items are excluded—as at 31 March 1952, in addition to setting out the reserves and invested funds.

Liabilities	£	Assets	£
Sundry creditors	3,193,241	Trading department assets, stocks, etc.	4,507,082
Advances from capital for trading departments, etc.	155,618	Cash, debtors, and other current assets	5,282,825
Reserves—	£	Invested reserve funds—	£
Sinking fund reserve	2,151,989	Sinking funds	1,861,471
Depreciation reserve	5,011,983	Depreciation funds	1,538,812
Renewal fund reserve	1,428,246	Renewal funds	1,292,251
General reserve	1,129,107	Other reserve funds	1,044,499
Other reserves	425,635		5,737,033
	10,146,960		
Credit balance, net revenue accounts	2,031,121		
Total	£15,526,940	Total	£15,526,940

Power Plant.—Particulars relating to the power plant in use during the year ended 31 March 1952 are set out hereunder.

Source of Power	Main Plant		Standby Plant		Totals	
	No.	b.h.p.	No.	b.h.p.	No.	b.h.p.
Steam engines	86	18	86,044	18	86,044	
Water turbines	87	866,609	29	13,038	116,879,647	
Oil engines	6	726	35	27,385	41	28,111

Power.—The following table sets out the number of units generated and their disposal, the second and third columns comprising power sold in bulk by one authority (in most cases the State Hydro Electric Department) and purchased by another (e.g., an Electric Power Board). The excess of bulk purchases over bulk sales represents the surplus generation of certain freezing works, collieries, etc., which is bought in by supply authorities, usually through the State Hydro Electric Department. This supply, generated by other than public supply authorities, finds no place in either of the first two columns of the table.

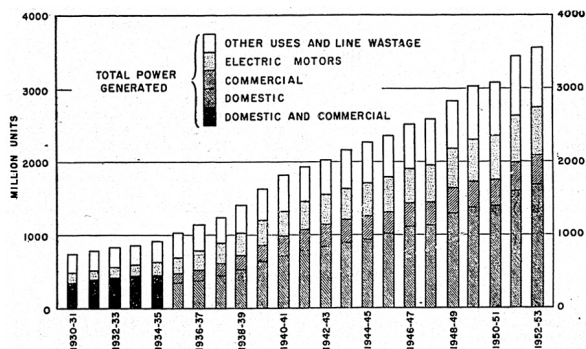
Year Ended 31 March	Kilowatt-hours					
	Generated	Sold in Bulk	Purchased in Bulk	Net Totals	Sold (Retail)	Lost in Transmission, etc.*
	Thousand kWh.					
1948	2,589,620	2,284,105	2,293,867	2,599,382	2,035,711	563,671
1949	2,834,155	2,541,558	2,551,808	2,844,405	2,277,947	566,458
1950	3,030,270	2,621,421	2,626,922	3,035,771	2,403,798	631,973
1951	3,085,022	2,691,366	2,703,040	3,096,696	2,446,572	650,124
1952	3,455,759	3,020,856	3,027,399	3,462,302	2,732,840	729,462

* Includes power supplied free of charge amounting to 29,651 thousand kWh. in 1951–52.

Analysis of Units Retailed.—The following table gives a classification of power retailled according to the various purposes for which it was sold. In this table “Domestic” includes domestic water-heating units, and “Commercial” both commercial and dairy water-heating units.

Year Ended 31 March	Sales (Kilowatt-hours)						
	Domestic	Commercial and Industrial	Street Lighting	Tramways	Electric Railways	Other Purposes	Total
	Thousand kWh.						
1948	1,140,878	811,826	11,164	49,425	15,996	6,422	2,035,711
1949	1,306,517	885,633	13,147	49,467	16,103	7,080	2,277,947
1950	1,376,138	939,169	14,253	49,719	16,648	7,871	2,403,798
1951	1,398,342	961,899	13,994	48,035	16,596	7,706	2,446,572
1952	1,611,834	1,037,229	15,291	45,266	16,485	6,735	2,732,840

The following diagram portrays the growth in the use of electric power since 1930–31, and shows also the principal purposes for which it was employed.



Revenue.—Revenue is derived chiefly from the sale of power, and in 1951-52 this source was responsible for 97 per cent of the total. The following table sets out the revenue of all stations for the years 1947-48 to 1951-52.

Year Ended 31 March	Sale of Power (Retail)	Profits, Sale of Apparatus	Miscellaneous	Interest	Rates	Totals*
	£	£	£	£	£	£
1948	7,031,505	68,301	89,565	11,224	3,361	7,203,956
1949	7,873,703	84,035	113,606	9,097	3,662	8,084,103
1950	8,431,221	76,812	120,331	9,677	3,000	8,641,041
1951	8,751,267	85,620	131,149	13,271	2,893	8,984,200
1952	9,882,707	76,996	219,672	15,519	1,846	10,196,740

* Excluding revenue from interchange of power.

Expenditure.—Of the total expenditure of £9,361,577 (excluding cost of interchange of power in bulk) recorded in the year ended 31 March 1952, 60.4 per cent represented overhead costs (comprising management expenses and capital charges), while operating expenses or prime costs stood at 39.6 per cent.

Power may be sold more than once in bulk before reaching the retailing authority, and in these tables the revenue from such interchange of power between authorities is set off against the cost, the net figure for cost of power purchased representing the cost to the industry of purchases from outside sources. In this connection mention may be made of certain contracts existing between the Government and some local authorities, whereby the latter are required to maintain their standby plants and to operate them, whenever called upon, to supplement the State hydro-electric supply. The units so generated, often by fuel plants, are purchased by the Government and resold, in most cases to the generating authority, for distribution.

The table following gives an analysis of expenditure.

Item	Year Ended 31 March			
	1949	1950	1951	1952
<i>Operating Expenditure</i>				
	£	£	£	£
Cost of power purchased*	52,533	24,439	79,593	32,712
Cost of generation	279,721	336,144	425,326	396,110
Fuel	458,775	396,775	821,741	1,023,847
Stores	2,276	1,796	9,513	2,290
Repairs	33,424	71,331	94,570	25,584
Standby plant	127,901	88,378	77,137	72,749
Cost of transmission	379,692	403,742	457,565	614,334
Cost of distribution	1,152,718	1,253,976	1,314,704	1,486,669
Public (street) lighting	31,649	35,522	38,756	44,128
Totals	2,518,689	2,612,103	3,318,905	3,698,423
<i>Miscellaneous Expenditure</i>				
	£	£	£	£
Cost of management	962,593	1,125,878	1,172,351	1,357,552
Insurance	46,505	47,989	55,238	58,109
Losses from trading	1,881	3,275	8,312	3,439
Other expenditure	77,760	82,451	87,811	102,098
Totals	1,088,739	1,260,093	1,323,712	1,521,198
<i>Capital Charges</i>				
	£	£	£	£
Interest	1,653,071	1,699,174	1,761,679	1,974,226
Sinking fund	366,342	382,044	734,809	746,493
Renewals	127,740	162,110	187,904	220,617
Depreciation	553,399	521,848	580,446	627,901
Loan repayment	775,421	920,885	494,686	572,361
Exchange	782	1,249	42	358
Totals	3,476,755	3,687,310	3,759,566	4,141,956
Grand totals	7,084,183	7,559,506	8,402,183	9,361,577

* Does not include the interchange of power between supply authorities.

The distribution of the expenditure per unit sold retail is given hereunder.

—	Year Ended 31 March			
	1949	1950	1951	1952
	d.	d.	d.	d.
Operating expenses	0.265	0.261	0.325	0.325
Miscellaneous expenses	0.115	0.126	0.130	0.133
Capital charges	0.366	0.368	0.369	0.364

—	Year Ended 31 March			
	1949	1950	1951	1952
Totals	0.746	0.755	0.824	0.822

26 B—GAS: GENERATION AND SUPPLY

HISTORY AND DEVELOPMENT.—The gas industry was amongst the first of industrial enterprises founded in New Zealand, and the earliest statistical records of industry showed that in 1867 there were already three gasworks in operation. These had been supplying gas for several years to the citizens of Auckland, Christchurch, and Dunedin, and in 1869 a further works commenced at Wellington. The first gasworks was erected in the year 1862 at Auckland when the European population of that town was about 25,000, and the total European population of New Zealand was only some 100,000 persons; the Christchurch and Dunedin works commenced supply in 1863, so that with the addition of the Wellington establishment there was in 1869 a gasworks in each of the four main centres. Subsequent growth of the industry was rapid, and the statistics for the year 1916 record that there were in that year 56 establishments engaged in generation and supply of gas to the public. This was the peak year so far as the number of establishments is concerned and growth to this point can be traced in the following table, which shows the approximate date on which each new works commenced operations.

NUMBER OF NEW GASWORKS ESTABLISHED

Period	Number
1860-69	5
1870-79	15
1880-89	3
1890-99	5
1900-09	17
1910-16	11
Total	56

Since this date the number of works in use has declined steadily, although the output of gas actually increased for the next thirty years and a much larger number of consumers is supplied now than in the year 1916. Plants in the larger towns and cities have been able to carry on successfully, but the works serving smaller towns have found it increasingly hard to meet competition with electricity and rising costs, so much so that a number have either sold out or closed down, leaving forty-one works still operating in 1953.

Electricity first came into general use for lighting; it gradually supplanted gas for this purpose from 1919 onwards, and, as new appliances were introduced, continued successfully to compete with gas in heating and cooking. This drift away from gas was arrested by the shortages of electricity caused by the disruption of hydro-electric construction during and after the Second World War, and the consequent restrictions on the installation of new electrical appliances or the use of power in appliances already installed. Unfortunately, conditions created by the war also rendered it impossible for the gas industry to supply enough gas to compensate for this shortage, or even to maintain the normal supply. Labour was short, coal supplies uncertain, and plant was losing efficiency because necessary equipment could not be imported for maintenance and renewal work, so that gas was also rationed at times, or completely shut off. A further set-back was experienced in 1951, when as a result of industrial disturbances coal supplies ceased, or only inferior coal, unsuitable for gas-making, was obtainable for a period of several months.

As a part of the general stabilization policy during the war, the Government instituted a system of subsidies to gasworks to enable them to meet rising costs without unduly increasing the price of gas to the consumer. These subsidies were paid from 1943 onwards to individual works as required, each case being considered separately. Subsidies paid between 1943 and 1950 amounted to £393,965, this total being spread over the years as shown below.

Year	Value of Subsidy
	£
1943-44	7,000
1944-45	37,151
1945-46	70,517
1946-47	77,417
1947-48	90,081
1948-49	87,114
1949-50	24,685

Further amounts were paid indirectly by way of subsidies on gas-coal production and sea freights, but such amounts in relation to this industry cannot be ascertained.

All these subsidies were withdrawn in 1950, the price of gas to consumers being raised to meet the additional cost of gas-making consequent on this withdrawal. Further increases in operating costs, wages, and coal prices in 1951 led to a restoration of subsidies to the gas industry in the form of a subsidy to all gasworks of 2s. per thousand cubic feet of gas generated. Financial assistance in the form of loans was also offered to works for the purpose of carrying out work necessary to restore the efficiency of gas-making and storage plant, and it was considered that at the end of two years the industry would be in a strong enough position for the subsidy to be withdrawn. This has not proved to be the case, and the subsidy is still in force. Increases in the price of gas in the four main centres during the period 1910-11 to 1952-53 are shown in the following table.

PRICE OF GAS PER THOUSAND CUBIC FEET

Year	Auckland		Wellington		Christ-church		Dunedin	
	s.	d.	s.	d.	s.	d.	s.	d.
1910-11	4	4	5	4	5	5	4	10
1929-30	7	0	6	11	7	0	6	3
1939-40	7	2	6	1	6	5	5	11
1949-50	8	10	6	10	6	9	6	2
1952-53	11	10	10	0	9	5	9	0

Prior to the year 1918-19 statistical information concerning gasworks was collected in conjunction with the population census at five-yearly intervals, but since that date information has been supplied annually. The very early returns naturally did not give much detailed information, but that which is available since 1867 is given in the following historical table which shows certain main items, at five-yearly intervals, up to the present time.

STATISTICAL SUMMARY, 1867-1953

Year	Works in Operation	Persons Engaged*	Value of Land and Buildings	Value of Machinery and Plant	Gas Produced
	No.	No.	£(000)	£(000)	(000,000)
1867	3				
1874	8				
1878	12	145			
1880-81	17	188	178	314	247
1885-86	20	344	208	448	403
1890-91	27	249	111	619	427
1895-96	27	293	121	646	532
1900-01	30	572	154	817	787
1905-06	38	954	268	1,107	1,275
1910-11	48	757	326	753	2,075
1915-16	56	598	351	1,031	2,776
1920-21	50	1,856	593	2,696	3,401
1925-26	48	2,053	554	3,720	3,870
1930-31	46	1,778	619	4,412	4,230
1935-36	46	1,779	654	3,715	3,885
1940-41	44	1,873	625	3,489	4,480
1945-46	44	1,830	512	3,484	5,241
1950-51	44	1,711	550	4,264	5,446
1952-53	41	1,642	590	4,401	5,282

* Excludes administrative and distributing staff up to 1915-16. A comparable total for 1920-21 was 966 persons.

LEGISLATIVE AUTHORITY.—Most of the gasworks which commenced operations in the early years of New Zealand's industrial history were granted individual charters, which defined their rights and obligations in relation to the general public. In 1882, however, an Act known as the Gas Companies and Consumers' Liability Act was passed which superseded these charters and defined this legal relationship between all gas companies and their customers, or intending customers. Local bodies were authorized to acquire or set up gasworks and sell gas by various Acts which were consolidated in the Municipal Corporations Act 1953, while the actual conditions governing the sale of gas, first stated in the 1882 Act, were consolidated in 1908 in the Gas Supply Act. This latter Act requires, amongst other things, that a gas undertaking should give, and continue to give, if required, a supply of gas to any premises situated within one hundred yards of a gas main or connected to a gas main, the gas supplier to bear the cost of not more than fifty feet of any service-pipe laid for this purpose outside the property of the consumer; authorizes the supplier to require security and fixes the manner in which security should be given; fixes the liability of an incoming tenant for arrears of gas-rent; and empowers gas companies to erect gasmeters and lay and service gas mains.

The Board of Trade (Gas) Regulations 1924 and amendments set standards of calorific value, purity, and pressure of gas which are required to be observed by scheduled gas undertakings.

The Electric Power Boards Act 1952 authorizes an Electric Power Board to acquire a gasworks and either operate it in conjunction with the supply of electricity or close it down, according to circumstances. This is designed to meet cases where it is no longer economical to operate the gasworks on its own but where it could perhaps be kept going as an adjunct of the electricity supply. The Power Board is relieved of the provision of the Gas Supply Act concerning the continued giving of gas, but consumers have a right of appeal to a Magistrate if the gasworks is closed down.

RECENT STATISTICS.—Statistics for the years 1950-51 to 1952-53 are set out in the table which follows, but certain limitations in the details given for the individual year 1951-52 should be noted. The statistics quoted for this year refer to the actual generation and supply of gas, and exclude all other activities (sale of appliances, etc.). These figures are therefore not comparable in all respects with those of other years, the value of assets, number of employees, salaries and wages paid, other expenses, total revenue, and total expenditure being understated in this year to the extent of such other activities.

		1950-51	1951-52	1952-53
Works	No.	44	42	41
Value of land and buildings	£	530,127	590,887	590,282
Value of plant (generating and distributing)	£	4,264,036	4,396,906	4,401,045
Persons engaged	No.	1,711	1,317	1,642
Salaries and wages paid	£	872,019	778,869	1,011,201
Coal used—				
Quantity	Tons	300,715	266,152	289,367
Cost	£	1,314,315	1,416,575	1,605,636
Cost of purifying and other materials	£	22,978	56,011	49,406
Other expenses (other than salaries and wages and materials)	£	581,989	388,857	650,918
Total expenditure	£	2,791,301	2,640,312	3,317,161
Total revenue	£	2,914,112	2,738,359	3,356,569
Consumers	No.	205,510	200,403	197,993
Gas generated	Cub. ft. (000)	5,446,337	4,830,471	5,281,577
Gas sold—				
Quantity	Cub. ft. (000)	4,577,243	4,007,282	4,327,149
Value	£	2,214,953	2,192,434	2,499,928
Average price of gas per thousand cubic feet		9s. 8d.	10s. 11d.	11s. 7d.

A further analysis of the 1952-53 statistics is given below, these being dissected by locality of gasworks (North and South Island) and character of organization. It will be seen that 71.5 per cent of the total quantity of gas was generated in the North Island and 28.5 per cent in the South Island, while proportions generated by registered companies and municipal authorities were 71.4 per cent and 28.6 per cent respectively.

Gasworks, 1952-53	Registered Companies			Municipal Authorities			Total
	North Island						
Works	No.	12	14	14	14	26	
Value of land and buildings	£	226,446*	138,858†	138,858†	138,858†	277,716	365,304
Value of machinery and plant	£	2,013,678*	914,615†	914,615†	914,615†	1,829,230	2,928,293
Capital additions during year—							
Land and buildings	£	9,840	491	491	491	10,331	
Machinery and plant	£	125,454	14,349	14,349	14,349	139,803	
Persons engaged—							
Males	No.	799	265	265	265	1,064	
Females	No.	47	8	8	8	55	
Totals	No.	846	273	273	273	1,119	
Salaries and wages paid—							
To males	£	493,912	171,754	171,754	171,754	665,666	
To females	£	16,885	2,407	2,407	2,407	19,292	
Totals	£	510,797	174,161	174,161	174,161	684,958	
Motive power—							
Engines in use	No.	171	105	105	105	276	
Total horse-power	H.p.	3,028	501	501	501	3,529	
Materials used—							
Coal	Tons	143,628	48,518	48,518	48,518	192,146	
	£	819,490	297,342	297,342	297,342	1,116,832	
Other materials	£	21,524	8,575	8,575	8,575	30,099	
Totals	£	841,014	305,917	305,917	305,917	1,146,931	
Products—							
Gas generated	Cub. ft. (000)	2,977	799	799	799	3,776	
Gas sold	Cub. ft. (000)	2,380	634	634	634	3,015	
	£	1,364,780	441,138	441,138	441,138	1,805,918	
Coke	Tons	38,801	13,030	13,030	13,030	51,831	
	£	238,245	89,007	89,007	89,007	317,252	
Tar	Gal.	1,054,377	386,853	386,853	386,853	1,441,230	
	£	109,417	27,262	27,262	27,262	136,679	
Other residuals	£	17,513	5,471	5,471	5,471	22,984	
Totals	£	1,719,955	562,878	562,878	562,878	2,282,833	
Total expenditure	£	1,699,258	610,442	610,442	610,442	2,309,700	
Total revenue	£	1,757,502	574,483	574,483	574,483	2,331,985	

* Depreciated values.

† Undepreciated. Depreciation funds amount to £35,260.

Gasworks, 1952-53	Registered Companies			Municipal Authorities			Total
	South Island						
Works	No.	10	5	5	5	15	
Value of land and buildings	£	108,014*	116,964†	116,964†	116,964†	224,978	
* Depreciated values.							
† Undepreciated. Depreciation funds amount to £289,694.							

Gasworks, 1952-53	Registered Companies	Municipal Authorities	Total	
Value of machinery and plant	£	478,927*	993,825†	1,472,752
Capital additions during year—				
Land and buildings	£	1,756	8,234	9,990
Machinery and plant	£	50,155	40,150	90,305
Persons engaged—				
Males	No.	259	230	489
Females	No.	26	8	34
Totals	No.	285	238	523
Salaries and wages paid—				
To males	£	175,101	140,331	315,432
To females	£	8,067	2,744	10,811
Totals	£	183,168	143,075	326,243
Motive power—				
Engines in use	No.	87	111	198
Total horse-power	H.p.	1,032	670	1,702
Materials used—				
Coal	Tons	54,550	42,671	97,221
	£	261,611	227,193	488,804
Other materials	£	14,285	5,022	19,307
Totals	£	275,896	232,215	508,111
Products—				
Gas generated	Cub. ft. (000)	794	712	1,506
Gas sold	Cub. ft. (000)	709	604	1,313
	£	359,041	334,969	694,010
Coke	Tons	21,745	14,957	36,702
	£	133,763	74,650	208,413
Tar	Gal.	839,485	374,422	1,213,907
	£	51,018	18,112	69,130
Other residuals	£	13,618	2,652	16,270
Totals	£	557,440	430,383	987,823
Total expenditure	£	552,909	454,552	1,007,461
Total revenue	£	574,096	450,488	1,024,584

* Depreciated values.

† Undepreciated. Depreciation funds amount to £289,694.

Chapter 27. SECTION 27—CONSUMPTION OF COMMODITIES

Table of Contents

STATISTICS of consumption cannot be compiled with absolute accuracy, owing to the impossibility of obtaining exact comparability in component statistics of production, exports, and imports. There are several deficiencies in the statistical data at present available, the most serious being occasioned by the lack of statistics illustrating the distribution among individuals of the annual flow of commodities entering into consumption. Nevertheless, a sufficient degree of comparability can normally be attained to permit of the compilation of statistics of consumption with a reasonable approach to accuracy.

VALUE OF GOODS AVAILABLE FOR USE.—Statistics of the value of production, of exports, and of imports have been compiled regularly for many years. From these statistics an estimate of the annual value of goods, including both capital and consumption goods, available for use in New Zealand can be made, the value of exports being deducted from that of production, and the value of imports added to the residuum. The result of this computation gives a close approach to the value of all goods available for use in the country.

Various additional factors have had to be taken into account in preparing estimates covering the war period and quoted in the tables. In some cases rather arbitrary figures have had to be accepted for adjustment purposes. The following descriptive notes under the respective headings will serve to indicate the scope of these estimates.

Production.—The series of value and volume of production figures as quoted in Section 19 of this Year-Book form the basis of the tables which follow. The figures relate to the production year, which, in most cases, approximates closely to the year ended 30 June.

Exports.—The official export figures (f.o.b.) for the years ended 30 June have been adjusted to exclude charges incurred between the stages of production and export.

Goods (normally exported) supplied under the reverse lend-lease procedure, shipments by the Armed Services, and Red Cross and food parcels have all been treated as additional exports in the tables which follow.

Adjustments have been made for changes in stocks awaiting shipment, so that the export figures quoted in this Section represent the segment of production in any year exported, or ultimately destined for export.

The volume indices have been adjusted to make allowance for the above-mentioned inclusions.

Imports.—The official import figures (Customs values) for the years ended 30 June, excluding ordnance, have been adjusted for the war period to take into account additional freight and insurance charges above the nominal 10 per cent allowed in the official figures of imports.

Further adjustments have been made for the lump-sum payments received from the United Kingdom Government as a set-off against the high level of import prices, and for the realization on certain war assets.

Unfortunately, detailed statistics of the volume of retail and wholesale merchandise stocks are not available, so that the figures illustrate goods available for use and not necessarily goods actually used during each of the years.

The following table gives the position in regard to value of goods, but care should be exercised in interpreting the table in view of the substantial upward trend in unit values that has taken place over the period covered by the table. In addition to the statistics for the last ten years, figures for the years 1928-29, 1932-33, and 1938-39 are given.

Year Ended 30 June	Produced in New Zealand						Available for Use in New Zealand	
	Total	Exported	All Goods Available for Use in New Zealand			Imported	Total	Per Head
			Total	Per Head	Per Head			
	VALUES							
	£(m.)	£(m.)	£(m.)	£	£(m.)	£(m.)	£	
1929	126.2	54.1	72.1	49.2	46.5	118.6	81.0	
1933	83.7	35.7	48.0	31.3	25.3	73.3	47.8	
1939	136.1	5.80	78.1	48.3	56.5	134.6	83.3	
1943	170.2	79.7	90.5	55.2	40.8	131.3	80.1	
1944	175.9	89.3	86.6	52.8	54.3	140.9	85.8	
1945	196.7	112.6	84.1	50.3	48.7	132.8	79.4	
1946	200.4	88.4	112.0	64.8	57.5	169.5	98.0	
1947	230.2	101.4	128.8	72.4	88.8	217.6	122.3	
1948	266.3	120.7	145.6	80.1	144.3	289.9	159.6	
1949	292.2	120.9	171.3	92.4	111.2	282.5	152.4	
1950	345.0	137.3	207.7	109.9	151.3	359.0	189.9	
1951	473.1	235.5	237.6	123.3	164.9	402.5	208.9	
1952	426.3	199.4	226.9	115.1	272.3	499.2	253.3	

Year Ended 30 June	Produced in New Zealand						Available for Use in New Zealand	
	Total	Exported	All Goods Available for Use in New Zealand		Imported	Total	Per Head	
			Total	Per Head				
VALUE INDEX NUMBERS 1938-39 (= 100)								
1929	93	97	90	99	82	87	96	
1933	61	64	60	63	45	54	56	
1939	100	100	100	100	100	100	100	
1943	125	137	116	114	72	98	96	
1944	129	154	111	109	96	105	103	
1945	145	194	108	104	86	99	95	
1946	147	152	143	134	102	126	118	
1947	169	175	165	150	157	162	147	
1948	196	208	186	166	255	215	192	
1949	215	208	219	191	197	210	183	
1950	253	237	266	228	268	267	228	
1951	348	406	304	255	292	299	251	
1952	313	344	291	238	482	371	304	

AGGREGATE VOLUME OF GOODS AVAILABLE FOR USE.—Index numbers of volume of total production, based in most cases on figures of actual physical production, and index numbers of volume of exports and of imports, from the basis on which figures indicating the volume of goods available for New Zealand use are estimated. Attention is drawn to the notes on adjustments, etc., applied under the various headings and explained under the preceding title. Quantitative figures of exports are readily available from the official statistics, and as the great bulk of the export trade is confined to a relatively small number of items it is comparatively simple matter to compile an index number of volume for years ending with the month of June. Prior to the year ended 30 June 1946 a similar position did not hold in the case of imports, as they are far more diversified in nature, and full detail was not available for other than calendar years. Index numbers of volume of imports for calendar years are compiled, and up to the year 1945-46 an average of the indices for two calendar years was used to approximate years ending with the month of June. Commencing with the year ended 30 June 1946 a special index number of volume of imports has been compiled. By the use of quantitative figures of production, exports, and imports, reasonably accurate figures of movements in volume may be ascertained, and figures arrived at indicating the volume of goods available for New Zealand use.

Index numbers of volume covering similar years and for similar headings to those given in the earlier table are given below.

INDEX NUMBERS OF VOLUME OF GOODS: BASE 1938-39 (= 100)

Year Ended 30 June	Produced in New Zealand						All Goods Available for Use in New Zealand	
	Total	Exported	Available for Use in New Zealand		Imported	Total	Per Head	
			Total	Per Head				
1929	77	74	79	88	86	82	91	
1933	83	96	73	77	50	64	67	
1939	100	100	100	100	100	100	100	
1943	109	116	104	103	58	85	84	
1944	108	132	90	89	66	80	79	
1945	114	156	82	80	63	74	72	
1946	112	111	113	105	66	93	87	
1947	118	113	121	110	86	106	96	
1948	123	115	129	115	115	123	110	
1949	129	121	134	117	103	121	105	
1950	137	118	150	128	122	138	118	
1951	141	115	160	134	128	147	123	
1952	143	126	156	128	179	165	136	

It should, perhaps, be emphasized that the table covers capital as well as consumer goods; consequently the headings "available for use in New Zealand" include not only commodities entering into current consumption, but also such items as additions to merchandise stocks, to factory plant and buildings, to farm capital stock, etc.

The low point, both in respect of total and per head volume of goods available for use, was recorded in 1931-32, the decreases from the 1928-29 levels amounting to 26 and 29 per cent respectively. The 1928-29 level of total volume of consumption was regained in 1935-36, while the per head level was regained in 1936-37.

In conjunction with the previous table, it is interesting to consider the proportions of New Zealand produced goods and of imported goods in the total quantum of goods entering into use. Over the period for which the break-up is available, locally produced goods supplied 63 per cent and imported goods 37 per cent of the total.

Comparisons in this respect for individual years are given hereunder.

Year	Locally Produced Per Cent	Imported Per Cent
1928-29	56	44
1929-30	56	44
1930-31	62	38
1931-32	65	35
1932-33	67	33
1933-34	66	34
1934-35	62	38
1935-36	59	41
1936-37	57	43
1937-38	56	44
1938-39	58	42
1939-40	63	37
1940-41	70	30
1941-42	73	27
1942-43	71	29
1943-44	65	35
1944-45	64	36
1945-46	70	30
1946-47	66	34
1947-48	61	39
1948-49	64	36
1949-50	63	37
1950-51	63	37
1951-52	55	45

While strict accuracy cannot be claimed for these figures—particularly in respect of single years—a definitely higher proportion of New Zealand produced goods in the total is observed from 1930-31 to 1934-35 and again from 1939-40 to 1950-51. The falling-off in the volume of imports during the depression years was considerably greater than that for locally produced goods consumed in New Zealand. The policy of import control introduced in December 1938, and the dictates of a war economy, were responsible for the relatively low proportion of imported goods to total consumption evident from 1939-40 onwards.

CONSUMPTION OF NEW ZEALAND PRODUCE.—While the statistical data discussed in the foregoing pages afford an indication of movements in the aggregate value and volume of consumption, considerable interest attaches to the statistics for individual commodities of importance. Estimates of the consumption of a selection of individual commodities are given in the following paragraphs. No indication of the distribution of consumption of

these commodities among individual classes of consumers is available; but with the full employment and wide distribution of wealth that prevails in New Zealand it is beyond question that the *per capita* rates of consumption of various commodities shown later are truly representative of general living standards.

Figures showing, for some of the more important food products in which an export trade is maintained, the respective proportions of the total production for the three-year period 1950-51 to 1952-53 are as follows.

	Consumed in New Zealand Per Cent	Exported Per Cent.
Butter	191	80.9
Cheese	4.9	95.1
Beef	58.7	41.3
Mutton	42.7	57.3
Lamb	4.9	95.1
Pig-meat	60.6	39.4

Local (New Zealand) consumption of all meats combined, during this same three-year period, amounted to 35 per cent of total meat production.

PER CAPUT QUANTITIES OF PRINCIPAL FOODSTUFFS AVAILABLE FOR CONSUMPTION.—Estimates of annual consumption for the civilian population have been made for the principal items of foodstuffs for a pre-war period and for recent years. Basic statistical data are rather scanty in the case of some items, particularly fresh vegetables, and the estimates may be subject to correction as further information becomes available.

Dairy Produce.—Measured in terms of butterfat content, it is estimated that 23.0 per cent of total dairy production in 1952-53 was used for local human consumption. A further 3.5 per cent was used locally for calves, pigs, etc., leaving 73.5 per cent for export in the form of butter, cheese, and processed milk. Estimated figures of annual civilian consumption levels for individual items of dairy produce, pre-war and for recent periods, are given below.

	Pre-war	1950-51	1951-52	1952-53
Whole milk (pint)	220.0	334.0	337.0	333.8
Cream (pint)	6.9	4.3	4.1	4.2
Ice-cream (pint)	3.2	13.5	12.6	12.8
Cheese (lb.)	4.5	5.9	5.7	6.0
Butter (lb.)	41.0	38.9	42.7	44.0
Processed milk (lb.)	4.7	10.4	10.3	10.9

In the following comparison of butter and cheese consumption in various countries the figures for countries other than New Zealand have been taken from the 1953 publication "Dairy Produce," issued by the Intelligence Branch of the Commonwealth Economic Committee. The pre-war figures are mostly the average of the years 1934 to 1938; for New Zealand they relate to the immediate pre-war period.

BUTTER AND CHEESE CONSUMPTION PER CAPUT

—	Butter		Cheese	
	Pre-war	1952	Pre-war	1952
	lb.	lb.	lb.	lb.
United Kingdom	24.1	10.9	8.9	7.7
Sweden	24.1	25.8	12.8	18.3
Switzerland	15.0	13.4	17.0	17.2
Denmark	18.3	17.4	14.1	12.6
Netherlands	12.3	5.5	17.0	13.0
United States of America	16.4	8.7	5.8	7.7
Canada	31.9	22.1	3.6	5.9
Republic of Ireland	32.2	41.2	0.8	1.2
Australia	32.6	29.5	4.3	6.0
New Zealand	41.0	44.0	4.5	6.0

In considering New Zealand's relatively high consumption of butter it should be noted that the use of margarine as a spread, common in some countries, is unknown in New Zealand.

Meats.—In estimating the average annual civilian consumption of meats an allowance has been made in the case of each item for killings on farms and for condemnations. The consumption levels for the various items are as follows, the weights in each case being on a bone-in dressed carcass basis.

	Pre-war	1950-51	1951-52	1952-53
Beef (lb.)	112.0	115.0	109.9	102.3
Veal (lb.)	7.5	5.7	5.8	5.1
Mutton (lb.)	60.0	64.0	66.2	66.0
Lamb (lb.)	6.5	11.1	10.5	9.7
Pork, including chopper meat (lb.)	9.0	11.3	10.5	8.3
Ham and bacon (lb.)	17.0	20.6	16.8	14.1
Edible offal (lb.)	9.0	9.8	9.6	9.0

Fresh Vegetables and Fruits.—Estimates under this heading have been made, particularly in the case of vegetables, with considerable difficulty owing to a number of factors, not the least being the fact that domestic garden production must of necessity be taken into account. Where there is no evidence as to changes in consumption habits, the estimates for both pre-war and the later years shown have been treated as on an equality. Consumption levels for individual items are estimated as follows.

	Pre-war	1951	1952
Potatoes (lb.)	130.0	97.0	84.0
Kumaras (lb.)	7.5	7.5	7.5
Cabbages and greens (lb.)	100.0	100.0	100.0
Carrots (lb.)	30.0	30.0	30.0
Tomatoes (lb.)	20.0	20.0	20.0
Apples (lb.)	44.0	33.9	33.6
Pears and quinces (lb.)	6.0	10.6	7.5
Stone fruits (lb.)	12.5	18.6	14.4
Citrus fruits (lb.)	23.0	20.4	17.5
Bananas (lb.)	21.0	10.2	6.7
Pineapples (lb.)	1.0	0.5	0.5

Canned Fruit and Vegetables.—Owing to the lack of satisfactory details for earlier years, the pre-war consumption of these items is shown as the average of 1938 and 1939.

	Pre-war	1951	1952
Canned fruit (lb.)	10.5	15.7	10.5
Canned vegetables (lb.)	1.6	8.5	8.1

Before the war approximately 75 to 80 per cent of canned fruit requirements were imported and consisted mainly of pineapples, peaches, and apricots. The war considerably upset this trade, but there has been a marked recovery since 1947. There has been little progress in the local canning of fruit, and consumption is still below the pre-war level.

The consumption of canned vegetables, on the other hand, owing in some measure to the striking wartime expansion of the industry, is now at a very high level. Before the war there were some imports of peas and beans, but most requirements are now met from local production. Green peas account for nearly half the production, but there has also been considerable development in asparagus, baked beans, and tomato puree, some of the latter being for export.

Other Foodstuffs.—Estimated annual civilian consumption levels for other items of foodstuffs are given hereunder.

	Pre-war	1950-51	1951-52
Poultry (lb.)	3.9	6.0	6.0
Fresh fish—edible portion (lb.)	11.0	11.7	11.5
Shell fish—edible portion (lb.)	0.9	0.9	0.9
Eggs (dozen)	20.0	17.0	17.0
Honey (lb.)	2.1	4.2	4.0
Refined sugar (lb.)	106.0	85.0	94.0
Dried peas and beans (lb.)	1.6	4.2	4.2
Flour, wheaten (lb.)	185.0	172.8	180.2
Cornflour (lb.)	2.4	3.1	2.6
Oatmeal, oaten products (lb.)	10.5	6.9	6.9
Rice (lb.)	5.3	2.8	2.9
Tea (lb.)	6.8	7.5	7.5
Cocoa Ob.)	10	0.9	0.9

Beer, Wine, Spirits, and Tobacco.—As the consumption of these items is particularly susceptible to economic conditions, the depression and immediate post-depression years have been avoided in ascertaining the pre-war consumption. The figures for wine are probably not as accurate as those relating to the other items, for the reason that production figures only are available for locally made wine which naturally (for maturity purposes) is not usually placed on the market until some years after production. Wine production has been steadily increasing during the last decade, the 1952 figure being more than treble the immediate pre-war output, and accounting for over two-thirds of total local consumption.

	Pre-war	1951	1952
Beer (gallons)	10.80	18.80	19.30
Grape wine (gallons)	0.20	0.44	0.42
Spirits (proof gallons)	0.28	0.45	0.49
Tobacco (lb.)	3.90	5.03	5.34

In interpreting the big increase in beer consumption it should not be overlooked that as a war measure the alcoholic strength of beer was, on 11 May 1942, reduced by about one-quarter. Although this restriction was removed at the beginning of 1949 the additional duty on beer exceeding the reduced strength has had much the same effect.

Comparison With Other Countries.—In considering the question of supplies of foodstuffs in various countries the food balance sheets prepared at the instigation of the Food and Agriculture Organization present information on a comparable basis. The table which follows presents in summarized form statistics appearing in the Statistical Yearbook of the United Nations. The statistics in most cases relate to the year 1950-51, while pre-war figures are quoted in each case in parentheses. The data quoted are expressed in kilograms per person per year, except that for each country a total figure is given showing calories per person per day, and the percentage thereof derived from livestock products (meat, poultry, eggs, fish, milk, butter, cheese, slaughter fats, marine oils). The total calories figure includes also foodstuffs not specifically mentioned in the table.

A table of this nature necessarily includes data of an approximate nature, but is of value as an overall picture of food consumption and availability in the various countries.

Country	Cereals	Potatoes, etc.	Sugar	Pulses	Meat	Milk	Fats and Oils	Calories
Number Per Day	Percentage of Live-stock Origin							
Kilograms Per Person Per Year								
Union of South Africa	(156)	(16)	(23)	(2)	(38)	(76)	(3)	(2,300)
	157	16	44	3	41	77	5	2,640
Canada	(93)	(90)	(43)	(4)	(62)	(221)	(19)	(3,070)
	78	115	48	4	70	237	20	3,240
United States of America	(90)	(64)	(44)	(4)	(64)	(204)	(20)	(3,150)
	77	50	42	4	75	253	20	3,210
Argentina	(106)	(66)	(27)	(2)	(107)	(163)	(9)	(2,730)
	124	87	35	2	114	165	16	3,190
India	(143)	(8)	(13)	(18)	(3)	(65)	(3)	(1,970)
	111	6	9	17	2	43	3	1,570
Japan	(162)	(63)	(14)	(7)	(4)	(4)	(2)	(2,180)
	154	70	4	5	2	6	1	2,100
Denmark	(94)	(120)	(50)	(***)	(75)	(195)	(27)	(3,420)
	98	150	38	1	56	204	21	3,130
France	(124)	(143)	(24)	(4)	(53)	(150)	(14)	(2,830)
	118	125	27	3	56	156	13	2,790
Netherlands	(107)	(116)	(29)	(3)	(38)	(220)	(20)	(2,920)
	101	141	36	2	32	205	26	3,090
Sweden	(95)	(122)	(44)	(2)	(49)	(302)	(18)	(3,120)
	92	116	46	2	51	315	21	3,240
United Kingdom	(94)	(79)	(46)	(3)	(64)	(152)	(20)	(3,120)
	100	110	34	3	49	219	22	3,100
Australia	(101)	(49)	(53)	(1)	(120)	(164)	(16)	(3,300)
	99	45	55	2	110	190	16	3,280
New Zealand	(87)	(50)	(48)	(2)	(109)	(166)	(17)	(3,260)
	88	54	51	2	106	270	18	3,450

NOTE.—Figures in parentheses refer to pre-war years.

Wartime Restrictions on Consumption.—Shortages or prospective shortages of imported goods, brought about or accentuated by the war, created the need for a controlled distribution. The rationing of such domestic produce as meat and butter was necessary to cope with the heavy demands of the Armed Forces, both British and Allied, and at the same time to maintain supplies to the United Kingdom.

To ensure an equitable distribution of the more essential commodities, rationing by coupons was introduced for the following items; tea, sugar, butter, meat, household linen, blankets, clothing, and footwear. Eggs were subject to a preference rationing to children under five years of age, expectant mothers, and invalids suffering from specific ailments. Baby wool was reserved for, and rationed to, expectant mothers.

During 1948 rationing was lifted from the following important commodities: tea, 31 May; sugar for domestic use, 27 August; sugar for manufacturing purposes, 29 November; and meat, 27 September. In 1950 all other commodities subject to rationing were freed; cream on 22 February, butter on 4 June, and motor spirits on 31 May. As from 7 June 1950 the operation of the egg priority scheme was left to retailers.

Details of the rationing provisions and other restrictions which applied to the principal individual commodities are quoted in the 1950 issue of the Year-Book (pages 828-30).

Chapter 28. SECTION 28—DISTRIBUTION

Table of Contents

INTRODUCTORY.—For many years there has been a lack of statistics, other than of employment, relating to the distributive sector of the New Zealand economy. The distributive sector may in this case be defined as that activity relating to the distribution of goods from the source of production or supply, to the ultimate consumer, together with the provision of personal and other services, excluding transport.

The possibility and desirability of remedying this deficiency by conducting a Census of Distribution was under consideration as far back as 1938, and some attempts, mostly abortive, have been made over the years by the Census and Statistics Department to collect statistics of retail trading on a purely voluntary basis. The value of statistics of retail trading has been exemplified in a sample survey successfully carried out by the Reserve Bank of New Zealand, but limited in coverage to Wellington and the Hutt Valley.

Recommendations and requests from the International Chamber of Commerce, in collaboration with the United Nations Organization, and interest manifested by trade associations and Government Departments within New Zealand, prompted the Government in early 1953 to authorize by regulation the New Zealand Census of Distribution, 1953.

Census of Distribution: Form of Inquiry.—The form of inquiry, etc., for the census was decided upon following discussions and negotiations with various interested bodies, such as the Retailers' Federation, the Associated Chambers of Commerce, etc., and a study of procedures and methods adopted in other countries which had previously conducted similar inquiries.

Index of Establishments.—A register or index of establishments was compiled from various sources. The main index was obtained by utilizing the services of Post Office officials who, by combining the existing lists of boxholders and other records with cards completed by officers making a special coverage of each postal route, were able to supply a fairly complete list. This was supplemented by indexes obtained from other sources (e.g., lists of businesses supplied by the Department of Labour and Employment, lists of pharmacies from the Chemists' Guild, lists of registered hotels, auctioneers, pawbrokers, wine and spirit merchants, etc.). These supplementary lists were interchecked with the main index and any omissions rectified. Results later showed that very few businesses were omitted from the final index, but the system of interweaving a number of indexes to give a complete picture had one drawback: a number of businesses were initially recorded twice, once under the proprietor's name and again under a trade name. This involved some initial unavoidable duplication of inquiries.

Definitions and Coverage.—In the regulations authorizing the census the following definitions were prescribed:

"Retail establishment" means any premises at or from which the business of retail trading is carried on;

"Wholesale establishment" means any premises at or from which the business of wholesale trading is carried on, but does not include any premises at or from which a manufacturer carries on wholesale or retail trading as an integral part of his normal business unless those premises are completely detached and no other part of his business is carried on at or from them;

"Service establishment" means any premises at or from which any services of a class or kind specified by the Government Statistician for the purposes of these regulations are rendered.

The following types of retail and wholesale businesses were, for various reasons, excluded from the census:

Milk, and milk treatment (milk vendors).

On-the-spot sales by market gardeners and nurserymen.

Pie-carts.

Home dressmakers.

Petrol resellers.

Oil companies.

Timber.

Bricks.

Roofing tiles.

Monumental masonry.

Acetone and gas.

Book sales by Government Printer.

Itinerant traders and hawkers.

Kauri-gum dealers.

Newspapers sales otherwise than in shops.

Seedling tree sales by New Zealand Forest Service.

Indentors and manufacturers' agents and commercial travellers.

Caterers for special occasions (race meetings, sports meetings, etc.).

Retailing direct from factory premises.

Coal mines and distribution direct therefrom.

Retailing by various service establishments where such was a very minor or insignificant activity (e.g., occasional small sales by electricians and plumbers).

Stock and station agents (so stated) were in all cases classified as wholesale establishments.

Services.—In this, the initial Census of Distribution in New Zealand, it was decided to limit the inquiry to a selected group of services, those covered being as follows:

Personal Services—

Cleaners (office, shop, and window).

Funeral directors and undertakers.

Hairdressers and beauty parlours.

Laundries, dry cleaners, carpet cleaners, dyers.

Photographers (portrait and commercial).

Community and business services—

Advertising agencies.

Chiropodists.

Commercial artists.

Opticians.

Private rental libraries and book clubs.

Turkish baths.

Other services—

Bicycle repairs.

Blacksmiths.

Boot and shoe repairs.

Carpet fitters and sewers.

Electrical repair shops.

Gunsmiths.

Locksmiths.

Tool repairers and sharpeners.

Watch and clock repairs.

Both retail and wholesale trading include the provision of certain services (where such services are provided, e.g., tobacconist and hairdresser), but in such cases the retail or wholesale sales portion of the business represents the major activity. Similarly, some establishments classified under "Services" carry out a degree of retail sales. In the tables published herein, with the exception of those appearing under the sub-title of "Special Analyses", all trading has been included under the heading of the dominant activity.

There is an undisclosed degree of wholesaling carried out by retailers and similarly a degree of retailing by wholesalers, but no provision has been made to separate such activities.

Abbreviations and Contractions Used in the Statistical Tables.—In presenting the data the following contractions, etc., have been used:

U.A. = Urban area (i.e., principal centres of population, plus suburbs).

Smaller centres = Towns other than urban areas, but with population of over 4,000 persons.

Other urban = Boroughs with population of under 4,000 persons.

Rural = Town districts and counties.

The urban areas are as follows:

Main	Auckland.	Christchurch.
	Wellington.	Dunedin.
Secondary	Hamilton.	Palmerston North.
	Gisborne.	Wanganui.
	Napier.	Nelson.
	Hastings.	Timaru.
	New Plymouth.	Invercargill.
	Hutt.	

Smaller centres (boroughs outside of urban areas, but with population of over 4,000) are as follows:

Whangarei.	Hawera.	Westport.
Thames.	Feilding.	Greymouth.
Tauranga.	Masterton.	Ashburton.
Rotorua.	Levin.	Oamaru.
Dannevirke.	Blenheim.	Gore.
Stratford.		

Summary.—It is estimated that the returns from which the census tables have been compiled represent 95 per cent of all stores coming within the scope of the inquiry, with probably over 97 per cent of the total turnover.

The period for which the information was requested, and to which most of it relates, is the year ended 31 March 1953.

A measure of the importance of the distributive sector of New Zealand's economy can be gained from the fact that the value added to merchandise from the stage of purchase to retail sale was approximately £150-£160 million in the year ended 31 March 1953.

RETAIL ESTABLISHMENTS: Regional Distribution.—Of the 21,523 retail stores covered by the census, 14,678, or 68.2 per cent, were situated in the North Island, and 6,845, or 31.8 per cent, in the South Island.

Distribution by Provincial Districts.—The distribution of stores and of turnover throughout the various provincial districts was roughly proportionate to the distribution of population.

The following table shows details by provincial districts. The figures quoted in brackets are in each case the percentage of total.

Provincial Districts	Population at 31 March 1953	Number of Stores	Purchases During 1952-53	Sales or Turnover During 1952-53	Stocks at Close of Year (March 1953)
	(000)		£(000)	£(000)	£(000)
Auckland	790.2	8,112	118,843	151,837	25,607
	(38.9)	(37.7)	(37.6)	(37.2)	(35.7)
Hawke's Bay	95.6	1,059	14,586	18,184	3,439
	(4.7)	(4.9)	(4.6)	(4.5)	(4.8)
Taranaki	90.5	1,006	17,452	20,796	3,688
	(4.4)	(4.7)	(5.5)	(5.1)	(5.1)
Wellington	408.9	4,501	69,233	87,213	15,492
	(20.1)	(20.9)	(21.6)	(21.6)	(21.6)
Marlborough	24.1	279	3,077	3,868	852
	(1.2)	(1.3)	(1.0)	(1.0)	(1.2)
Nelson	70.2	721	8,815	11,199	1,976
	(3.5)	(3.3)	(2.7)	(2.8)	(2.8)
Westland	18.5	290	2,930	3,719	647
	(0.9)	(1.3)	(0.9)	(0.9)	(0.9)
Canterbury	290.3	2,943	47,972	60,388	11,521
	(14.3)	(13.7)	(15.0)	(14.9)	(16.0)
Otago—					
Otago portion	164.3	1,782	22,393	28,521	5,517
	(8.1)	(8.3)	(7.0)	(7.1)	(7.7)
Southland portion	79.6	830	14,561	18,272	3,022
	(3.9)	(3.9)	(4.6)	(4.5)	(4.2)
Totals, all retail stores	2,032.0	21,523	319,862	403,997	71,761
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

The principal centres of population (urban areas), covering 55.5 per cent of New Zealand's people, contained 61.0 per cent of all retail stores, with 68.1 per cent of total sales or turnover.

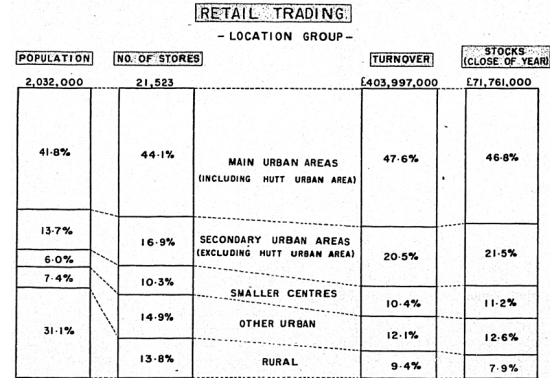
Distribution by Urban and Rural Areas.—Rural areas (counties and town districts), with 31.1 per cent of total population, contained 13.8 per cent of all retail stores, but were responsible for only 9.4 per cent of turnover.

The following table shows details by urban and rural areas. The figures quoted in brackets are in each case the percentage of total.

Location Group	Population at 31 March 1953	Number of Stores	Sales or Turnover During 1952-53	Stocks at Close of Year (March 1953)
	(000)		£(000)	£(000)
Main urban areas (including Hutt U.A.)	849.0	9,485	192,236	33,563
	(41.8)	(44.1)	(47.6)	(46.8)
Secondary urban areas (excluding Hutt U.A.)	279.1	3,648	82,852	15,395
	(13.7)	(16.9)	(20.5)	(21.5)
Smaller centres	121.1	2,399	41,931	8,073
	(6.0)	(10.3)	(10.4)	(11.2)
Other urban	150.3	3,216	48,951	9,059
	(7.4)	(14.9)	(12.1)	(12.6)
Rural	632.5	2,965	38,027	5,671
	(31.1)	(13.8)	(9.4)	(7.9)
Totals, all retail stores	2,032.0	21,523	403,997	71,761
	(100.0)	(100.0)	(100.0)	(100.0)

Hutt urban area, though it has a population of 80,000, is so close to Wellington City, and the trading pattern is so closely interwoven, that to divorce these two areas would not give a true picture of either. Consequently, Hutt urban area has been combined with Wellington urban area in the tables in this Section of the Year-Book.

Graphic presentation of the information given in the preceding table follows.



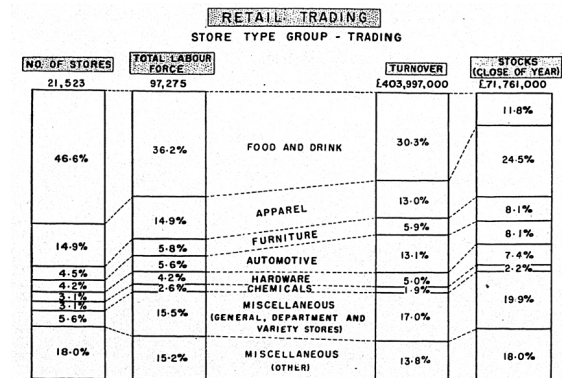
Analysis by Store Type.—About half the total number of retail stores were in the food and drink group—grocers, butchers, dairies, hotels, and so on. This group accounted for only 30 per cent of the turnover, however, the average turnover per store being £12,200. As against this the automotive group, which accounts for only 4 per cent of all retail stores, handled 13 per cent of the turnover, with an average turnover of £58,200 per store.

As would be expected, the average number of employees per store was highest in the group covering department, variety, and general stores. These showed an average of 12.5 employees per store, more than double that of the hardware group, 6.1, which was the next highest in average employment per store. The automotive and furniture groups, 6.0 and 5.9, were next in order, then apparel, 4.5, chemicals and miscellaneous, each 3.8, with food and drink, the lowest group in this respect, with 3.5 employees per store.

The following table shows details by store type groups.

Store Type Group	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953	Average Labour Force Per Store	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53	Average Sales or Turnover Per Unit of Labour Force	Value of Stocks at Close of Year (March 1953)
		Males	Females	Total						
							£(000)	£(000)	£	£(000)
Food and drink	10,033	13,586	9,550	23,136	35,210	3.5	10,117	122,421	3,477	8,470
Apparel	3,215	4,182	7,763	11,945	14,501	4.5	5,212	52,673	3,632	17,587
Furniture	958	3,812	1,173	4,985	5,622	5.9	2,692	23,804	4,234	5,805
Automotive	906	4,077	712	4,789	5,419	6.0	3,279	52,729	9,730	5,832
Hardware	674	2,850	768	3,618	4,095	6.1	1,937	20,289	4,955	5,290
Chemicals (chemist, etc.)	664	1,186	847	2,033	2,538	3.8	938	7,566	2,581	1,597
Department, variety, and general stores	1,206	6,426	7,746	14,172	15,130	12.5	6,070	68,725	4,542	14,256
Miscellaneous	3,867	6,899	4,192	11,091	14,760	3.8	5,270	55,790	3,780	12,924
Totals, all retail stores	21,523	43,018	32,751	75,769	97,275	4.5	35,515	403,997	4,153	71,761

The information given above is shown in graphic form below.



21*

Size of Turnover.—A classification by size of turnover shows that shops with over £250,000 turnover numbered only 122, 0.6 per cent, but covered £71,762,000, 17.8 per cent, of turnover. Small units with under £5,000 of turnover were very numerous, 5,620, or 261 per cent, but the turnover of these (£16,511,000) represented only 4.1 per cent of the total.

Although the very big shop does a large proportion of total retail trade, while the very small shop does only a small percentage of the total business, the moderately sized shop is very important both in numbers and in size of turnover. Seventeen thousand shops had a turnover of less than £20,000 a year, and between them they carried out 35 per cent of total business by retail stores.

The following table shows details by turnover size groups.

Amount of Total Turnover	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53	Value of Stocks at Close of Year (March 1953)
		Males	Females	Total				
£					£(000)	£(000)	£(000)	
Under 5 000	5,620	1,183	2,241	3,424	10,203	1,210	16,511	2,907
5,000 to 9,999	6,056	4,065	5,041	9,106	16,198	3,364	44,421	6,817
10,000 to 19,999	5,736	8,741	6,918	15,659	21,093	6,832	80,116	12,513
20,000 to 49,999	2,897	10,854	5,983	16,837	18,653	8,175	85,206	14,960
50,000 to 99,999	711	5,934	2,955	8,889	9,167	4,684	48,106	9,118
100,000 to 249,999	381	5,638	3,282	8,920	9,015	5,177	57,875	11,180
250,000 to 499,999	77	2,357	1,402	3,759	3,764	1,886	26,842	5,279
500,000 and over	45	4,246	4,929	9,175	9,182	4,187	44,920	8,987
Totals, all retail stores	21,523	43,018	32,751	75,769	97,275	35,515	403,997	71,761

Type of Organization.—Over half, 51 per cent, of retail stores were returned as being under individual ownership, while 31 per cent were shown as operated by private registered companies, 14 per cent by partnerships, and 3 per cent by public registered companies.

The percentage of total turnover covered by the various types of organization (average turnover per store being shown in brackets) was: private registered companies, 51 (£31,000); individual ownership, 23 (£8,000); public registered companies, 15 (£95,000); and partnerships, 9 (£12,000).

The following table shows details by type of organization. The figures quoted in brackets are in each case the percentage of total.

Type of Organization	Number of Stores	Turnover During 1952-53	Stocks at Close of Year (March 1953)
		£(000)	£(000)
Private registered companies	6,593	204,952	42,403
	(30.6)	(50.7)	(59.1)
Public registered companies	661	62,679	11,756
	(3.1)	(15.5)	(16.4)
Individual ownership	11,062	92,408	11,654
	(51.4)	(22.9)	(16.2)
Partnership	2,943	34,824	4,307
	(13.7)	(8.6)	(6.0)
Other	264	9,134	1,641
	(1.2)	(2.3)	(2.3)
Totals, all retail stores	21,523	403,997	71,761
	(100.0)	(100.0)	(100.0)

Multiple Stores.—The number of multiple stores engaged in retail trading represented only 9 per cent of the total stores, but accounted for 20 per cent of the total turnover, 21 per cent of stocks, and 20 per cent of capital invested. A multiple store was so termed where the store was one of a group of four or more under common ownership.

Store Type Group	Number of Stores	Multiple Stores			
		Sales or Turnover During 1952-53	Stocks at		Capital Invested
			Start of Year (March 1952)	Close of Year (March 1953)	
		£(000)	£(000)	£(000)	£(000)
Food and drink	973	20,492	1,247	1,359	6,355
Apparel	259	6,235	1,864	1,895	2,032
Furniture	94	3,047	490	454	867
Automotive	23	4,066	488	438	400
Hardware	54	3,975	669	1,164	1,203
Chemicals (chemist, etc.)	17	383	73	75	94
Department, variety, and general stores	282	30,410	5,734	6,554	10,670
Miscellaneous	235	13,474	2,740	3,824	
Totals, all retail stores	1,957	82,082	13,305	15,763	21,621

Store Type Group	Number of Stores	Other Stores			
		Sales or Turnover During 1952-53	Stocks at		Capital Invested
			Start of Year (March 1952)	Close of Year (March 1953)	
		£(000)	£(000)	£(000)	£(000)
Food and drink	9,060	101,929	6,475	7,111	29,185
Apparel	2,956	46,438	15,097	15,692	14,069
Furniture	864	20,757	5,116	5,351	6,101
Automotive	383	48,663	4,481	5,394	7,287
Hardware	620	16,314	3,382	4,126	4,704
Chemicals (chemist, etc.)	647	7,183	1,362	1,522	2,357
Department, variety, and general stores	924	38,315	7,117	7,702	
Miscellaneous	3,612	42,316	7,929	9,100	21,603
Totals, all retail stores	19,566	321,915	50,959	55,998	85,306

Methods of Selling.—Trade practices in various centres, stores, and store types varied to a great degree, with the result that the figures for cash-order sales and instalment-sales are possibly understated. The statistics are, of course, based on the figures supplied by the individual traders.

An analysis of methods of selling shows that 62.8 per cent of retail sales were for cash, 33.2 per cent by credit, 3.5 per cent on instalment systems, and 0.5 per cent by cash order.

Cash sales were dominant in the food and drink, apparel, and chemicals groups, accounting for over 80 per cent of sales in each of these three groups.

Cash and credit sales were relatively equal in each of the furniture, automotive, and the general department and variety store groups.

Credit sales were dominant in the hardware group, where they accounted for nearly three-quarters of all hardware sales.

Forty-one per cent of all cash sales were in the food and drink group, which also accounted for 13.7 per cent of credit sales.

General, department, and variety stores accounted for 24.9 per cent of credit sales, also 19.5 per cent of instalment sales, 19.0 per cent of cash-order sales, and 12.7 per cent of cash sales.

The automotive group accounted for 31.6 per cent of the instalment sales, with also 18.5 per cent of credit, 17.4 per cent of cash order, and 9.1 per cent of cash sales.

The main and secondary urban areas accounted for 88.6 per cent of all instalment sales 70.9 per cent of cash sales, and 63.5 and 60.7 per cent respectively of cash-order and credit sales.

The following tables show the disposition of the different methods of selling by store type group and by location group. The figures quoted in brackets are in each case the percentage of total.

—	Turnover (1952-53) in the Form of—				Total Sales or Turnover 1952-53
	Cash Sales	Cash Order Sales	Credit Sales	Instalment Sales	
	£(000)	£(000)	£(000)	£(000)	
	<i>Store Type</i>				
Food and drink	104,039		18,382		122,421
	(41.0)		(13.7)		(30.3)
Apparel	44,454	519	6,924	776	52,673
	(17.5)	(28.2)	(5.2)	(5.4)	(13.0)
Furniture	8,861	363	10,250	4,330	23,804
	(3.5)	(19.8)	(7.6)	(30.3)	(5.9)
Automotive	23,098	319	24,794	4,518	52,739
	(9.1)	(17.4)	(18.5)	(31.6)	(13.1)
Hardware	5,636	85	14,497	71	20,289
	(2.2)	(4.6)	(10.8)	(0.5)	(5.0)
Chemicals	6,067	97	1,386	16	7,566
	(2.4)	(5.3)	(1.0)	(0.1)	(1.9)
Miscellaneous—					
Department, variety, and general stores	32,101	349	33,478	2,797	68,725
	(12.7)	(19.0)	(24.9)	(19.5)	(17.0)
Other	29,280	105	24,607	1,798	55,790
	(11.6)	(5.7)	(18.3)	(12.6)	(13.8)
Totals, all retail stores	253,536	1,837	334,318	14,306	403,997
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)
	<i>Location</i>				
Main urban areas (including Hutt U.A.)	131,536	835	50,577	9,288	192,236
	(51.9)	(45.5)	(37.7)	(64.9)	(47.6)
Secondary urban areas (excluding Hutt U.A.)	48,175	331	30,954	3,392	82,852
	(19.0)	(18.0)	(23.0)	(23.7)	(20.5)
Smaller centres	24,831	305	15,999	796	41,931
	(9.8)	(16.6)	(11.9)	(5.6)	(10.4)
Other urban	27,826	226	20,397	502	48,951
	(11.0)	(12.3)	(15.2)	(3.5)	(12.1)
Rural	21,168	140	16,391	328	38,027
	(8.3)	(7.6)	(12.2)	(2.3)	(9.4)
Totals, all retail stores	253,536	1,837	334,318	14,306	403,997
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

WHOLESALE ESTABLISHMENTS: Regional Distribution.—The total of 2,403 wholesale stores included in the tables accounted for a turnover of £305,507,000 during the period covered by the census, or an average turnover of £127,000 per store.

The principal centres of population (urban areas) contained 82.4 per cent of wholesale stores with 92.1 per cent of total sales or turnover. Auckland and Wellington (including Hutt) urban areas together accounted for 45.4 per cent of stores and 56.8 per cent of turnover.

Distribution by Provincial Districts and Location Groups.—While, in the main, the distribution of stores and turnover throughout the provincial districts was roughly proportionate to the distribution of population, Wellington Provincial District was a notable exception in that it accounted for 28.3 per cent of stores and 31.9 per cent of turnover with just over 20 per cent of the population.

The following table shows the distribution of wholesale trading by provincial districts and by main location groups. Owing to the much smaller number of wholesale establishments it is not possible to show out details thereof to the same degree as for retail establishments. The figures quoted in brackets are in each case the percentage of total.

—	Population at 31 March 1953	Number of Stores	Purchases During 1952-53	Sales or Turnover During 1952-53		Stock at Close of Year (March 1953)
				£(000)	£(000)	
	(000)			£(000)	£(000)	£(000)
	<i>Provincial Districts</i>					
Auckland	790.2	844	113,792		18,774	98,158
	(38.9)	(35.1)	(37.3)		(32.9)	(37.0)
Hawke's Bay	95.6	88	7,843		1,225	7,123
	(4.7)	(3.7)	(2.6)		(2.1)	(2.7)
Taranaki	90.3	66	4,091		534	3,427
	(4.4)	(2.7)	(1.3)		(0.9)	(1.3)
Wellington	408.9	679	97,538		21,140	85,672
	(20.1)	(28.3)	(31.9)		(37.0)	(32.2)
Marlborough	24.1	18	1,796		285	1,637
	(1.2)	(0.7)	(0.6)		(0.5)	(0.6)
Nelson	70.2	39	2,828		347	2,393
	(3.5)	(1.6)	(0.9)		(0.6)	(0.9)
Westland	18.5	19	1,343		202	1,101
	(0.9)	(0.8)	(0.4)		(0.4)	(0.4)
Canterbury	290.3	339	44,314		7,755	37,985
	(14.3)	(14.1)	(14.5)		(13.6)	(14.3)
Otago—						
Otago portion	164.3	216	21,246		5,183	18,721
	(8.1)	(9.0)	(7.0)		(9.1)	(7.0)
Southland portion	79.6	95	10,716		1,671	9,442
	(3.9)	(4.0)	(3.5)		(2.9)	(3.6)
Totals, all wholesale stores	2,032.0	2,403	305,507		57,116	265,659
	(100.0)	(100.0)	(100.0)		(100.0)	(100.0)
	<i>Location Groups</i>					
Main urban areas (including Hutt urban area)	849.0	1,551	202,474		234,009	46,459
	(41.8)	(64.5)	(76.2)		(76.6)	(81.4)
Secondary urban areas (excluding Hutt urban area)	279.1	430	41,350		47,284	7,101
	(13.7)	(17.9)	(15.6)		(15.5)	(12.4)
Smaller centres	903.9	422	21,835		24,214	3,556
	(44.5)	(17.6)	(8.2)		(7.9)	(6.2)
Totals, all wholesale stores	2,032.0	2,403	265,659		305,507	57,116

	Population at 31 March 1953	Number of Stores	Purchases During 1952-53	Sales or Turnover During 1952-53	Stock at Close of Year (March 1953)
	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

Analysis by Store Type.—The significance of store type is not as great in wholesale as in retail trading in that the general merchant, who may deal in any type of goods, appreciably affects the position. General merchants accounted for 16.9 per cent of all wholesale stores and for 29.4 per cent of all wholesale turnover. The average labour force per store was 50 per cent higher for the general merchants group than for any other group, and the average turnover per unit of labour force (£10.171) for general merchants was only exceeded in the automotive group (£11.118).

The following table shows details of wholesale establishments by store type groups.

Store Type Group	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953
		Males	Females	Total	
Food and drink	471	3,792	1,302	5,094	5,406
Apparel	269	1,628	1,329	2,957	3,093
Furniture	168	1,174	330	1,504	1,577
Automotive	142	1,559	383	1,942	1,984
Hardware	280	3,173	823	3,996	4,093
General merchants	406	6,357	2,437	8,794	8,842
Miscellaneous	667	6,529	2,145	8,674	8,898
Totals, all wholesale stores	2,403	24,212	8,749	32,961	33,893

Store Type Group	Average Labour Force Per Store	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53	Average Sales or Turnover Per Unit of Labour Force		Value of Stocks at Close of Year (March 1953)
				£(000)	£(000)	
					£	£(000)
Food and drink	11.5	2,787	41,066	7,596		3,067
Apparel	11.5	1,630	20,330	6,573		6,013
Furniture	9.4	861	12,558	7,963		2,837
Automotive	14.0	1,168	22,059	11,118		4,931
Hardware	14.6	2,502	39,377	9,621		9,274
General merchants	21.8	4,156	89,952	10,171		14,603
Miscellaneous	13.3	4,986	80,185	9,012		16,391
Totals, all wholesale stores	14.1	18,090	305,507	9,014		57,116

Size of Turnover.—A classification by size of turnover shows that stores with under £20,000 turnover numbered 755, 31.4 per cent, but accounted for only £6,807,000, 22 per cent, of turnover. At the other end of the scale a total turnover of £126,477,000, 41.4 per cent, was accounted for by only 133 stores, 5.5 per cent, which had a turnover of £500,000 or more.

Amount of Total Turnover	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53	Value of Stocks at Close of Year (March 1953)
		Males	Females	Total				
£	£					£(000)	£(000)	£(000)
Under 5,000	216	190	150	340	553	136	636	158
5,000 to 9,999	228	408	209	617	794	295	1,662	465
10,000 to 19,999	311	900	360	1,260	1,438	638	4,509	1,065
20,000 to 49,999	541	2,599	907	3,506	3,669	1,920	17,899	4,235
50,000 to 99,999	417	3,120	902	4,022	4,104	2,343	29,713	6,941
100,000 to 249,999	362	4,517	1,408	5,925	6,007	3,451	56,330	10,823
250,000 to 299,999	53	1,100	372	1,472	1,472	788	14,534	2,462
300,000 to 399,999	99	2,968	857	3,825	3,837	2,174	34,396	5,860
400,000 to 499,999	43	1,369	487	1,856	1,862	990	19,351	4,558
500,000 and over	133	7,041	3,097	10,138	10,157	5,555	126,477	20,549
Totals, all wholesale stores	2,403	24,212	8,749	32,961	33,893	18,090	305,507	57,116

SERVICE ESTABLISHMENTS.—As was indicated in the general notes to this Section, merely a selected group of services were covered in the census. These were grouped in three broad divisions, personal, business and community, and other services.

Over nine-tenths of service establishments provided services only, while in the remainder some secondary form of trading was carried on.

A total of 2,696 services was covered by the census, of which 1,839, or 68.2 per cent, were in the North Island and 857, or 31.8 per cent, in the South Island. The total turnover handled by service establishments was £11,563,000, an average turnover of £4,000 per establishment.

The principal centres of population (urban areas) contained 68.1 per cent of service establishments, with 84.3 per cent of the total turnover of such establishments.

Over half, 57.6 per cent, of service establishments covered by the census were in the "Personal service" category, and these accounted for 52 per cent of total turnover.

Just under three-quarters, 73.6 per cent, of service establishments had a turnover of less than £3,000, accounting for only 20.9 per cent of the total turnover. Establishments with a turnover of £20,000 and over were only 93 in number, 3.4 per cent, but accounted for 43.7 per cent of the total turnover.

The following table gives details of numbers and location of those services covered by the census.

—	Personal Services		Business and Community Services		Other Services	Total
	No.	1,554	366	776		
Number of services	No.	1,554	366	776	2,696	
Sales or turnover during 1952-53	£(000)	6,018	3,955	1,590	11,563	
Location of stores—						
Main urban areas (including Hutt U. A.)	No.	744	235	337	1,316	
Secondary urban areas (excluding Hutt U.A.)	No.	314	67	139	520	
Smaller centers	No.	184	42	78	304	
Other urban	No.	240	17	128	385	
Rural	No.	72	5	94	171	
Paid employees on 15 April 1953—						
Males	No.	2,100	586	458	3,144	
Females	No.	3,884	481	42	4,407	
Totals	No.	5,984	1,037	500	7,521	
Total labour force on 15 April 1953	No.	7,493	1,356	1,320	10,169	
Salaries and wages paid during 1952-53	£(000)	2,430	585	229	3,244	

The next table shows, for the same services, a classification by turnover and number of employees.

Amount of Total Turnover	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53
		Males	Females	Total			
£	£				£(000)	£(000)	
Under 1,000	941	26	179	205	1,192	53	589

Amount of Total Turnover	Number of Stores	Number of Paid Employees on 15 April 1953			Total Labour Force on 15 April 1953	Salaries and Wages Paid During 1952-53	Sales or Turnover During 1952-53
		Males	Females	Total			
1,000 to 2,999	1,044	296	886	1,182	2,259	353	1,825
3,000 to 4,999	282	344	391	735	1,026	431	1,062
5,000 to 9,999	232	580	477	1,057	1,256	441	1,595
10,000 to 19,999	104	525	595	1,120	1,188	536	1,436
20,000 to 49,999	64	755	967	1,722	1,745	745	1,927
50,000 to 99,999	21	361	688	1,049	1,052	412	1,444
100,000 and over	8	227	224	451	451	273	1,685
Totals	2,696	3,114	4,407	7,521	10,169	3,244	11,563

SPECIAL ANALYSES: Retail and Service Establishments.—Special analyses were taken out to show total retail trading by retail and service establishments, and, at the same time, details were also obtained of total services provided.

The following table shows details of retail trading as above by commodity groups. The three major commodity groups are groceries and small goods; clothing, drapery and dress piece goods; and motor vehicles, parts, and accessories. These accounted for 14.8, 14.2, and 13.3 per cent respectively of total retail turnover.

Commodity Group	Sales or Turnover During 1952-53		Value of Stocks at	
	Amount	Per Cent of Total	Start of Year (March 1952)	Close of Year (March 1953)
	£(000)		£(000)	£(000)
Groceries and small goods (including butter, bacon, etc.)	59,721	14.8	6,751	6,937
Butchers' meat, fish, fruit, and vegetables	31,011	7.7	562	655
Other foods (bread, cakes, pastry, etc.)	12,100	3.0	363	359
Milk, ice cream, confectionery, soft drinks	10,203	2.5	620	690
Beer, wine, and spirits	25,379	6.3	1,552	2,023
Tobacco, cigarettes, and tobacconists' sundries	9,204	2.3	823	893
Chemists' goods, toiletries, cosmetics (including dispensing)	8,765	2.2	1,737	1,917
Clothing, drapery, and dress piece goods	57,348	14.2	17,772	18,051
Footwear	8,852	2.2	3,008	3,203
Furniture, bedding, floor coverings, soft furnishings, etc.	21,792	5.4	6,037	6,660
Musical instruments, including radios	4,726	1.2	837	921
Household appliances and electrical goods	9,729	2.4	1,726	1,953
Hardware, domestic china, and glassware	10,601	2.6	2,815	3,379
Hardware, builders', and materials (excluding timber, bricks, and roofing tiles)	13,132	3.3	2,275	3,235
Books, stationery, and newspapers	9,396	2.3	1,557	1,786
Motor vehicles, parts, accessories (excluding petrol and oils)	53,591	13.3	4,666	5,629
Coal, coke, and firewood	3,134	0.8	130	142
Fertilizers, manures, grain, seed, and fodder	9,989	2.5	1,108	1,230
Florists' goods	513	0.1	19	24
Jewellery (including watches, clocks, and precious stones)	3,904	1.0	1,676	1,840
Leather, luggage, and harness	1,116	0.3	252	286
Agricultural machinery	9,875	2.5	2,320	3,374
Other machinery	3,206	0.8	568	714
Paint, glass, and wallpaper	1,874	0.5	422	495
Photographic supplies and equipment	341	0.1	87	99
Plumbing equipment and piping	857	0.2	111	132
Seeds, plants, and garden supplies	2,525	0.6	248	273
Sports goods (including toys and games)	2,115	0.5	511	620
Bicycles, parts, and accessories	2,187	0.5	522	645
Other goods	15,882	3.9	3,376	3,816
Totals, retail commodities	403,078	100.0	64,441	71,982

The following table shows details of total services provided by retail and service establishments.

Type of Service	Number of Establishments Handling Service Specified	Sales or Turnover During 1952-53
Personal service provided by establishments classified as—		£(000)
Service establishments	1,564	5,772
Retail stores	846	773
Totals, personal services	2,410	6,545
Community and business services provided by establishments classified as—		
Service establishments	378	3,636
Retail stores	74	146
Totals, community and business services	452	3,782
Other services provided by establishments classified as—		
Service establishments	782	1,436
Retail stores	537	719
Totals, other services	1,319	2,155
Grand totals, all services	4,181	12,482

Wholesale Trading.—The following table shows details of wholesale trading by main commodities handled.

Commodity Group	Sales or Turnover During 1952-53		Value of Stocks at	
	Amount	Per Cent of Total	Start of Year (March 1952)	Close of Year (March 1953)
	£(000)		£(000)	£(000)
Groceries and small goods (including butter, bacon, etc.)	45,087	14.8	5,297	5,260
Butchers' meat, fish, fruit, and vegetables	15,652	5.1	416	478
Other food (bread, cakes, and pastry, etc.)	3,983	1.3	173	184
Milk, ice cream, confectionery, soft drinks	3,102	1.0	192	191
Beer, wine, and spirits	7,249	2.4	886	1,182
Clothing, drapery, and piece goods	19,567	6.4	5,590	5,983
Furniture, bedding, floor coverings, soft furnishings, etc.	7,720	2.5	2,075	2,308
Household appliances and electrical goods	14,926	4.9	2,689	3,657
Hardware, domestic china, and glassware	8,619	2.8	1,871	2,515
Hardware, builders', and materials (excluding timber, bricks, and roofing tiles)	15,897	5.2	2,486	3,666
Books, stationery, and newspapers	4,410	1.4	871	849

Commodity Group	Sales or Turnover During 1952-53		Value of Stocks at	
	Amount	Per Cent of Total	Start of Year (March 1952)	Close of Year (March 1953)
Motor vehicles, parts, accessories (excluding petrol and oils)	28,143	9.2	5,825	6,632
Coal, coke, and firewood	7,472	2.5	52	91
Fertilizers, manures, grain, seed, and fodder	19,753	6.5	1,516	2,211
Agricultural machinery	7,932	2.6	1,638	2,184
Other machinery	15,060	4.9	3,276	4,514
Paint, glass, and wallpaper	5,551	1.8	966	1,330
Plumbing equipment and piping	1,702	0.6	335	393
Rubber goods (excluding tires and tubes)	1,358	0.4	457	371
Seeds, plants, and garden supplies	1,559	0.5	216	186
Other	70,765	23.2	10,702	12,931
Total, wholesale commodities	305,507	100.0	47,529	57,116

Chapter 29. SECTION 29—SOCIAL ACCOUNTS

Table of Contents

[29A—NATIONAL INCOME AND EXPENDITURE](#)

[29 B—INDUSTRY SECTOR ACCOUNTS](#)

[29 C—BALANCE OF PAYMENTS](#)

29A—NATIONAL INCOME AND EXPENDITURE

INTRODUCTORY.—In recent years the emphasis in social accounting has shifted more and more from the mere ascertainment of the various income, expenditure, and outlay aggregates themselves to an analysis of economic inter-relationships between industrial sectors and their resulting money flows. Since the publication of the 1953 issue of the Year-Book further progress has been made in sector statistics, and it was found convenient to reproduce all the relevant tables in a separate subsection independently of National Income and Expenditure statistics (see Section 29B following).

The estimates of National Income and Expenditure shown on the following pages follow the same pattern, both in method of estimation and presentation, as those published in previous issues of the Year-Book.

The principal of these aggregates is that of "National Income," which, in general terms, measures the total value of all incomes (before deduction of taxation) earned by the residents of New Zealand in producing the current output of goods and services.

Income can be earned in a variety of ways and accrues to individuals according to the manner in which they participate in current production. Salary and wage payments represent the return to labour for services rendered, and include in this concept supplementary income in "kind" such as board and keep provided by the employer. Of considerable importance during the war years, the item "pay and allowances of Armed Forces," which analogous to salary and wage payments when considering the source of such income, does not necessarily fit in with this concept when the former civilian occupation of the serviceman is considered. This fact must be taken into account in comparing the distributive shares of the various groups in the national income over the war period. Clothing, food, accommodation, and other income in "kind" supplied to members of the Armed Forces are included under this heading, as are also deferred pay, multi-allowance, and war-gratuity payments.

Rental value of owner-occupied houses is a non-monetary item representing the imputed net rental value (before payment of rates, but after deductions for depreciation, mortgage interest, insurance, and repairs and maintenance) of all owner-occupied houses (except farm houses).

"Other personal income" (excluding company dividends) represents the aggregate income of professional men, farmers, and individual traders, as well as income "Other than salary and wages" of salary and wage earners—e.g., rent, interest, etc. Included under this heading as current income are changes in balances of primary-produce stabilization accounts, and monies retained under authority of the Wool Proceeds Retention Act 1950.

Company income represents the total income (distributed and undistributed) of companies. This means that dividends distributed to individuals are included under this heading, and to this extent the total "Other personal income" is understated.

Apart from these incomes which result from current productive activities on the part of individuals receiving them, there are other incomes of a "non-productive" nature in the form of social security benefits, pensions, and interest on public debt. These "transfer" incomes, as they are called, do not arise from the current production of goods and services and must therefore be excluded from the national income. They do, however, form part of the intermediate concept of "private income," which represents the aggregate of earned incomes and unearned "transfer" incomes received by or accruing to persons. Capital receipts—e.g., from deceased persons' estates, repayment of debt, etc.—are, however, excluded both from "private income" and "national income." It includes as income accruing, but not actually received, undistributed incomes of companies. The deduction of direct taxation gives the concept of "private disposable income."

In general, only incomes arising from the production of goods and services destined for the market form part of the national income; it follows, therefore, that the services of housewives, for instance, or the produce of home gardens are excluded. On the other hand, farm produce consumed on farms is part of the national income.

The addition to private income of Government and local authority trading profits and lump-sum payments from the United Kingdom Government, and the deduction of "transfer" incomes as detailed above, gives the concept of "net national income at factor cost" or, more briefly, "national income." This may be defined as the income (before tax) earned by or accruing to the factors of production, in or only temporarily absent from New Zealand, in producing the current output of goods and services of all kinds. The further addition of indirect taxes (net of subsidies) is necessary to bring the net national income to market price valuation.

Gross national product is obtained by adding depreciation allowances to net national income at market prices, and represents the value of current output before deduction of allowances for depreciation and obsolescence, and is equal on the expenditure side to "gross national expenditure."

The following table shows the principal of the above aggregates and the manner in which they are derived one from the other for the years 1938-39, and 1943-44 to 1952-53.

PRINCIPAL INCOME AGGREGATES

£(million)

—	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53*
Private income (26)	199.8	330.9	339.1	360.6	396.3	444.9	462.4	526.5	656.1	670.5	700.6
Plus Government trading income (6)	8.7	17.9	14.5	15.3	14.5	13.3	12.0	13.3	15.8	17.7	16.9
Lump-sum payments from United Kingdom Government (7)		3.0	5.0	5.0	5.0	5.0					
Less transfer incomes—											
Social security benefits and pensions (22)	-7.7	-15.8	-17.6	-20.9	-34.8	-37.6	-39.5	-42.6	-47.5	-53.5	-54.2
Interest on public debt paid in New Zealand (8)	-7.0	-11.3	-12.9	-13.8	-15.1	-15.3	-15.5	-16.2	-16.9	-17.4	-17.0
Net national income at factor cost (national income) (9)	193.7	324.6	328.1	346.2	365.9	410.2	419.4	481.0	607.4	617.4	646.4
Plus indirect taxation (10)	20.6	31.8	34.0	37.3	43.0	53.0	46.1	49.8	55.6	71.0	67.0
Less subsidies (11)	-0.6	-3.1	-4.6	-6.6	-11.8	-13.6	-11.5	-14.6	-9.4	-15.2	-15.0
Net national income at market prices (12)	213.7	353.3	357.5	376.9	397.1	449.6	454.0	516.2	653.6	673.2	698.3
Plus depreciation allowances (13)	15.0	17.0	19.0	20.0	24.0	26.0	30.0	34.0	38.0	40.0	43.0
Gross national product (14)	228.7	370.3	376.5	396.9	421.1	475.6	484.0	550.2	691.6	713.2	741.3
* Provisional.											
NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.											

The estimates are based primarily on details of receipts from the social security charge under the Social Security Act of 1938. This charge is levied at a flat rate on the incomes of all individuals over the age of sixteen years and on all companies trading in New Zealand. The charge is deductible at source in the case of salary and wage payments, but is payable during the year following that in which the income is earned in the case of income "other than salaries and wages" of individuals and company incomes.

No allowance has been made for possible evasion of taxation in the estimates, nor has it been possible to take into account "negative" income, or losses of previous years allowed as a set-off against current profits for taxation purposes.

The various aggregates are conventionally measured over a given period of time, and this in New Zealand is taken as the year ending 31 March. Values in all cases are in terms of New Zealand currency.

Full details of the methods used and a description of the items shown in the following tables are given in the report entitled "Official Estimates of National Income and Sector Accounts, 1938-39 to 1952-53," issued as a supplement to the July 1953 issue of the *Monthly Abstract of Statistics*.

NATIONAL INCOME AND EXPENDITURE.—It is necessary to point out that the estimates of national expenditure should be used with some caution, owing to the fact that not all of the items of expenditure can be estimated directly. On the other hand it is well to realize that, whatever inherent error there may exist in the absolute values of individual expenditure items, year-to-year changes are likely to be much more accurate simply because the method of estimation is based on the same pattern every year.

The method necessarily adopted does not allow a check to be made on the present national income aggregates, in which no allowances have been made for any possible understatement of incomes shown in the taxation returns which the estimates are based. Neither do they take into account "negative" incomes nor losses of previous years allowed as a set-off against current profits for taxation purposes. Any understatement of the gross product total arising from these omissions will therefore be reflected in a similar understatement of "personal consumption" which is shown as a residual item in the break-up of national expenditure (refer table on page 657, item 15). Direct estimates are made of expenditure on Government-provided goods and services, gross capital formation in New Zealand by private and Government sectors, and the balance of overseas payments on current account (sometimes termed "net overseas investment" or "net lending abroad").

This treatment has the advantage in an analysis of private income and outlay (refer table on page 658) of allowing an estimate of private savings to be made, again as a residual item, by deducting direct taxation, and "personal consumption" will naturally incorporate all the errors of the estimates, but the major apparent error—i.e., that of understatement for the purpose of tax evasion—is cancelled out by a similar error in both private income and personal consumption totals. This private savings will necessarily include other errors of the estimates that are not distorted by the factors mentioned.

The various tables are given and their derivation and composition discussed later, but before presenting this detail it is of interest to examine the relationships existing between some of the more important aggregates. The following table gives the principal of these.

PRINCIPAL AGGREGATES AND THEIR RELATIONSHIPS

—	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
National income (9)	Em. 194	325	419	481	607	617	646
Gross national product (14)	229	370	484	550	692	713	741
Personal expenditure on consumer goods and services (15)	159	173	346	355	418	450	439
As percentage of gross national product	69	47	71	65	60	63	59
Gross capital formation in New Zealand (17)	Em. 44	40	69	120	171	182	180
As percentage of gross national product	19	11	14	22	25	26	24
Cost of Government-provided goods and services (16)	Em. 32	161	64	71	78	97	111
As percentage of gross national product	14	44	13	13	11	14	15
Private income (26)	Em. 200	331	462	527	656	671	701
Private savings (29)	Em. 17	83	22	76	125	79	117
As percentage of private income	9	25	5	14	19	12	17

* Provisional.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

National income at factor cost showed a further increase of 4.7 per cent in 1952-53 as compared with an increase of 1.6 per cent in 1951-52. Salary and wage payments rose by 6.5 per cent (as against an increase of 16.5 per cent in the previous year), and other personal income by 21 per cent as against a decrease of 20 per cent previously. Of the latter group, the movement in farm incomes is by far the most important. Basing the movement in farm incomes on actual cash receipts, including releases from primary produce stabilization accounts and wool retention accounts, farming incomes increased by 9.3 per cent, against a decrease of 6.9 per cent in the previous year. The upward movement in company incomes (before distribution) was small (1.3 per cent) compared with the previous increase of 8.6 per cent.

The most interesting developments, however, have occurred on the expenditure side of the national accounts. Personal expenditure on consumer goods and services, which throughout the war and post-war years has shown a continuously rising tendency keeping more or less in step with the rising value of output, has shown an absolute decline in comparison with 1951-52 and while the gross national product has increased by 3.9 per cent between 1951-52 and 1952-53, personal expenditure on goods and services has decreased from 63 per cent to 59 per cent of gross national product. This latter figure is the lowest of all post-war years since estimates of National Income and Expenditure have been prepared.

It may be of interest to survey briefly the factors which have contributed to this development. One item of importance in the disposal of the national product is capital formation—the accumulation both of new productive capital and stocks. A glance at the relevant tables will reveal, however, that gross capital formation has declined absolutely and also as a percentage of gross national product (from 26 to 24 per cent of G.N.P.). The absolute decline is very slight and can be disregarded to all intents and purposes; the salient fact, however, is the shift from private capital formation to expenditure on capital works by the General Government (including local authorities). In 1951-52 private investment accounted for 181 per cent of the gross national product; Government investment was 7.4 per cent. In the following year private investment declined to 14.8 per cent and Government investment increased to 9.4 per cent of gross national product. It must therefore be concluded that the trend in total capital investment was not in itself responsible for the decline in personal expenditure on goods and services; it is necessary to consider the other two items of national expenditure—viz. Government current expenditure (cost of Government-provided goods and services) and net overseas investment—in order to provide an explanation.

Current Government expenditure increased from £77m. in 1951-52 (14 per cent of gross national product) to £111m. (15 per cent of gross national product) in 1952-53. Included in this total increase of £14m. are higher defence expenditure (increase of £9.3m.), an increase in current expenditure by local authorities (£2.5m.), expenditure connected with the development of primary and secondary industries (£1.8m.), subsidies to Hospital Boards (£1.3m.), and non-monetary social security benefits and pensions (£1.0m.). The net balance is the result of minor fluctuations in all the other expenditure items.

Net overseas investment was a still more significant factor in the utilization of the gross national product; a current deficit of £16m. in 1951-52 was turned into a net surplus of £11m. in 1952-53. The absolute change in this one item (£27m.) is very nearly equal to the total increase in the gross national product (£28m.). This development shows in a striking fashion how, in an economy as dependent on external trade as New Zealand's economy, external fluctuations produce significant changes in the more flexible items of National Income and Expenditure, while such expenditures as that of Government and capital formation (which are planned in advance) remain fairly rigid.

The reverse side of the same problem can be seen from a perusal of the tables on page 658 (Private Income and Outlay) and page 659 (Combined Capital Account). The increase in private income in 1952-53 was, in absolute figures, approximately the same as in gross national product. With taxation revenue moving only slightly upwards, the corollary of a reduction in personal

expenditure was a marked increase in private savings (12 per cent of private income in 1951-52, 17 per cent of private income in 1952-53). Private savings were called upon to finance not only the switch from an external deficit to an external surplus, but the increase in Government (including local authority) capital investment as well. Owing to a rise of current Government and local authority expenditure—already analysed above—there was, in 1952-53, a reduction in the current surplus remaining in the hands of Government. In recent years this surplus has usually contributed substantially to the financing of capital works.

The four tables on pages 657-659 give the complete details of the various aggregates already mentioned and the manner in which they are derived from the accounts covering the different sectors of the economy.

National Income and Expenditure.—This table gives the composition of the gross national product and the manner in which it has been expended—i.e., gross national expenditure. As mentioned previously, "personal expenditure on consumer goods and services" is obtained as a residual item in this table, all other aggregates being obtained by direct assessment.

Private Income and Outlay.—This table gives in detail the break-up of private income into the various factor incomes and, on the expenditure side, the manner in which these incomes are spent on personal expenditure on consumer goods and services, paid in direct taxation, or saved. A breakdown of "other personal income" is given for each of the years except 1943-44, when this table was not available. The total of personal consumption derived from the preceding table is carried forward to this table, and in this time private savings are obtained as a residual item. The limitations of these two residual items have already been mentioned, and for the reasons given care should be taken in their use.

It is not possible to analyse company income further, and for this reason "other personal income" excludes company dividends, and private savings necessarily include undistributed company profits.

General Government and Local Authority Revenue Account.—The Government sector is discussed in more detail later in this Section, but this table gives a consolidated statement of General Government and local authority revenue and expenditure, showing as a balance that portion of the revenue which was utilized for capital investment in the case of a surplus, or the call on private savings made necessary by a deficit. The effects of the heavy war expenditure in 1943-44 are indicated by the exceptional expenditure on goods and services in that year (principally on war and defence), and the consequent negative balance of £63m. in the account.

Combined Capital Account.—This account indicates the manner in which finance for capital formation has been made available—(a) from private savings, (b) from revenue surpluses of Government, and (c) from amounts set aside as depreciation allowances from income. Gross capital formation represents the construction in New Zealand or purchase from overseas of durable capital assets by the private, General Government, and local authority sectors, plus net investment in stocks by trading concerns. The net change in overseas assets is the same as the item "net overseas investment" shown in the table on page 657, and is an estimate of the change in our overseas investment consequent on this movement in our balance of payments on current account. Once again the effects of war finance are clearly discernible: in 1943-44 the major part of total available funds went to finance the Government deficit principally incurred on account of war expenditure. The process of reconversion from 1946-47 onwards, apart from abnormal re-stocking by trading concerns, is indicated by the figures of gross capital formation which indicate that, notwithstanding shortages of certain essential materials, wartime-enforced postponements of purchase and construction of capital equipment are being gradually overcome. Increased holdings of wool as a result of the waterfront dispute, however, played an important part in raising the figures for 1950-51.

These four tables, then, give a comprehensive picture in broad terms of the changing patterns of New Zealand's economy over a period of fifteen years which have seen the dislocating effects of a major war. One important point to consider when examining the tables, however, is that all the figures given represent "values" and consequently are inflated to a greater or less extent by price movements over the period. In the absence of any price index of a sufficiently wide coverage to deflate the various aggregates, it is necessary to recognize this fact and wherever possible make some allowance for it.

The following are the four tables mentioned.

NATIONAL INCOME AND EXPENDITURE £(million)

—	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
INCOME							
1. Salary and wage payments	111	140	227	251	279	325	346
2. Pay and allowances of Armed Forces	1	58	4	5	6	10	12
* Provisional.							

	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
3. Rental value, owner-occupied houses	6	8	11	11	13	15	16
4. Other personal income	54	72	133	159	240	192	196
5. Company income	20	36	48	58	70	76	77
6. Government and local-authority trading income	9	18	12	13	16	18	17
7. Lump-sum payments from United Kingdom Government		3					
8. Less public debt interest paid in New Zealand	-7	-11	-16	-16	-17	-17	-17
9. Net national income at factor cost	194	325	419	481	607	617	646
10. Plus indirect taxation	21	32	46	50	56	71	67
11. Less subsidies	-1	-3	-12	-15	-9	-15	-15
12. Net national income at market prices	214	353	454	516	654	673	698
13. Plus depreciation allowances	15	17	30	34	38	40	43
14. Gross national product	229	370	484	550	692	713	741
EXPENDITURE							
15. Personal expenditure on consumer goods and services	159	173	346	355	418	450	439
16. Cost of Government-provided goods and services	32	161	64	71	78	97	111
17. Gross capital formation in New Zealand	44	40	69	120	171	182	180
18. Net overseas investment	-6	-4	5	4	25	-16	11
19. Gross national expenditure	279	370	484	550	692	713	741

* Provisional.

PRIVATE INCOME AND OUTLAY £(million)

	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
INCOME							
20. Salary and wage payments	111	140	227	251	279	325	346
21. Pay and allowances of Armed Forces	1	58	4	5	6	10	12
22. Social security benefits and pensions	8	16	39	43	48	54	54
23. Rental value of owner-occupied houses	6	8	11	11	13	15	16
24. Other personal income—							
(a) Professional occupations	5		12	14	16	17	18
(b) Commerce, trade, or business	9		25	27	32	35	36
(c) Farming	25		64	83	116	108	118
(d) Changes in balances in primary-produce stabilization accounts	-2	74	+10	+11	+17	+6	+3
(e) Changes in balances of wool retention moneys					+33	-3	-6
(f) Interest, rent, etc.	15		16	16	18	20	20
(g) Other	2		6	7	8	9	8
25. Company income (before distribution)	20	36	48	58	70	76	77
26. Private income (before tax)	200	331	462	527	656	671	701
OUTLAY							
27. Personal expenditure on consumer goods and services	160	173	346	355	418	450	439
28. Direct taxation	24	75	94	96	113	142	145
29. Private savings	16	83	22	76	125	79	117
30. Private outlay	200	331	462	527	656	671	701

* Provisional.

GENERAL GOVERNMENT AND LOCAL AUTHORITIES—REVENUE ACCOUNT

£(million)

	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
REVENUE							
31. Taxation—							
(a) Direct	24	76	95	97	115	144	148
(b) Indirect	21	32	46	50	56	71	67
32. Trading income	9	18	12	13	16	18	17
33. Less direct taxes paid by Government trading undertakings	-1	-1	-2	-2	-2	-2	-2
34. Lump-sum payments from United Kingdom Government		3					
35. Total revenue	54	128	152	159	184	231	230
EXPENDITURE							
36. Cost of provision of goods and services	32	161	64	71	78	97	111
Transfers to Private Income—							
37. Social security benefits and pensions	8	16	39	43	48	54	54
38. Interest on public debt paid in New Zealand	7	11	16	16	17	17	17
39. Subsidies	1	3	12	15	9	15	15
40. Balance of revenue over expenditure	6	-63	21	14	33	47	32
41. Total expenditure plus or minus revenue balances	54	128	152	159	184	231	230

* Provisional.

COMBINED CAPITAL ACCOUNT £(million)

	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
REVENUE							
42. Private savings	17	83	22	76	125	79	117
43. Revenue balances: General Government and local authorities	6	-63	21	14	33	47	32
44. Depreciation allowances	15	17	30	34	38	40	43
45. Total funds utilized	38	36	74	124	196	167	191
EXPENDITURE							
46. Gross capital formation in New Zealand—							
(a) Private	22	26	29	72	121	129	110
(b) General Government	16	10	32	39	40	41	55
(c) Local authorities	6	4	8	9	10	13	15
47. Net change in overseas assets	-6	-4	+5	+4	+25	-16	+11
48. Total investment	38	36	74	124	196	167	191

* Provisional.

THE GOVERNMENT SECTOR.—The part played by the Government in redirecting the expenditure of that portion of the national income transferred to it from the private sector by way of taxation and trading profits becomes of increasing importance with the increasing complexity of economic issues. The changes in these directions in New Zealand are quite apparent from an examination of the tables of General Government and local-authority revenue and expenditure covering the years 1938-39, 1943-44, and 1948-49 to 1952-53, which are given further on in this Section.

General Government.—The revenue account of the General Government has been obtained by an analysis of the various accounts within the public account, and represents a consolidated statement of Government revenue and expenditure. In the case of trading department operations, which are treated separately, profits only are brought into the main account as a revenue item. Expenditure has been taken "net" in all cases, sundry departmental receipts, etc., being set off against departmental expenditure. The account covers only revenue items, and therefore excludes capital receipts and payments of all kinds, such accounting in part for the differences between the details given here and those set out in the published statement of the public accounts in parliamentary paper B-1 (P. 1) in order that the difference between these two sets of figures may be appreciated, a reconciliation statement is given at the end of this Section.

Varying movements in different avenues of Government expenditure are apparent from the table. Current expenditure on the provision of goods and services moved from £23.2m. in 1938-39 to £154.4m. in 1943-44, the peak year, when expenditure on war and defence was at an unprecedented level. From 1946-47 the expenditure increased steadily from £45.8m. to £61.2m. in 1950-51 and £88.6m. in 1952-53. On the other hand, apart from the abnormal wartime year 1943-44, the percentage of expenditure on the provision of goods and services to gross national product remained practically constant from 1938-39 to 1949-50. It dropped sharply in 1950-51, being 10.1 per cent in 1938-39, 10.3 per cent in 1949-50, and 8.8 per cent in 1950-51, but rose to the exceptionally high level of 12.0 per cent in 1952-53. This fall and rise was in part due to the fact that the rapid increase in incomes from 1949-50 to 1950-51 did not have its full effect on taxation until 1951-52. Transfers to private income by way of monetary social security benefits and interest on the public debt increased steadily from £12.4m. in 1938-39 to £56.6m. in 1949-50, while the percentage of gross national product also increased steadily from 5.4 to 10.3 per cent. This expansion was largely due to Government social legislation.

In 1950-51, however, although the actual amount of these transfers increased still further to £62.3m., the percentage to gross national product declined to 9.0 per cent. In 1951-52 and 1952-53 it increased to £68.7m. and £69.0m. respectively, while in terms of percentages of gross national product transfer payments remained relatively stable at 9.6 per cent and 9.3 per cent.

Similarly, payments by way of subsidies to keep down the cost of basic consumer goods increased from £0.6m. in 1938-39, being 0.3 per cent of the gross national product, to £14.6m. in 1949-50, 2.7 per cent of gross national product. The cost of subsidies dropped sharply to 9.4m. in 1950-51, or 1.4 per cent of gross national product, but rose again to £15m. (2.0 per cent) in 1952-53.

These transfer payments and subsidies have undoubtedly been the principal cause of the substantial increase in taxation over the fourteen years, but when their overall purpose is realized, that of re-distributing the national income among different income groups, the large increases shown are seen in their correct perspective principally as pure "transfer" items.

The balance of revenue over expenditure represents the excess after net expenditure on normal current Government activities has been allowed for. This balance is utilized for the carrying-out of necessary capital works and purchase of equipment, or for the repayment of debt. Where there is an excess of expenditure over revenue, as was the case in 1943-44, the deficit must be met by a cut in private savings in New Zealand, or a decrease in net overseas investments. It is equally true, of course, that if total Government expenditure in any one year, including expenditure on capital works, exceeds revenue for that year, this overall deficit must be met in a similar way.

GENERAL GOVERNMENT—REVENUE ACCOUNT £(million)

	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
REVENUE							
1. Taxation—							
(a) Direct—							
Income-tax	9.3	31.3	49.0	48.4	59.4	78.1	78.7
Social security taxation	5.5	13.4	29.4	31.7	35.8	43.6	45.5
National security tax		19.2					
Land-tax	1.1	1.0	0.9	1.0	1.0	1.1	1.3
Death duties	1.8	4.5	6.0	5.7	7.3	8.1	8.8
Other	0.1	0.2					
Totals	17.8	69.6	85.3	86.8	103.5	131.0	134.3
(b) Indirect—							
Sales tax	3.6	12.7	14.1	14.8	16.8	21.8	22.0
Customs and excise duty	11.7	13.9	23.7	26.3	28.6	37.9	32.7
Motor-vehicles taxation	3.1	1.7	3.6	3.6	4.0	4.6	4.9
Other	1.6	2.9	3.7	4.1	5.0	5.2	5.9
Totals	20.0	31.2	45.1	48.8	54.4	69.6	65.5
2. Totals, all taxation	37.8	100.8	130.4	135.6	157.9	200.5	199.8
3. Trading income	5.4	13.3	8.4	9.6	12.3	14.8	13.7
4. Less direct taxation paid by trading Departments	-0.2	-1.0	-1.3	-1.5	-1.5	-1.9	-2.4
Totals	5.2	12.3	7.1	8.1	10.7	12.9	11.3
5. Lump-sum payments from United Kingdom Government		3.0					
6. Total revenue	43.0	116.1	137.5	143.7	168.6	213.4	211.1
7. Cost of Provision of Good and Services—							
EXPENDITURE							
(a) General Administration	2.2	1.8	7.9	9.3	10.7	14.3†	13.6†
(b) Interest on General Government debt paid overseas	6.8	6.6	3.3	2.7	2.5	2.5	2.5
(c) Law and order	0.8	0.8	1.3	1.8	1.5	1.7	1.4
(d) Development of primary and secondary industries	0.7	1.3	4.0	4.9	5.0	5.3	7.1
Social Services—							
(e) Health	0.8	1.4	2.8	3.4	3.6	4.3	4.4
(f) Education	4.2	4.8	9.2	11.0	12.3	14.6	15.7
(g) Non-monetary social security benefits	4.5	4.5	7.9	8.5	8.7	9.4	10.4
(h) Other social services	3.3	0.4	0.4	0.6	0.6	0.9	1.0
(i) Defence and war	2.1	131.2	8.0	8.2	10.6	17.7	25.7
(j) Rehabilitation	0.4	2.4	2.1	2.1	1.5	1.5	1.2
(k) Maintenance of public works and services	2.3	1.2	4.0	4.0	3.6	5.2	5.6
Totals	23.2	154.4	51.2	56.5	61.2	77.4	88.6
8. Monetary social security benefits and pensions	7.7	15.8	39.5	42.6	47.5	53.5	54.2
9. Interest on General Government debt paid in New Zealand	4.7	9.0	13.3	14.0	14.8	15.2	14.8
Totals	12.4	24.8	52.8	56.6	62.3	68.7	69.0
10. Transfers to Local Authorities—							
(a) Hospital Boards	0.9	1.1	4.9	5.0	6.3	8.3	9.6
(b) Other	4.4	1.6	3.3	3.6	2.8	3.6	2.9
Totals	5.3	2.7	8.2	8.6	9.1	11.9	12.5
11. Subsidies—							
(a) Shipping, transport, and incidental		0.2	2.6	1.6	0.1	1.1	0.5
(b) Coal production and distribution		0.5	1.9	2.9	0.5		0.1
(c) Primary production	0.4	0.8	0.3	0.5	0.4	0.6	0.2
(d) Essential clothing and foodstuffs	0.2	1.6	6.6	9.6	7.4	12.2	12.6
(e) Miscellaneous			0.1		0.1	0.7	0.9
(f) Housing suspensory loans						1.0	0.7
Totals	0.6	3.1	11.5	14.6	9.4	15.2	15.0
12. Total expenditure	41.5	185.0	123.7	136.3	142.0	173.2	185.1
13. Balance of revenue over expenditure	1.5	-68.9	13.8	7.4	26.6	40.2	26.0
14. Total expenditure plus or minus revenue balances	43.0	116.1	137.5	143.7	168.6	213.4	211.1

* Provisional.

† Includes £1m. contribution under Colombo Plan in each year.

Local Authorities.—The revenue account of local authorities is in all respects similar to that of the General Government and has been obtained by an analysis of the accounts of all local authorities, including Hospital Boards. The limitations in the scope of local-government activities as compared with those of the General Government do not call for a detailed analysis of expenditure items, and therefore current expenditure on the provision of goods and services by local authorities is shown as a single total.

LOCAL AUTHORITIES—REVENUE ACCOUNT (£million)

—	1938-39	1943-44	1948-49	1949-50	1950-51	1951-52	1952-53*
REVENUE							
(a) Direct: Rates	6.2	6.9	9.5	10.3	11.1	12.5	13.2
(b) Indirect: Licence fees	0.6	0.6	1.0	1.1	1.2	1.4	1.5
Totals	6.8	7.5	10.5	11.4	12.3	13.9	14.7
16. Trading income	3.3	4.6	3.7	3.8	3.6	2.9	3.2
17. Grants from General Government	5.3	2.7	8.2	8.6	9.1	11.9	12.5
18. Total revenue	15.4	14.8	22.4	23.8	25.0	28.7	30.4
19. Cost of provision of goods and services	8.4	6.6	12.8	14.6	16.5	20.0	23.5
20. Interest on local authority debt paid in New Zealand	2.3	2.3	2.2	2.2	2.1	2.2	2.3
21. Total expenditure	10.7	8.9	15.0	16.8	18.6	22.2	24.7
22. Balance of revenue over expenditure	4.7	5.9	7.4	7.0	6.4	6.5	5.7
23. Total expenditure (plus revenue balances)	15.4	14.8	22.4	23.8	25.0	28.7	30.4
* Provisional.							

Reconciliation Statement.—The reconciliation given below indicates the fundamental differences between the analysis of the public accounts made for national-income purposes and that published in parliamentary paper B-1 [P. 1].

RECONCILIATION BETWEEN BALANCE OF REVENUE OVER EXPENDITURE PER NATIONAL INCOME ACCOUNTS AND COMBINED SURPLUS CONSOLIDATED FUND AND SOCIAL SECURITY FUND, 1952-53 (PROVISIONAL)

24. Balance of revenue over current expenditure, per National Income Accounts (item 13, Table on page 662)	£m.
	+26.0
Less—	
25. Amortization of debt charged to Consolidated Fund	-6.6
26. Transfer from Consolidated Fund to Defence Fund	-0.1
27. Capital expenditure charged to Consolidated Fund	-5.7
28. Transfer from Consolidated Fund to Public Works Account	-6.0
Plus—	
29. Current expenditure from Public Works Account (transfers to local authorities)	+0.5
Adjustment for Trading Income—	
30. Profits of trading Departments	-13.7
31. Plus transfers of profits to Consolidated Fund	+9.7
Total	+4.1
32. Consolidated Fund surplus, 1952-53	3.3
33. Social Security Fund surplus, 1952-53	0.8
Total Surplus Consolidated Fund and Social Security Fund as shown in the Public Accounts B-1 [P. 1]	4.1

For the reconciliation for earlier years between the balances of revenue over expenditure and the Budget surpluses (or deficits), reference should be made to the previous issues of the Year-Book.

Firstly, it has been necessary to bring into account revenue and expenditure received and incurred by the Government other than that recorded within the limited confines of the Consolidated Fund. From 1950-51 the only other accounts involved were the Social Security Fund and the Public Works Account, the remaining accounts used in earlier years either having been closed or the amounts involved were negligible.

Secondly, adjustments have been made to Consolidated Fund revenue and expenditure. Capital receipts and payments (purchase or construction of capital assets and amortization of debt) have been eliminated. Actual profits of trading Departments earned in a given year are brought into account and transfers by them to the Consolidated Fund deducted. This ensures that only profits for the year in question are included. Transfers to the Consolidated Fund do not necessarily relate to profits earned in the year in which the transfer is made, nor do they cover total profits of all trading Departments.

The consolidated balance of total Government revenue and expenditure represents the balance, after payment for all current items, utilized for capital expenditure of all kinds both by Government administrative Departments and Government trading undertakings. Because of the strictly "cash" basis on which the public accounts are constructed, however, no allowance has been made for depreciation on the national assets, other than those administered by the trading Departments, before arriving at the revenue balance. To this extent, therefore, it represents an overstatement of the true balance on current account.

THE DISTRIBUTION OF PRIVATE INCOME.—A detailed survey of private income and outlay has already been given (refer table on page 658) for the years 1938-39, 1943-44, and 1948-49 to 1952-53. An analysis of private income, in less comprehensive form, is given below for 1938-39 and for each of the years 1943-44 to 1952-53. Group totals are shown in value form, as percentages of private income, and as index numbers on base 1938-39 (= 100).

PRIVATE INCOME

—	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53*
Salary and wage payments (1)—											
£m.	111.1	140.4	147.0	161.8	186.3	210.1	226.9	251.4	278.8	325.2	345.7
Per cent	55.6	42.4	43.3	44.9	47.0	47.2	49.1	47.7	42.5	48.5	49.3
Index No.	100	126	132	146	168	189	204	226	251	293	311
Pay and allowances of Armed Forces (2)—											
£m.	0.9	57.9	48.3	40.0	8.2	6.4	4.3	4.6	6.1	9.5	12.0
Per cent	0.4	17.5	14.2	11.1	2.1	1.4	0.9	0.9	0.9	1.4	1.7
Social security benefits and pensions (22)—											
£m.	7.7	15.8	17.6	20.9	34.8	37.6	39.5	42.6	47.5	53.5	54.2
Per cent	3.9	4.8	5.2	5.8	8.8	8.5	8.5	8.1	7.3	8.0	7.7
Index No.	100	205	229	271	452	488	513	553	617	695	704
Rental value of owner-occupied houses (3)—											
£m.	6.2	8.3	8.8	9.1	9.3	9.6	10.5	11.2	13.3	15.1	16.1
Per cent	3.1	2.5	2.6	2.5	2.3	2.2	2.3	2.1	2.0	2.2	2.3
Index No.	100	134	142	147	150	155	169	181	215	244	260
Other personal income ¹ (excluding company dividends) (4)—											
£m.	54.3	72.1	79.6	87.1	109.8	128.7	133.4	158.8	240.0	191.7	195.8
Per cent	27.2	21.8	23.5	24.1	27.7	28.9	28.9	30.2	36.6	28.6	27.9
Index No.	100	133	147	160	202	237	246	292	442	353	361
Company income (before distribution) (5)—											
£m.	19.5	36.4	37.9	41.7	47.9	52.4	47.8	57.8	70.3	75.6	76.9
Per cent	9.8	11.0	11.2	11.6	12.1	11.8	10.3	11.0	10.7	11.3	11.0
* Provisional.											

† Includes changes in Primary Produce Stabilization Accounts and wool retention moneys.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

—	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53*
Index No.	100	187	194	214	246	269	245	296	361	388	394
Private income (26)—											
£m.	199.8	330.9	339.1	360.6	396.3	444.9	462.4	526.5	656.1	670.5	700.6
Per cent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Index No.	100	166	170	180	198	223	231	264	328	336	351

* Provisional.

† Includes changes in Primary Produce Stabilization Accounts and wool retention moneys.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

The distribution of private income, as indicated by this table, is affected to a considerable extent by the movement in the item "pay and allowances of the Armed Forces" over the period. In 1943-44, the peak war year, 17.5 per cent of total private income was received in this form. Its effects on aggregate "salary and wage payments" of civilians, which decreased as a percentage of private income from 55.6 per cent in 1938-39 to 42.4 per cent in 1943-44, and "other personal income," which decreased similarly from 27.2 per cent over the same years, can be clearly seen. It is usual to regard pay and allowances of the Armed Forces as similar to salary and wage payments, but if this is done it has the effect of temporarily inflating "salary and wage payments" at the expense of "other personal income", since many Armed Forces personnel are not salary and wage-earners as civilians. This can lead to misleading results where a series of years covering a war and post-war period is being considered and consequently care must be used in interpreting the figures shown. Ignoring pay and allowances of the Armed Forces and considering only the post-war period, the percentage of salary and wages to private income was exceptionally low in 1950-51 (42.5 per cent), but rose again to 48.5 per cent in 1951-52 and 49.3 per cent in 1952-53. This brought it back to an average level for post-war years though still below the only recorded pre-war percentage (55.6 per cent in 1938-39).

Another item which has played an important part in altering the distribution of private income is "social security benefits and pensions", which, as a percentage of private income increased from 3.9 per cent in 1938-39 to a peak of 8.8 per cent in 1946-47. Since then it has remained a little above 8 per cent, except in 1950-51 and 1952-53, when it fell to 7.3 and 7.7 per cent respectively. If these payments are considered as supplements to normal earned incomes then they have the effect of reducing the difference between the pre-war and post-war proportions going to salary and wage earners, a major portion of social security benefits and pensions being received by this group. However, such adjustments go past the present analysis of private income, which is a study of the distribution of "factor incomes" rather than the distribution of incomes received by various income-earning groups—i.e., "salary and wage payments" not "income of salary and wage earners"—are being considered here.

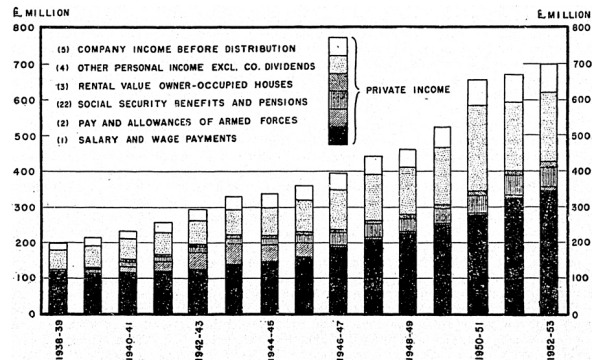
Company incomes which in 1947-48 stood at over two and a half times their 1938-39 level actually decreased in 1948-49 from £52.4m. to £47.8m. Since then the figure has risen each year to reach £75.6m. in 1951-52 and £76.9m. in 1952-53. Expressed as a percentage of private income, company income has fluctuated less than any other item.

On the other hand, other personal incomes, which rose very sharply in 1950-51 owing to the exceptionally large increase in farmers' incomes, dropped by over £48m. in 1951-52. The percentage of other personal income to total private income was 36.6 per cent in 1950-51; in 1951-52 the percentage fell to an average peace-time level of 28.6 per cent, with a further decline to 27.9 per cent in 1952-53.

The percentage increase in other personal incomes over the 15-year period was 261 per cent, as compared with 294 per cent in company incomes and 211 per cent in salary and wage payments.

Total private income has increased from £200m. in 1938-39 to £701m. in 1952-53 (251 per cent).

Movements in private income over the period 1938-39 to 1952-53 are illustrated in the graph below.



NOTE.—The numbers in parentheses before the items refer to those in the tables given on pages 657-659.

The Effects of Taxation on the Distribution of Private Income.—The redistributive effects of taxation on private income, especially by the use of steeply progressive taxation rates, can be very great. Before examining the effects on New Zealand private income, however, it is of value to compare total taxation with private income and obtain some idea of the extent to which private income is affected by this transfer to the State.

The following table shows total taxation expressed as a percentage of private income for each of the years 1938-39 and 1943-44 to 1952-53.

PRIVATE INCOME AND TOTAL TAXATION (£million)

—	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Private income (26)	199.8	330.9	339.1	360.6	396.3	444.9	462.4	526.5	656.1	670.5	700.6
Direct taxation (28) ¹	23.8	75.5	81.2	85.0	78.2	77.4	93.6	95.6	113.1	141.6	145.1
Indirect taxation (10)	20.6	31.8	34.0	37.3	43.0	53.0	46.1	49.8	55.6	71.0	67.0
Less subsidies (11)	-0.6	-3.1	-4.6	-6.6	-11.8	-13.6	-11.5	-14.6	-9.4	-15.2	-15.0
Total taxation less subsidies ¹	43.8	104.2	110.6	115.7	109.4	116.8	128.2	130.8	159.3	197.4	197.1
Total taxation as a percentage of private income	21.9	31.5	32.6	32.1	27.6	26.3	27.7	24.8	24.3	29.4	28.1

* Provisional.

† Excluding direct taxes paid by Government trading departments.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

Subsidies in this table are treated as negative indirect taxes and deducted from total taxation. Taxation less subsidies as a percentage of private income increased steadily throughout the war years from 21.9 per cent in 1938-39 to a peak of 32.6 per cent in 1944-45. Immediately following the war, with the reduction in the war loading on income tax from 33.9 per cent to 15 per cent, and the removal of the national security charge, the percentage decreased steadily to 26.3 per cent of private income in 1947-48, but in the next three years fluctuated about this level. These fluctuations can largely be attributed to the fact that total taxation in any one year represents actual taxation receipts for that year. In the case of certain taxes—e.g., income tax—receipts for one year are in respect of income earned in the previous year. To this extent income earned is compared with tax paid from that income, and not with tax paid in respect of that income. This in 1948-49, although private income showed only a very small increase, taxation receipts increased considerably, due to increased revenue from income tax assessed on 1947-48 incomes which were substantially higher than the 1946-47 level; the result was that the percentage of taxation less subsidies to private income rose by 1.4 per cent to 27.7 per cent.

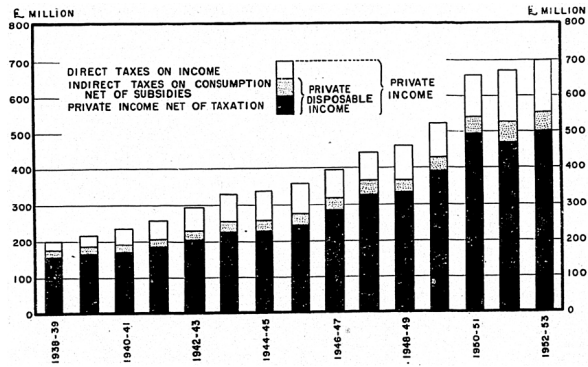
In 1949-50, when private income showed a considerable increase as compared with 1948-49, the increase in taxation (mainly assessed on income in 1948-49, when company income, a major source of taxation, showed a fall) is compared with a proportionately greater increased private income total. The result is a drop in the percentage to the relatively low figure of 24.8 per cent.

In 1950-51 there was an exceptionally rapid rise of private income owing to high wool prices. Taxation on the other hand was based mainly on incomes before the wool prices rose. This, combined with some concessions in tax rates, brought the percentage to its lowest post-war level of 24.3 per cent. On the other hand, in 1951-52 taxation receipts showed a substantial increase on account of the 1950-51 high wool prices, whereas some private incomes

were reduced due to the lower prices in 1951-52. As a result the percentage of taxation to private income was higher than for any year since 1945-46. The latest year has been affected to a lesser extent by abnormal income fluctuations, and taxation as a percentage of private income has declined to 28.1 per cent.

Included in both income and taxation figures in the preceding table are certain transfer payments from the private sector to Government as taxation, and from the Government back to the private sector as social security benefits, pensions, and interest on the public debt. Taxation raised for such purposes is not a true indication of the contribution by the private sector as a whole to the cost of Government services. Therefore, in the next table such transfer items have been eliminated both from taxation and from incomes, the remainders then being compared to give the true picture of the real contribution made to the State from private income.

The accompanying diagram shows private income and its relation to taxation.



The payment of non-monetary social security benefits also has the effect of disturbing the comparison between taxation and private income in the years before and after their introduction. The aggregate of private income before taxation is not affected by the change, the only difference being that former direct payments for services rendered by doctors, etc., are now largely paid by the Government from the proceeds of taxation. For the purposes of the following table, payments of this nature by the Government are deducted from total taxation before obtaining a true comparison with total private income.

PRIVATE INCOME AND TOTAL TAXATION (EXCLUDING TRANSFER INCOMES AND PAYMENTS) £(million)

	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Private income before tax (26)	199.8	330.9	339.1	360.6	396.3	444.9	462.4	526.5	656.1	670.5	700.6
Less transfer payments (8 + 22)	-14.7	-27.1	-30.5	-34.7	-49.9	-52.9	-55.0	-58.8	-64.4	-70.9	-71.2
Private income (excluding transfer payments)	185.1	303.8	308.6	325.9	346.4	392.0	407.4	467.7	591.7	599.6	629.4
Total taxation (less subsidies)	43.8	104.2	110.6	115.7	109.4	116.8	128.2	130.8	159.3	197.4	197.1
Less—											
Transfer payments (as above)	-14.7	-27.1	-30.5	-34.7	-49.9	-52.9	-55.0	-58.8	-64.4	-70.9	-71.2
Non-monetary social security benefits ¹		-4.5	-5.0	-5.6	-6.2	-7.0	-7.9	-8.5	-8.7	-9.4	-10.4
Total taxation (excluding transfer payments and subsidies)	29.1	72.6	75.1	75.4	53.3	56.9	65.3	63.5	86.2	117.1	115.5
Total taxation as a percentage of private income (excluding transfer payments)	15.7	23.9	24.3	23.1	15.4	14.5	16.0	13.6	14.6	19.5	18.4

* Provisional.
¹ Excluding mental hospital benefits.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

The incidence of direct taxation on the various "factor income" groups comprising private income is shown in the next table. The balance in each case represents disposable income and the deduction of direct taxation from private income gives the concept of private disposable income.

PRIVATE INCOME AND INCIDENCE OF DIRECT TAXATION £(million)

	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Salary and wage payments (1)	111.1	140.4	147.0	161.8	186.3	210.1	226.9	251.4	278.8	325.2	345.7
Less direct taxes	4.9	23.4	24.3	26.6	23.8	24.7	26.5	32.5	36.8	37.4	37.4
Net totals	106.2	117.0	122.7	135.2	162.5	186.5	202.2	224.9	246.3	288.4	308.3
Pay and allowances of Armed Forces (2)	0.9	57.9	48.3	40.0	8.2	6.4	4.3	4.6	6.1	9.5	12.0
Less direct taxes		3.5	3.8	3.3	1.2	0.4	0.5	0.5	0.6	0.9	1.1
Net totals	0.9	54.4	44.5	36.7	7.0	6.0	3.8	4.1	5.5	8.6	10.9
Social security benefits and pensions (22)	7.7	15.8	17.6	20.9	34.8	37.6	39.5	42.6	47.5	53.5	54.2
Other personal income (including rental value of owner-occupied houses) (3 + 4)	60.5	80.4	88.4	96.2	119.1	138.3	143.9	170.0	253.3	206.8	211.9
Less direct taxes	11.8	25.9	26.4	29.6	29.2	31.0	37.9	39.5	47.9	66.2	66.5
Net totals	48.7	54.5	62.0	66.6	89.9	107.3	106.0	130.5	205.4	140.6	145.4
Company income (before distribution) (5)	19.5	36.4	37.9	41.7	47.9	52.4	47.8	57.8	70.3	75.6	76.9
Less direct taxes	7.1	22.7	26.6	25.5	24.0	22.5	30.5	29.1	32.1	37.7	40.0
Net totals	12.4	13.7	11.3	16.2	23.9	29.9	17.3	28.7	38.2	37.9	36.9
Private income (26)	199.8	330.9	339.1	360.6	396.3	444.9	462.4	526.5	656.1	670.5	700.6
Less direct taxes (28) ¹	23.8	75.5	81.2	85.0	78.2	77.4	93.6	95.6	113.1	141.6	145.1
Private disposable income	176.0	255.4	257.9	275.6	318.1	367.5	368.8	430.9	543.0	528.9	555.5

* Provisional.
¹ Excludes direct taxes on Government trading profits.

NOTE.—The numbers in parentheses after the items refer to items in the tables given on pages 657-659.

The effect of direct taxation in altering the distribution of the factor incomes is shown quite clearly by a comparison of the table given next with the table on page 664. Both show similar detail, the table presented earlier giving private income before tax and the table following after tax, expressed in value form, as percentages of total private disposable income, and as index numbers on base 1938-39 (= 100). For the purposes of the latter table it is necessary to group "rental value of owner-occupied houses" with "other personal income."

PRIVATE DISPOSABLE INCOME

	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
—											

	1938-39	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Salary and wage payments—											
£m.	106.2	117.0	122.7	135.2	162.5	186.5	202.2	224.9	246.3	288.4	308.3
Per cent	60.3	45.8	47.6	49.1	51.1	50.7	54.8	52.2	43.4	54.5	55.5
Index No.	100	110	116	127	153	176	190	212	232	272	290
Pay and allowances of Armed Forces—											
£m.	0.9	54.4	44.5	36.7	7.0	6.0	3.8	4.1	5.5	8.6	10.9
Per cent	0.5	21.3	17.3	13.3	2.2	1.6	1.0	1.0	1.0	1.6	2.0
Social security benefits and pensions—											
£m.	7.7	15.8	17.6	20.9	34.8	37.6	39.5	42.6	47.5	53.5	54.2
Per cent	4.4	6.2	6.8	7.6	11.0	10.2	10.7	9.9	8.7	10.1	9.8
Index No.	100	205	229	271	452	488	513	553	617	695	704
Other personal income (including rental value of owner-occupied houses)—											
£m.	48.7	54.5	62.0	66.6	89.9	107.3	106.0	130.5	205.4	140.6	145.4
Per cent	27.7	21.3	24.0	14.7	28.3	29.2	28.7	30.3	37.8	26.6	26.2
Index No.	100	112	127	137	185	220	218	268	422	289	299
Company income (before distribution)—											
£m.	12.4	13.7	11.3	16.2	23.9	29.9	17.3	28.7	38.2	37.9	36.9
Per cent	7.0	5.4	4.4	5.9	7.5	8.1	4.7	6.7	7.0	7.2	6.6
Index No.	100	110	91	131	193	241	140	231	308	306	298
Private disposable income—											
£m.	175.9	255.4	258.1	275.6	318.1	367.3	368.8	430.9	543.0	528.9	555.7
Per cent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Index No.	100	145	147	157	181	209	210	245	309	301	316

* Provisional.

NOTE.—The value totals given in this table are those derived in the table given above.

Reviewing the period given in these tables, the percentage increases in incomes before deduction of taxation compared with those after deduction (shown in parentheses) are as follows: salary and wages, 211 (190) per cent; other personal incomes, 261 (199) per cent; and company incomes, 294 (198) per cent.

Whereas "salary and wage payments" (including pay and allowances of the Armed Forces) formed 51.0 per cent of private income before tax in 1952-53, "other personal income" (including rental value of owner-occupied houses) 30.2 per cent, and "company income" 11.0 per cent, these proportions changed to 57.5 per cent, 26.2 per cent, and 6.6 per cent respectively after deduction of direct taxes, and expressed as a percentage of private disposable income. A factor of some importance which affects the comparability of these figures is the introduction of non-monetary social security benefits over the period. Taxation taken to pay for these benefits reduces private disposable income, but at the same time this income is indirectly increased by a reduction in private expenditure on the items covered by the benefits. It is not feasible to make any allowance for this factor at this point, but it should be borne in mind.

29 B—INDUSTRY SECTOR ACCOUNTS

INTRODUCTION.—The most striking advance made in recent years in the presentation of economic statistics has been the growth, in most countries, of some form of social accounting. It involves a comprehensive and detailed accounting of the nation's economic transactions. An analysis of this nature provides a background of statistical data indispensable to a proper understanding of current economic trends and, perhaps even more important, it enables informed estimates of probable future trends to be made. Full information of the nature and a proposed schemata for the construction of social accounts appears in a publication by the United Nations Organization, wherein social accounting is briefly defined as follows:

"Instead of seeking to build up a single total, such as the national income, an investigation is first made of the classification of accounting entities, of the types of accounts that they keep, and of the transactions into which they enter. In this way all the transacting entities of an economic system are classified into broad sectors such as productive enterprises, financial intermediaries, and final consumers, and a series of accounts for each of these sectors is set up, in which the separate entries represent economically distinct categories of transactions, actual or imputed, between accounts. The national income and other similar aggregates are obtained from the system by selecting and combining the constituent entries in the accounts".

In the 1953 Year-Book accounts of three industrial sectors, Farming, Manufacturing, and Building and Construction, were published; the present issue enlarges the field by the publication "of the following four sectors: Mining, Forestry and Logging and Other Primary (which together with the Farming Sector complete that portion of the economy commonly called "Primary Industry"), and the Transport and Communications Industry Sector. Work on other accounts is being continued.

The present programme of work aims at showing a dissection of the economy into eighteen sectors based on the United Nations International Standard Industrial Classification. The following list shows the accounts which will be published:

1. Farming
2. Forestry and Logging
3. Other Primary
4. Mining
5. Manufacturing—
 - a. Primary Produce Processing Industries
 - b. Other Manufacturing
6. Building and Construction
7. Public Utilities (Electricity, Gas, Water, and Sanitary Services)
8. Transportation and Communications
9. Wholesale and Retail Trade
10. Banking and Insurance
11. Ownership of Dwellings
12. Government—
 - a. Administration
 - b. Defence
13. Services
14. Households
15. Rest of the World
16. Capital Account

In setting out the sector accounts the aim is to show—

1. On the income side, an analysis of the sales of goods and services produced by the sector according to whether they are sold for personal consumption, transferred to other industries for use as materials for further production, exported, or used for capital investment.

2. On the expenditure side, a split-up of this revenue to show the return to the factors of production (i.e., the earnings of labour, management, enterprise, and capital) which assisted in producing the goods and services, the cost and sources of materials operated on, the cost of services provided by the "servicing" sectors of the economy, and the amounts set aside as depreciation allowances.

Other items such as indirect taxation, subsidies, and changes in stocks fit into this approach quite readily, and are shown separately, and are items in the national income estimates.

Each new sector account which is presented provides an analysis of a further portion of New Zealand's national product. It shows what proportion of the total of national production has been contributed by the industry, and indicates for that industry the relationship between its total output and various income and expenditure items which appear in the national income and national expenditure estimates. The expenditure side shows the source of some of the factor incomes which appear in the analysis of National Income in the table on page 657, and on the revenue side the destination of some of the expenditure items which appear in the same table.

When all sector accounts are completed, it will be possible to prepare a national product table side by side with those given for national income and national expenditure, but broken up to show the amount contributed to the national product by each industry sector. More important, it will be possible by tracing income and expenditure through the sector accounts to follow much more closely the inter-relationship between the various income and expenditure items given in the table on page 657.

Out of a net national output (net national income at factor cost) of £617m. in 1951-52, £389.5m. is accounted for in the following way:

INDUSTRY SECTOR	£m.
Farming	157.0
Forestry and logging	4.8
Mining	5.2
Other Primary	2.4
Manufacturing	138.1
Building and Construction	32.3
Transport and Communications	49.7
Total	389.5

The difference between this figure and net national income at factor cost—viz., £227m.—remains to be accounted for by the construction of further sector accounts.

Government Activities.—It should be noted that the General Government and local authorities account (page 658) and the private income and outlay account (page 658) are compiled on a different basis from that used for the industry sector accounts. The purpose of the subdivision between the Government and private sectors is to distinguish all Government current financial transactions from those of private enterprise and of households. The Government account thus relates to all current Government activities except those of a capital nature, irrespective of whether they relate to farming, to manufacturing, or to the provision of social or administrative services, etc. On the other hand, the industry sector accounts relate to all farming, or manufacturing, or building and construction activities, irrespective of whether they are carried out by Government or by private enterprise. When all industry sector accounts are completed, the whole range of Government activities will be accounted for in one or other of them. For this purpose the main function of Government, which can be taken as the provision of administrative and social services, will be regarded as a servicing industry, and will form a distinguishable sector similar to other servicing industries, such as transport or wholesale and retail trade. The figures shown in this Government administrative sector account (including local authorities) will exclude those portions of Government activities which can be regarded as farming, manufacturing, building and construction, transport, etc.

Companies.—Company activities are included in the sector accounts of the industries with which they are concerned, in the same way as Government activities.

Salary and Wages.—Some confusion may arise in relating salary and wages, as shown in the sector accounts, to the total of salary and wage payments, which forms item 1 on page 657. In the sector accounts it is considered advisable, in order to obtain a salary and wage payout which is comparable with the labour force engaged in the industry, to include an imputed amount for the equivalent salary and wages earned by the working proprietors. This amount is shown separately from the actual salary and wage payments made to employees because it is an arbitrary assessment. The purpose of the assessment is, of course, to separate out from the balance of income which remains after payment of expenses that portion which can be regarded as being a reward for the proprietors' own work, and is not therefore a true surplus or profit. The effect is to reduce the amount shown as surplus in the sector accounts. The salary and wage total given in item 1 will be roughly equivalent to the sum of the amounts shown as salary and wages paid to employees in the various sector accounts. The equivalence is not exact because part of the labour reward of working proprietors is drawn regularly in the same manner as salary and wages, and therefore cannot be distinguished from salary and wages in preparing the national income estimates.

Surplus.—In each sector account the surplus as shown includes rent and interest as well as what is usually understood as profit. On the other hand, as discussed above, an attempt is made to exclude the salary or wage equivalent of the work done by working proprietors. This surplus represents gross receipts, plus increases in stocks, less labour rewards, less costs of materials and services used in production, and less depreciation.

Sector Accounts are Provisional.—The relationship between sector account items and national income totals has already been referred to, and it should be understood that in this stage the sector accounts are provisional and have not been reconciled with national income estimates. This applies both to that portion of the accounts which shows "net output at factor cost" and to all other items which show gross transactions with other sectors of the economy.

It must be emphasized that substantial revisions must be expected in future. There are several reasons for this. The most important of these is that in the past year the Census and Statistics Department has changed over to the International Standard Industrial Classification, with the result that certain industries will have to be transferred from one sector to another. To quote an instance, electricity generation and distribution and gas supply, which now form part of the Manufacturing Industry Sector, will be transferred to Public Utilities. The same applies to one or two servicing industries now included in the Manufacturing Sector. Furthermore, it is intended—as shown earlier in the introductory notes—to re-institute a division between manufacturing industries processing farm products and other manufacturing industries. Also, as further accounts are being completed—estimates for each being based on statistical material derived from varying sources—differences and errors of estimation are bound to arise which require revision of methods.

Sector Accounts are a Full Coverage of the Industry.—As the sector accounts, when complete, are to cover the whole of the national product, it is obvious that each sector account must cover the whole of an industry. Thus the Manufacturing Industry Sector Account includes estimated outputs, salaries and wages, sales, etc., of the small manufacturing units which are not covered by the factory production or other statistical collections, but nevertheless form part of the manufacturing industry. The accounts for the other sectors are equally wide in their coverage.

The importance of publishing statistics which take in the whole of each industry can be seen when it is realized that the full range of sector accounts will cover all activities of New Zealand's labour force, and will provide an industry by industry break-up of all salary and wage payments and other incomes of factors of production. In addition, they will show the source of all goods and services bought for consumption, for use as capital equipment, or as raw materials in producing other goods and services.

The sector accounts so far completed appear on the following pages. It will be noticed that they provide a linked set of accounts, the sales of one sector forming part of the purchases of another sector. However, all sales do not reappear as purchases in the tables because some of the sector accounts cannot yet be published. Moreover, the amounts shown as purchases by one sector are usually greater than the corresponding sales of another sector because of the charges due to transport and other distribution expenses and stock accumulations (or disposals) in the Retail and Wholesale Sectors.

FARMING INDUSTRY SECTOR.—Apart from the points mentioned in the preceding paragraphs, it should be observed that this sector includes the Primary Produce Stabilization Accounts and Wool Retention Accounts. Thus increases in balances in those accounts are regarded in the sector account as farming income.

INCOME AND EXPENDITURE ACCOUNT

£(million)

—	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of goods—					
(a) Exports (unprocessed)	27.6	32.6	41.3	73.1	83.1
(b) To Farming Sector	3.2	3.4	3.9	4.5	5.3
(c) To Manufacturing Sector*	96.3	101.4	111.8	136.1	127.3
(d) To Household Sector	17.5	20.9	23.4	28.2	35.6
2. Subsidies received	1.2	2.1	2.4	1.8	2.8
3. Changes in stocks	+2.1	+0.8	+5.7	+25.6	-19.7
4. Gross value of products	147.9	161.2	188.5	269.3	234.4
EXPENDITURE (COSTS OF PRODUCTION)					
5. Salaries and wages—					
(a) Employees	27.7	28.8	30.4	34.4	39.8
(b) Working proprietors	24.9	27.1	29.5	32.2	37.1
6. Surplus	56.0	59.8	77.2	144.1	80.1
7. Net output at factor cost	108.6	115.7	137.1	210.7	157.0
8. Cost of materials and services—					
(a) Imports	6.5	7.7	8.6	9.6	14.6
(b) From Farming Sector	3.4	3.6	4.2	4.8	5.7
(c) From Manufacturing Sector	16.8	20.5	23.8	26.1	36.0
(d) From Other Primary Sectors	0.9	1.2	1.2	1.4	1.7
(e) From other sectors	8.1	8.4	8.9	10.6	11.9
9. Depreciation	3.6	4.1	4.7	6.1	7.5
* Including goods for export after processing.					

—	1947-48	1948-49	1949-50	1950-51	1951-52
10. Total cost of production	147.9	161.2	188.5	269.3	234.4
* Including goods for export after processing.					

FORESTRY AND LOGGING INDUSTRY SECTOR.—This account covers the logging and hauling operations of sawmills and independent contractors, planting and tending of afforestation companies, and the New Zealand Forest Service, as well as the general administration of that Department. Further processing of cut logs is excluded from this sector.

INCOME AND EXPENDITURE ACCOUNT

£(million)

—	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of goods—					
(a) To Manufacturing Sector	3.7	4.0	4.7	5.5	5.5
(b) To Farming Sector	0.3	0.4	0.5	0.6	0.7
(c) To Mining Sector	0.1	0.1	0.1	0.1	0.1
(d) To Household Sector	0.2	0.3	0.3	0.3	0.4
2. Capital goods produced	0.5	0.7	0.9	0.8	1.0
3. Charge on General Government revenue	0.2	0.1	0.1	0.2	0.2
4. Gross value of products	5.0	5.6	6.6	7.5	7.9
EXPENDITURE (COSTS OF PRODUCTION)					
5. Salaries and wages—					
(a) Employees	2.2	2.5	2.9	3.1	3.4
(b) Working proprietors	0.3	0.3	0.4	0.4	0.4
6. Surplus	0.6	0.6	0.8	1.0	1.0
7. Net output at factor cost	3.1	3.5	4.1	4.5	4.8
8. Cost of materials and services—					
(a) Imports	0.3	0.4	0.4	0.5	0.5
(b) From Manufacturing Sector	0.5	0.6	0.8	0.8	0.9
(c) From Tertiary Sectors	0.9	0.9	0.9	1.2	1.3
9. Depreciation	0.2	0.2	0.4	0.4	0.4
10. Total cost of production	5.0	5.6	6.6	7.5	7.9

MINING INDUSTRY SECTOR.—The account includes all mining operations (coal, gold, etc.) and quarrying, whether the undertakings are owned privately or by Government and local authorities. Coal depots and other distribution units are excluded and products are valued at pithead or quarry.

INCOME AND EXPENDITURE ACCOUNT

£(million)

—	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of goods—					
(a) Exports	1.3	1.0	0.9	1.0	1.0
(b) To Manufacturing Sector	1.0	1.1	1.3	2.6	3.0
(c) To Building and Construction Sector	0.6	0.8	1.0	1.2	1.3
(d) To Public Utilities Sector	0.4	0.4	0.4	0.5	0.6
(e) To Tertiary Sectors	0.6	0.7	0.7	1.7	1.8
(f) To Household Sector	0.6	0.7	0.7	1.3	1.4
2. Changes in stocks		+0.1		-0.1	
3. Charge on General Government revenue	0.1	0.1	0.1	0.1	0.1
4. Subsidies received	1.5	1.8	2.9	0.2	
5. Gross value of products	6.1	6.7	8.0	8.5	9.2
EXPENDITURE (COSTS OF PRODUCTION)					
6. Salaries and wages—					
(a) Employees	3.6	3.8	4.0	3.9	4.0
(b) Working proprietors	0.2	0.2	0.2	0.2	0.2
7. Surplus	0.4	0.6	0.8	0.9	1.0
8. Net output at factor cost	4.2	4.6	5.0	5.0	5.2
9. Cost of materials and services—					
(a) Imports	0.3	0.3	0.6	0.7	0.8
(b) From Primary Sectors	0.1	0.1	0.2	0.2	0.2
(c) From Manufacturing Sector	0.6	0.6	0.9	1.1	1.3
(d) From Tertiary Sectors	0.3	0.4	0.5	0.6	0.7
10. Depreciation	0.6	0.7	0.8	0.9	1.0
11. Total cost of production	6.1	6.7	8.0	8.5	9.2

OTHER PRIMARY INDUSTRY SECTOR.—The Other Primary Industry Sector covers the residual economic transactions not already included in Farming, Forestry, or Mining. It represents such industries as fishing, hunting (destruction of deer), and trapping (eradication of rabbits). Operations of Rabbit Boards and Government form part of this sector. Pest destruction by farmers on their own farms and sporting pursuits are excluded unless produce is sold on the market.

INCOME AND EXPENDITURE ACCOUNT

£(million)

—	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of goods—					
(a) Exports	2.1	1.7	1.3	1.2	1.4
(b) To Manufacturing Sector	0.3	0.3	0.2	0.3	0.3
(c) To Household Sector	0.7	0.7	0.8	0.7	0.7
2. Subsidies received	0.1	0.2	0.4	0.8	0.8
3. Gross value of products	3.2	2.9	2.7	3.0	3.2
EXPENDITURE (COSTS OF PRODUCTION)					
4. Salaries and wages—					
(a) Employees	0.7	0.7	0.7	0.7	0.9
(b) Working proprietors	0.7	0.6	0.5	0.6	0.6

	1947-48	1948-49	1949-50	1950-51	1951-52
5. Surplus	1.0	0.9	0.8	0.9	0.9
6. Net output at factor cost	2.4	2.2	2.0	2.2	2.4
7. Cost of materials and services—					
(a) Imports	0.1	0.1	0.1	0.1	0.1
(b) From Manufacturing Sector	0.4	0.4	0.4	0.5	0.5
(c) From Tertiary Sectors	0.1	0.1	0.1	0.1	0.1
8. Depreciation	0.1	0.1	0.1	0.1	0.1
9. Total cost of production	3.2	2.9	2.7	3.0	3.2

MANUFACTURING INDUSTRY SECTOR.—Fuller notes were given on this sector in the 1950-51 National Income Supplement, and the importance of the primary products processing industries in the sector was indicated.

The treatment of this account follows closely that adopted previously. However, until all industries have been covered, and the totals reconciled with national income items, all the sector accounts must be regarded as provisional.

Excise duties paid on the manufacture of beer, cigarettes, and tobacco are deducted in arriving at the surplus, but no other taxation is deducted.

INCOME AND EXPENDITURE ACCOUNT

£(million)

	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of goods and services—					
(a) Exports	97.5	99.3	105.6	120.3	155.1
(b) To Farming Sector	14.3	17.4	20.0	21.7	26.8
(c) To Other Primary Sectors	1.0	1.1	1.4	1.6	1.7
(d) To Manufacturing Sector	45.4	54.5	65.4	77.6	70.0
(e) To Building and Construction Sector	19.3	22.7	25.0	27.0	30.1
(f) To Tertiary Sectors	36.5	41.7	44.4	49.6	50.9
(g) To Household Sector	107.9	125.7	132.4	163.1	187.8
2. Capital goods manufactured	17.3	21.2	24.1	29.1	32.0
3. Subsidies received	5.8	3.7	5.8	6.1	10.3
4. Change of stocks	+18.0	-31	+2.1	+6.3	-17.0
5. Gross value of products	363.0	384.2	426.2	502.4	547.7
EXPENDITURE (COSTS OF PRODUCTION)					
6. Salaries and wages—					
(a) Employees	60.2	64.0	70.4	81.4	91.9
(b) Working proprietors	4.4	4.9	5.8	5.9	6.6
7. Surplus	31.0	33.5	36.4	36.8	39.6
8. Net output at factor cost	95.6	102.4	112.6	124.1	138.1
9. Cost of materials and services—					
(a) Imported	64.9	58.8	61.7	81.8	111.6
(b) From Farming Sector	100.2	105.5	116.2	141.9	132.6
(c) From Other Primary Sectors	9.4	11.3	12.9	13.5	12.8
(d) From Manufacturing Sector	53.9	65.0	78.3	92.6	94.8
(e) From Building and Construction Sector	1.2	1.2	1.1	1.5	1.7
(f) From Tertiary Sectors	19.8	20.2	21.7	23.6	32.8
Total materials and services	249.4	262.0	291.9	354.9	386.3
10. Cost of electricity from Manufacturing Sector	1.8	2.0	2.1	1.9	1.9
11. Depreciation	6.6	7.5	8.3	9.9	9.0
12. Excise duties	9.6	10.3	11.3	11.6	12.4
13. Total cost of production	363.0	384.2	426.2	502.4	547.7

BUILDING AND CONSTRUCTION INDUSTRY SECTOR.—Besides building and construction work, repairs and maintenance of buildings, roads, bridges, etc., are included in this sector. Land development, drainage, river control, and the construction of public utilities are regarded as capital works and are included.

It should be noted that this sector relates to capital works or repairs and maintenance actually carried out during the year. The net output of the industry therefore correctly forms part of national product for the year. However, the output of the industry is not identical with gross capital formation, which may include imported capital equipment and increases in stocks.

INCOME AND EXPENDITURE ACCOUNT

£(million)

	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF PRODUCTS)					
1. Sales of services (repairs, etc.)—					
(a) To Manufacturing Sector	1.2	1.2	1.1	1.3	1.4
(b) To Tertiary Sectors	1.1	1.1	1.0	1.2	1.2
(c) To Household Sector	0.1	0.2	0.1	0.2	0.2
2. Maintenance of Government works and services	9.4	10.5	11.4	13.1	15.2
3. Capital goods produced (construction work, etc.)	41.9	49.0	56.0	61.0	74.4
4. Gross value of products	53.7	62.0	69.6	76.8	92.4
EXPENDITURE (COSTS OF PRODUCTION)					
5. Salary and wages—					
(a) Employees	14.4	15.9	17.6	19.5	21.5
(b) Working proprietors	2.7	3.0	3.4	4.0	4.6
6. Surplus	3.2	3.4	3.7	5.1	6.2
7. Net output at factor cost	20.3	22.3	24.7	28.6	32.3
8. Cost of materials and services—					
(a) Imported	5.4	6.4	8.4	7.8	13.0
(b) From Manufacturing Sector	23.7	27.9	30.8	33.3	36.7
(c) Other Primary Sectors	3.9	5.0	5.2	6.5	9.6
(d) From other sectors	0.1	0.1	0.2	0.2	0.3
9. Depreciation	0.3	0.3	0.3	0.4	0.5
10. Total cost of production	53.7	62.0	69.6	76.8	92.4

TRANSPORT AND COMMUNICATIONS INDUSTRY SECTOR.—It must be pointed out that the income side of this account has not been fully developed as yet; further research will be necessary in order to establish the value of services rendered to various other sectors. The industry includes all forms of transport, private (licensed passenger and goods services, taxis, etc.) and Government (New Zealand Railways—excluding workshops—and

the Post and Telegraph Department), coastal shipping, and air services; Harbour Boards and the waterfront industry are also part of the sector. Transport operations carried out by other industrial sectors (e.g., manufacturers', farmers', or wholesalers' vehicles) are excluded.

INCOME AND EXPENDITURE ACCOUNT

£(million)

	1947-48	1948-49	1949-50	1950-51	1951-52
INCOME (GROSS VALUE OF SERVICES)					
1. Services to households	11.8	14.2	14.4	16.8	18.5
2. Services to other sectors	48.6	51.9	56.8	61.3	69.9
3. Charge on General Government and local authority revenue	2.8	2.6	2.7	1.3	2.5
4. Gross value of services	63.1	68.6	73.9	79.4	90.9
EXPENDITURE (COSTS OF SERVICES)					
5. Salaries and wages—					
(a) Employees	28.3	31.7	34.4	37.3	42.5
(b) Working proprietors	0.7	0.7	0.8	0.8	0.9
6. Surplus	5.5	4.5	5.8	5.0	6.3
7. Net output at factor cost	34.5	36.9	40.9	43.0	49.7
8. Cost of materials and services—					
(a) Imports	9.6	10.6	10.2	11.0	13.0
(b) From Mining Sector	1.1	1.1	1.1	1.5	1.5
(c) From Manufacturing Sector	6.8	7.6	8.4	10.0	11.0
(d) From Building and Construction Sector	0.9	0.9	0.9	0.9	1.0
(e) From Public Utilities Sector	0.2	0.2	0.2	0.2	0.2
(f) From Tertiary Sectors	5.6	6.5	6.9	7.3	7.9
9. Depreciation	4.4	4.8	5.3	5.6	6.6
10. Total cost of services	63.1	68.6	73.9	79.4	90.9

29 C—BALANCE OF PAYMENTS

INTRODUCTORY.—The link between external economic transactions and the domestic economy is given by the net balance between all credits (exports and other current receipts) and all debits (imports and other current payments) and is called the balance of payments on current account. Irrespective of whether this balance is a surplus or a deficit, it evokes a corresponding movement in the country's claims or liabilities to residents of all other countries; a deficit on current account will increase this country's liabilities and decrease its claims on overseas residents, and a surplus will have the opposite effect. These capital movements can be summarized under the term of "net overseas disinvestment" and "net overseas investment" which are due to a deficit or surplus on current account respectively.

It is this net capital balance, *net overseas investment* (denoted with a minus sign in the case of a current deficit or capital disinvestment), which appears in the aggregate national income estimates (Section 29A, page 657). A current surplus or net overseas investment means in this context that a certain portion of the gross national product has been expended on or disposed of—in the same way as other portions of the gross national product are expended on private consumption, Government consumption, or the formation of new physical capital assets—to create a financial claim on nonresidents.

It should be noted that in this instance only the *net* balance was integrated into a system of national accounts. Another application of balance of payments accounts is to show gross figures—all credits and debits on current account—and allocate exports and other receipts from overseas together with imports and payments to overseas to the industry sectors concerned. The account which summarizes current sector transactions with other countries is the "Rest of the World" account, while the net balance—which is purely a change in financial claims or liabilities—finds its place in the Capital Account. Both accounts are mentioned in Section 29B, dealing with industry sector accounts.

Finally, apart from its importance within the framework of social accounting, a balance of payments account, as a record of economic transactions with other countries, is an important set of economic statistics on its own merits. As an independent presentation it shows in detail various types of payments and receipts, it concerns itself with transactions by currency areas, presents its Capital Account on a gross basis in order that various classes of capital movements can be studied in isolation, and so forth.

The Census and Statistics Department had been publishing balance of payments estimates for many years prior to the outbreak of the Second World War.* These figures, based on Customs data of merchandise trade and estimates of so-called invisibles, were approximate only. With the advent of exchange control in 1938 it would have been possible to prepare a far more exact statement, but the war interrupted all work on the estimates.

The present series of balance of payments accounts is based on the principles adopted by successive manuals published by the International Monetary Fund, and is in conformity with the methods used in most overseas countries. The statement is divided into a Current Account and Capital Account, which are described below. It will be seen that the balances on both accounts are, by definition, of the same magnitude; the Capital Account shows how the surplus or deficit on Current Account was financed.

Current Account.—In very general terms, the Current Account shows the results of the year's trading with other countries when goods as well as services are included; and a credit balance in this account indicates that more has been sold to other countries than has been bought from them, thus increasing their indebtedness to New Zealand or reducing New Zealand indebtedness to them.

* New Zealand Official Year-Book 1941, pp. 196-198.

More strictly defined, the Current Account records all transactions other than those representing changes in the international creditor-debtor position. Every attempt is made to record transactions on a gross credit-debit basis rather than on the basis of net settlements. The Current Account includes both credits and debits in respect of merchandise, services (invisibles), as well as unilateral transfers (donations), and movements in non-monetary gold which, in essence, represent net additions to gold reserves. The difference between current credits and current debits is the balance of payments surplus (deficit) on current account; it is the measure of the extent to which a country does or does not live within its current income. It is the most significant datum emerging from a balance of payments compilation.

Capital Account.—The Capital Account records all known changes in claims on, or liabilities to, the rest of the world. Of the items comprising the Capital Account, the category of Net Overseas Assets—the overseas exchange holdings of New Zealand's banking system—is most widely known and appreciated. Its importance lies in the fact that it records changes in overseas liquid resources which by their nature can be made immediately available for purposes of imports, public debt repayments, capital investments, etc. But within the confines of the balance of payments Capital Account the movement in Net Overseas Assets is only one of several other capital movements with which it forms an integral part; it is the combination of all these capital changes which must be studied in order to understand the financing of the current surplus or deficit.

Attention is drawn to the item Other Short Term Capital Movements Including Errors and Omissions, which is a balancing residual in the Capital Account. Apart from certain inevitable errors of estimation and omissions due to incomplete information available, the above-mentioned item gives a valuable pointer to year to year changes in "leads and lags" of short term commercial credit (time extensions or restrictions in credit facilities to New Zealand exporters or importers by overseas buyers or sellers) and other capital movements not explained elsewhere.

BALANCE OF PAYMENTS AND EXCHANGE RECORD.—There are several very important differences between a balance of payments statement and the statistics of overseas receipts and payments which are included in an exchange record, e.g.—

- The former attempts to show all economic transactions between residents of one country and residents of other countries, whereas the exchange record shows only transactions involving remittances:
- The import and export figures in the balance of payments are based on trade (Customs) statistics, which enable goods to be valued at a definite and uniform valuation boundary—viz., f.o.b. country of export or import; the exchange record, on the other hand, records remittances for imports and exports wherever these are made and without adhering to any valuation boundary (f.o.b. or c.i.f.). The result is a difference both in timing and valuation between the two statements:
- Whereas exchange statistics record net settlements resulting from a number of possible contra-entries or offsets, the balance of payments shows these transactions as far as possible on a gross basis.

Other differences arise from the fact that the balance of payments is constructed on a basis of country of origin for imports and country of destination for exports, country of residence of remitter or remitee, and nationality in the case of shipping companies, whereas the record of exchange transactions is based on the country of monetary settlement.

BALANCE OF PAYMENTS AND EXCHANGE RECORD, 1952-53

A comparison between the two statistical concepts for the year ended 31 March 1953 can be summarized in the following short table (a plus sign indicates a net surplus, a minus sign a net deficit).

Year Ended 31 March 1953	Balance of Payments Exchange Record	
	£(million)	£(million)
Current Account—		
Merchandise trade	+ 32.0	+25.9
Non-monetary gold	+0.2	
Invisibles	-37.6	-16.7
Unilateral transactions	-0.1	+ 1.8
Balance on Current Account	-5.5	+11.0

While the exchange record shows a current surplus of £11.0m., there is a balance of payments deficit of £5.5m. Compared with the year ended 31 March 1952 both statements record, however, a very similar favourable movement in net balances; on a balance of payments basis the improvement was £24m. approximately and £27m. approximately on an exchange basis.

Commenting on the main differences in the two statistics, it is necessary to point out that the larger surplus in the merchandise section on a balance of payments basis is owing primarily to the f.o.b. valuation for imports (as well as exports) and the transfer of the shipping and insurance bill on imports to the "invisibles" section. Exchange record figures for imports, however, are composed mainly if not entirely on c.i.f. remittances. Yet the greater surplus for merchandise trade on a balance of payments basis is not sufficient to compensate for a very significant disparity between c.i.f. Customs values (exports and imports for year ended 31 March 1953) and c.i.f. (mainly) figures recorded by exchange control.

During the period dealt with, 1952-53, exchange record and Customs figures (unadjusted for balance of payment purposes) compared as follows.

	Imports (i.f.)		Exports (f.o.b.)		Trade Balance	
	£(million)	£(million)	£(million)	£(million)	£(million)	£(million)
Customs	240.1	228.6	238.6	227.1	-1.5	-1.5
Exchange record	201.2	227.1	227.1	227.1	+25.9	+25.9
Difference	-38.9	+11.5			-27.4	-27.4

The above table shows that in the merchandise section alone unadjusted Customs figures result in a trade balance figure which is by £27.4m. less favourable (imports in excess of exports) to New Zealand than data provided by the Reserve Bank of New Zealand exchange control.

It is the task of a balance of payments statement to provide an explanation for such discrepancies. In round figures it can be said that about £9m. of the difference is due to imports by New Zealand branches and subsidiaries of overseas companies for investment in their New Zealand businesses: £14m. approximately of the total is owing to a net inward movement of short-term commercial credit; and the balance is due to various causes, such as differences in the valuation boundaries in the two series, imports under no-remittance licences, and marine freights and insurance paid by importers to New Zealand residents (included in c.i.f. Customs values but not included in exchange record values).

GENERAL.—The balance of payments is a record of economic transactions between residents and non-residents.

Residents are all persons living permanently in New Zealand (or for a period exceeding twelve months), subsidiaries and branches of overseas companies are treated as residents, and subsidiaries and branches of New Zealand companies operating overseas are regarded as residents of the country of their business.

In order to simplify the rather complex operations of overseas shipping companies, the shipping transactions of their branches in New Zealand (such as their receipts of freights, port disbursements, administrative expenses in New Zealand) are regarded as transactions of non-residents, by way of exception to the general rule stated above; on the other hand, their investment activity is included in the data on "New Zealand Branches of Overseas Companies" (page 692) and conforms to the general rule.

GEOGRAPHICAL DIVISION.—The regional break-up of the balance of payments is on a geographical (as distinct from a currency) basis. This means that it is not the currency in which any economic transaction is settled but the nationality of New Zealand's immediate partner in the transaction which determines in which regional column the transaction is recorded. Any exception to this rule is due to statistical necessity—insufficiency of basic data, etc.—rather than choice.

The New Zealand figures include transactions of New Zealand's dependent Island Territories and the Trust Territory of Western Samoa.

The following geographical division of other areas has been chosen in order to group together countries whose currencies are of particular economic interest.

Other Sterling Countries.—Other Commonwealth countries (excluding Canada and Newfoundland) and their trustee and dependent territories; the colonies, protectorates, and trustee territories, etc., of the United Kingdom, the Republic of Ireland, Burma, Iraq, and Iceland.

U.S.A. and Canada.—The United States of America, including its possessions, and Canada, including Newfoundland.

Other Dollar Countries.—All Central American Republics; Cuba, Haiti, Dominican Republic; Colombia, Venezuela, Ecuador, Bolivia; the Philippine Islands.

O.E.E.C. Countries.—These are the member countries of the Organization for European Economic Co-operation—France, Italy, Belgium, Luxembourg, Netherlands, Sweden, Norway, Denmark, Switzerland, Portugal, Austria, Greece, Turkey, West German Federal Republic, and Trieste, together with their dependent overseas territories, but not Indonesia, which is included in "Other Countries".

Other Countries.—All countries not included in any other group.

ACCOUNTING PERIOD.—All estimates are for financial years ending 31 March.

SUMMARY TABLES, CURRENT AND CAPITAL ACCOUNTS.—The following table summarizes current transactions with all countries. The figures shown in the credit, debit, and net balance columns are the same as those appearing in the "Total, All Countries" columns in the tables on pages 685-7.

Current Account	Credits					Debits					Net Balance				
	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53
	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)	£(NZ,000)
Merchandise transactions f.o.b.	202,250	250,850	239,850	145,450	236,600	207,850	56,800	14,200	32,000						
Non-monetary gold	900	900	200				900	900	200						
Transportation	5,900	5,450	11,350	16,900	32,300	29,800	-11,000	-26,850	-18,450						
Travel	1,300	1,550	1,800	5,400	6,000	4,850	-4,100	-4,450	-3,050						
Insurance	450	1,100	450	550	500	600	-100	600	-150						
International investment income—															
Income from direct investment	1,850	2,000	1,650	6,600	4,800	5,550									
Other private investment	1,900	2,450	2,800	2,100	4,200	3,900									
Government interest	350	750	750	2,500	2,500	2,500									
Local authority interest				250	200	200									
Totals	4,100	5,200	5,200	11,450	11,700	12,150	-7,350	-6,500	-6,950						
Government transactions—															
New Zealand and foreign Government expenditure	400	600	350	3,800	6,150	8,100									
New Zealand Government receipts	1,100	300	1,100												
Totals	1,500	900	1,450	3,800	6,150	8,100	-2,300	-5,250	-6,650						
Miscellaneous receipts and payments	2,450	3,050	3,650	3,200	4,750	5,250	-750	-1,700	-1,600						
Films				600	600	750	-600	-600	-750						
Unilateral transfers—															
Government contribution to Colombo Plan					750	500									
Personal remittances and other donations and transfers	2,150	3,050	3,350	2,900	3,050	3,450									
Migrants' funds	2,000	3,100	2,450	3,450	2,300	1,950									
Legacies	900	1,300	1,100	1,350	1,150	1,100									
Totals	5,050	7,450	6,900	7,700	7,250	7,000	-2,650	200	-100						
Grand totals	223,900	276,450	270,850	195,050	305,900	276,350	28,850	-29,450	-5,500						

Minus (-) sign denotes excess of imports over exports or payments over receipts.

The consolidated Capital Account shown below summarizes capital transactions with all countries; it consists of the "Total, All Countries" column of the table on pages 688-690, but some of the items are presented in simplified form (by adding or off-setting capital movements where these have occurred in respect of equally defined items).

Capital Account	1950-51		1951-52		1952-53	
	Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
	£(N.Z.,000)					
Long term capital (private)—						
Overseas direct investment in New Zealand		6,500		12,250		11,150
Minus (-) sign denotes a decrease.						

Capital Account	1950-51		1951-52		1952-53	
	Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
New Zealand direct investment overseas	1,500		950		1,000	
Other long term capital movements	-3,750		-1,750		-5,800	
Long term capital (Government)—						
Government investments	7,000		5,600		2,500	
Public debt		-1,000				
Local authority debt		-450		-100		-50
Long term capital (official and banking institutions)—						
New Zealand Wool Commission					3,000	
Investments in United Kingdom-Dominion Wool Disposals, Ltd.	4,350		-800			
Wool credit to France	100					
Wool credit to Czechoslovakia	650		50			
Short term capital (Government)—						
Government cash balances	-100		-50		350	
Short term capital and monetary gold (official and banking institutions)—						
Net overseas assets	25,600		-21,000		23,150	
Monetary gold	900		900		200	
Other short term capital movements, including errors and omissions		2,350		1,200		13,800
Balance on Capital Account	28,850		-29,450		-5,500	

Minus (-) sign denotes a decrease.

MERCHANDISE TRANSACTIONS: Exports.—The source of the export tables is Customs information on total exports (exclusive of ships' stores) at f.o.b. valuation; exports from New Zealand to Western Samoa have been excluded from Customs figures, but exports from Western Samoa and Cook Islands to other countries have been added to New Zealand totals. The remaining adjustments are for items which are either entirely omitted from Customs statistics (relief supplies, ships and aircraft sold and leaving under their own power), items where the valuation requires correction (parcel post, cheese export values, operation of United Kingdom - Dominion Wool Disposals, Ltd.), and items which are accounted for elsewhere in the balance of payments (export of gold).

Exports	United Kingdom/Other Sterling Countries/U.S.A. and Canada/Other Dollar Countries/O.E.E.C. Countries/Other Countries/Total, All Countries							
	£(N.Z.,000)							
	1950-51							
Exports f.o.b. (excluding ships' stores and exports to Western Samoa)	124,250		7,750	24,300	800	28,500	10,750	196,400
Plus adjustment for parcel post	400		150	50		50	50	700
Plus adjustment for relief supplies	50		50			150	100	350
Plus exports from Cook Islands and Western Samoa	700		50	250		50		1,050
Plus exports of ships' stores and bunkers	900		50			50		1,000
Plus adjustment in respect of wool exports	4,050							4,050
Less exports of monetary gold			-1,300					-1,300
Exports (adjusted) f.o.b.	130,350		6,750	24,600	800	28,800	10,900	202,250
	1951-52							
Exports f.o.b. (excluding ships' stores and exports to Western Samoa)	141,800		12,050	42,050	750	40,650	10,200	247,450
Plus adjustment for parcel post	450		250	50		50	50	800
Plus adjustment for relief supplies			100			150	100	350
Plus exports from Cook Islands and Western Samoa	950		200	450		50		1,600
Plus exports of ships' stores and bunkers	1,250		50			50	100	1,450
Plus sale of vessels and aircraft								150
Plus valuation adjustments for cheese exports	-150							-150
Plus adjustment in respect of wool exports	150							150
Less exports of monetary gold			-1,000					-1,000
Exports (adjusted) f.o.b.	144,450		11,650	42,650	750	40,950	10,450	250,850
	1952-53							
Exports f.o.b. (excluding ships' stores and exports to Western Samoa)	161,500		11,250	28,350	600	27,450	7,250	236,400
Plus adjustment for parcel post	350		200	50		50	50	650
Plus adjustment for relief supplies	50		100			100	100	350
Plus exports from Cook Islands and Western Samoa	1,350		50	300		100		1,700
Plus exports of ships' stores and bunkers	1,050		50			50	100	1,350
Plus sale of vessels and aircraft						50		50
Plus valuation adjustment for cheese exports	-200							-200
Less exports of monetary gold			-450					-450
Exports (adjusted) f.o.b.	164,100		11,200	28,800	600	27,700	7,450	239,850

Imports.—The basic figures in the import tables also originate in Customs statistics. New Zealand imports from Western Samoa have been excluded from the Customs figures, but imports into Cook Islands and Western Samoa from other countries have been added. Besides additions for aircraft and ships arriving in New Zealand under their own power, there is a deduction for notional import values of commercial films; the latter are substituted by remittances of film rentals which express more exactly the cost of films to this country.

It is necessary to comment here on the valuation method adopted for exports. Balance of payments accounts treat freight and marine insurance payments on imports—as far as they are made to non-residents—as invisible payments. As a result, merchandise transactions are shown on a f.o.b. valuation basis for imports and exports alike. This method of treatment has many advantages, and international comparability of merchandise movements is one of them.

There is, however, no provision in New Zealand statistics for a f.o.b. valuation of imports; all imports—as distinct from exports which have always been valued f.o.b.—are valued on the basis of "current domestic value," and only there has a c.i.f. valuation been introduced. Evidence suggests that f.o.b. values are, on the average, higher than current domestic values as defined by the Customs Department. Packing and transport charges from warehouse to port in exporting countries and buying commissions would account for the greater portion of the difference. This difference has been estimated from all the data at present available and added to c.d.v. Customs figures.

Imports	United Kingdom/Other Sterling Countries/U.S.A. and Canada/Other Dollar Countries/O.E.E.C. Countries/Other Countries/Total, All Countries							
	£(N.Z.,000)							
	1950-51							
Imports f.o.b. (excluding imports from Western Samoa)	85,900		29,700	13,100	1,300	6,600	7,100	143,700
Plus imports of ships and aircraft			50			150		1,250
Plus imports into Cook Islands and Western Samoa	250		350	200		50		800
Less imports of cinematographic films	-50		-150	-100				-300
Imports (adjusted) f.o.b.	87,150		29,950	13,200	1,300	6,800	7,100	145,450
	1951-52							
Imports f.o.b. (excluding imports from Western Samoa)	126,100		46,900	29,200	700	19,200	11,100	233,200
Plus imports of ships and aircraft			2,450			200		2,650
Plus imports into Cook Islands and Western Samoa	350		400	250		50	50	1,100
Less imports of cinematographic films	-50		-150	-100				-300

Imports	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
Imports (adjusted) f.o.b.	128,850	47,150	29,350	700	19,450	11,150	236,650
<i>1952-53</i>							
Imports f.o.b. (excluding imports from Western Samoa)	109,600	39,900	26,200	550	18,600	9,650	203,900
Plus imports of ships and aircraft	2,250	450			150		2,850
Plus imports into Cook Islands and Western Samoa	500	500	300		50	150	1,450
Less imports of cinematographic films	-100	-100	-150				-350
Imports (adjusted) f.o.b.	112,250	40,750	26,350	550	18,800	9,200	207,850

CURRENT ACCOUNT.—Both Current Account tables (credits and debits) comprise data of the merchandise trade as shown in export and import tables on pages 683 and 684 and current "invisibles". The figures for the latter are based on exchange control data which are adjusted for balance of payments purposes.

Credits.—The item "non-monetary gold" represents the purchase by the Reserve Bank of gold produced in this country. Transportation represents mainly port disbursements (exclusive of bunkers and provisioning) of overseas shipping companies operating in New Zealand; their establishment expenses, however, are included in "Miscellaneous Receipts". The regional break up of "Travel" receipts is subject to revision; at present it is still shown on the basis of currency received rather than residence (nationality) of traveller. The all countries total is, however, not affected. International investment income consists of net (after overseas taxes) earnings of New Zealand companies operating overseas, irrespective of whether these have been remitted to New Zealand or re-invested overseas.

Credits	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
<i>1950-51</i>							
Exports f.o.b.	130,350	6,750	24,600	800	28,800	10,900	202,250
Non-monetary gold							900
Transportation	4,750	950	100		100		5,900
Travel	550	650	100				1,300
Insurance	200	250					450
International investment income—							
Income from direct investment overseas	500	1,100	300		50	-50*	1,850
Other private investment income	1,200	650	50				1,900
Interest on Government investments	200				100		350
Government transactions—							
Expenditure by foreign governments in New Zealand	200	50	100		100		400
New Zealand Government current receipts overseas	850	200	1,100				1,100
Miscellaneous receipts	1,350	750	200		150		2,450
Unilateral transfers—							
Personal remittances and other donations and transfers	1,300	650	200				2,150
Immigrants' funds	1,650	200	50		100		2,000
Legacies	750	100	50				900
Total credits	143,850	12,300	25,750	800	29,400	10,850	223,900
<i>1951-52</i>							
Exports f.o.b.	144,500	11,650	42,650	750	40,950	10,450	250,850
Non-monetary gold							900
Transportation	4,500	700			50	200	5,450
Travel	700	750	100				1,550
Insurance	650	400	50				1,100
International investment income—							
Income from direct investment overseas	450	1,200	350				2,000
Other private investment income	1,450	900	50		50		2,450
Interest on Government investments	600				150		750
Government transactions—							
Expenditure by foreign governments in New Zealand	50	350	50		100	50	600
New Zealand Government current receipts from overseas	100	200	300				300
Miscellaneous receipts	1,700	850	350		100	50	3,050
Unilateral transfers—							
Personal remittances and other donations and transfers	1,850	900	200		50	50	3,050
Immigrants' funds	2,750	250	50		50		3,100
Legacies	1,100	150	50				1,300
Total credits	160,400	18,300	43,900	750	41,500	10,800	276,450
<i>1952-53</i>							
Exports f.o.b.	164,100	11,200	28,800	600	27,700	7,450	239,850
Non-monetary gold							200
Transportation	5,150	3,100	1,900		650	200	11,350
Travel	750	950	100				1,800
Insurance	300	100	50				450
International investment income—							
Income from direct investment overseas	300	1,000	350				1,650
Other private investment income	1,650	750	350		50		2,800
Interest on Government investments	600				150		750
Government transactions—							
Expenditure by foreign governments in New Zealand	150	50	50		50	50	350
New Zealand Government current receipts overseas	150	950					1,100
Miscellaneous receipts	2,450	800	350		50		3,650
Unilateral transfers—							
Personal remittances and other donations and transfers	1,900	1,050	300		50	50	3,350
Immigrants' funds	2,100	250	50		50		2,450
Legacies	850	150	100				1,100
Total credits	180,800	20,350	32,400	600	28,700	7,800	270,850
* Net loss.							

Debits.—Transportation consists mainly of freight and marine insurance on imports paid to nonresident shipping companies and port disbursements by New Zealand companies overseas and charters. Travel is exclusive of fares paid in New Zealand which are included in the transportation account. International investment income is based on total earnings of overseas companies operating in New Zealand, irrespective of whether these are remitted or re-invested in New Zealand. (Refer also to table on page 693, "Summary of Overseas Direct Investment in New Zealand"). The item "Films" represents film rentals of commercial films exhibited in New Zealand. Unilateral transfers is the general term for donations or transactions where there is no *quid pro quo*, as would be the case with merchandise transactions or the rendering of services; the item in the tables consists both of monetary payments as shown in the exchange record and Government and private supplies in kind, such as the estimated value of gift parcels, relief supplies, etc. Migrants' funds and legacies are included in the same group because, from a country's point of view, there is no "consideration" in the ordinary meaning of the word.

Debits	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
--------	----------------	--------------------------	-------------------	------------------------	--------------------	-----------------	----------------------

Debits	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
<i>1950-51</i>							
Imports f.o.b.	128,850	47,150	29,350	700	19,450	11,150	236,650
Transportation	28,350	700	1,400		950	850	32,300
Travel	3,950	1,750	250				6,000
Insurance	450	50					500
International investment income—							
Income from direct investment in New Zealand	2,300	1,700	900				4,900
Other private investment	2,350	1,400	400			50	4,200
Interest on Government debt	2,500						2,500
Interest on local authority debt	200						200
Government transactions—							
Current Government expenditure	5,050	600	350		50	100	6,150
Miscellaneous payments	1,850	950	1,500		400	50	4,750
Films	50	100	450				600
Unilateral transfers—							
Government contribution to Colombo Plan		750					750
Personal remittances and other donations and transfers	1,200	1,150	100		250	350	3,050
Emigrants' funds	950	1,150	150			50	2,300
Legacies	700	400	50				1,150
Total debits	178,650	57,850	34,900	700	21,150	12,600	305,900
<i>1951-52</i>							
Imports f.o.b.	144,500	11,650	42,650	750	40,950	10,450	250,850
Transportation	21,750	1,600	1,500		3,750	1,800	29,800
Travel	3,350	1,300	150			50	4,850
Insurance	500	100					600
International investment income—							
Income from direct investment in New Zealand	2,300	1,650	1,550			50	5,550
Other private investment	3,150	650				100	3,900
Interest on Government debt	2,500						2,500
Interest on local authority debt	200						200
Government transactions—							
Current Government expenditure	4,900	2,100	1,100				8,100
Miscellaneous payments	2,250	1,100	1,350		450	100	5,250
Films	100	150	500				750
Unilateral transfers—							
Government contribution to Colombo Plan		500					500
Personal remittances and other donations and transfers	1,450	1,150	100		400	350	3,450
Emigrants' funds	1,000	750	150			50	1,950
Legacies	650	400	50				1,100
Total debits	156,350	51,600	32,800	550	23,550	11,550	276,350

Current Account (Net).—The following tables are arrived at by offsetting debits and credits in respect of corresponding groups of items.

Net Amounts	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
<i>1950-51</i>							
Merchandise transactions	43,200	-23,200	11,400		-500	22,000	56,800
Non-monetary gold							900
Transportation	-10,150	50	-500		-200	-200	-11,000
Travel	-2,700	-1,300	-50				-4,100
Insurance	-250	150					-100
International investment income	-5,300	-450	-1,550		50	-50	-7,350
Government transactions	-1,250	-850	-300		100		-2,300
Miscellaneous	-50	-50	-550		-50	-50	-750
Films	-50	-100	-450				-600
Unilateral transfers	750	-3,000	50		-100	-350	-2,650
Balance on Current Account	24,200	-28,750	8,050	-500	21,750	3,150	28,850
<i>1951-52</i>							
Merchandise transactions	15,650	-35,500	13,300	50	21,500	-700	14,200
Non-monetary gold							900

Mimus (-) sign denotes excess of imports over exports or payments over receipts.

Net Amounts	United Kingdom	Other Sterling Countries	U.S.A. and Canada	Other Dollar Countries	O.E.E.C. Countries	Other Countries	Total, All Countries
Transportation	-23,850		-1,400		-900	-650	-26,850
Travel	-3,250	-1,000	-150		-50		-4,450
Insurance	200	350	50				600
International investment income	-4,750	-1,000	-900		200	-50	-6,500
Government transactions	-4,900	-50	-300		50	-50	-5,250
Miscellaneous	-1,500	-100	-1,150		-300		-1,700
Films	-50	-100	-450				-600
Unilateral transfers	2,850	-2,150			-150	-350	200
Balance on Current Account	-18,250	-39,550	9,000	50	20,350	-1,800	-29,450
<i>1952-53</i>							
Merchandise transactions	51,850	-29,550	2,450	50	8,900	-1,750	32,000
Non-monetary gold							200
Transportation	-16,250	2,100	400		-3,100	-1,600	-18,450
Travel	-2,600	-350	-50		-50		-3,050
Insurance	-200		50				-150
International investment income	-5,600	-550	-850		150	-100	-6,950
Government transactions	-4,600	-1,100	-1,050		50	50	-6,650
Miscellaneous	200	-300	-1,000		-400	-100	-1,600
Films	-100	-150	-500				-750
Unilateral transfers	1,750	-1,350	150		-400	-250	-100
Balance on Current Account	24,450	-31,250	-400	50	5,150	-3,750	-5,500

Minus (-) sign denotes excess of imports over exports or payments over receipts.

CAPITAL ACCOUNT.—As mentioned in the introductory notes, it is the purpose of the Capital Account to explain how the current surplus or deficit has been financed or, in other words, what changes have occurred to various overseas assets and liabilities (long term, short term, gold reserves) to account for the balance on Current Account. The tables are largely self-explanatory, but one or two points require mention. The item net overseas assets (of official and banking institutions) is shown in the column of the United Kingdom, although this is not strictly correct. Gross overseas assets and gross overseas liabilities of the Reserve Bank and trading banks arising out of New Zealand business are to a small extent owned or due in currencies other than sterling. At present it has been found impossible to separate movements in other than net sterling assets, but the resulting error is believed to be not very significant. There is another point in connection with this item which should be explained: Net overseas assets are shown here under the description of "Short term capital and monetary gold—official and banking institutions". It is well known, of course, that a portion of what is commonly known as sterling exchange is held in the form of investments in United Kingdom stock or short-dated United Kingdom Government paper: these are purchased or sold according to whether there is need for liquidity or not. It is largely a matter of interpretation whether these investments should be treated as short or long term. The treatment accorded to the item in the table is largely one of convenience.

Attention is drawn to the items "Other short term capital movements (including errors and omissions)" and "Multilateral transfers". At the present stage of the Department's investigation it is impossible to separate the two items on an area by area basis, and they are bracketed together. They are shown in one figure in the regional columns, and are merely the residual between the balance on Capital Account for each area and the capital items which are estimated and shown separately in the same area column.

In the way in which these are shown in the regional columns, they represent—(a) short term capital movements between each respective area and New Zealand, (b) multilateral transfers—i.e., the differences between Current Account transactions between New Zealand residents and the residents of the respective areas and the movement of financial assets or liabilities in the same area. To give an example, a difference of this kind would arise in the following instance: New Zealand imports of oil from, say, Indonesia may be settled by a remittance to the United Kingdom. While the Current Account between New Zealand and Indonesia (included in the regional column "Other countries") would show a debit in that column, the decrease in our overseas assets (from which the payment is made) is shown in the column for the United Kingdom. The purpose of the multilateral transfer entry is to credit the Capital Account of the United Kingdom, and debit the Capital Account of the "Other countries" column, in order to compensate the divergent movement in the Current and Capital Accounts.

Capital Account	United Kingdom		Other Sterling Countries		U.S.A. and Canada		Other Dollar Countries		Other Countries		Total, All Countries	
	Increase in		Increase in		Increase in		Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
<i>£N.Z. 000</i>												
<i>1950-51</i>												
Long term capital (private)—												
Overseas direct investment in New Zealand		5,250								700		
New Zealand direct investment overseas	-150		1,400		250							
Other long term capital movements	-5,600	-350	-200	-1,550	-100	-50						
Long term capital (Government)—												
Government investments	7,050		-50									
Public debt		-350		-650								
Local authority debt		-450										
Long term capital (official and banking institutions)—												
Investment in United Kingdom-Dominion Wool Disposals, Ltd.	5,650	1,300										
Wool credit to France												
Wool credit to Czechoslovakia												
Short term capital (Government)—						50						
Government cash balances	-100		-50									
Short term capital and monetary gold (official and banking institutions)—												
Net overseas assets	25,600											
Monetary gold												
Other short term capital movements (including errors and omissions)	2,850		32,050	8,500							500	
Multilateral transfers												
Balance on Capital Account	24,200		-28,750		8,050						-500	

Capital Account —	O.E.E.C. Countries		Other Countries		U.S.A. and Canada		Other Dollar Countries		Total, All Countries	
	Increase in		Increase in		Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
Long term capital (private)—										
Overseas direct investment in New Zealand		550							6,500	
New Zealand direct investment overseas	50				1,500					
Other long term capital movements					-5,900	-2,150				
Long term capital (Government)—										
Government investments					7,000					
Public debt						-1,000				
Local authority debt						-450				
Long term capital (official and banking institutions)—										
Investment in United Kingdom Dominion Wool Disposals, Ltd.					5,650	1,300				
Wool credit to France	100					100				
Wool credit to Czechoslovakia			650		650					
Short term capital (Government)—										
Government cash balances						-100				
Short term capital and monetary gold (official and banking institutions)—										

Capital Account —	O.E.E.C. Countries		Other Countries		Total, All Countries	
	Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
Net overseas assets					25,600	
Monetary gold					900	
Other short term capital movements (including errors and omissions)	22,150		2,500			2,350
Multilateral transfers						
Balance on Capital Account	21,750		3,150		28,850	

Capital Account	United Kingdom		Other Sterling Countries		U.S.A. and Canada		Other Dollar Countries		Total, All Countries	
	Increase in		Increase in		Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
<i>£N.Z. 000</i>										
<i>1951-52</i>										
Long term capital (private)—										
Overseas direct investment in New Zealand		8,750		1,650		1,400				
New Zealand direct investment overseas	-300		850		400					
Other long term capital movements	-2,300	-200	-600	-850	50					
Long term capital (Government)—										
Government investments	5,650		-50							
Public debt										
Local authority debt		-100								
Long term capital (official and banking institutions)—										
Investment in United Kingdom Dominion Wool Disposals, Ltd.	-7,900	-7,100								
Wool credit to France										
Wool credit to Czechoslovakia										
Short term capital (Government)—						50				
Government cash balances	-50		-50							
Short term capital and monetary gold (official and banking institutions)—										
Net overseas assets	-21,000									
Monetary gold										
Other short term capital movements (including errors and omissions)	9,000		38,900	9,900		50				
Multilateral transfers										
Balance on Capital Account	-18,250		-39,550		9,000					50

Capital Account —	O.E.E.C. Countries		Other Countries		Total, All Countries	
	Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
Long term capital (private)—						
Overseas direct investment in New Zealand		400				12,250
New Zealand direct investment overseas	100		-100		950	
Other long term capital movements			50		-2,800	-1,050
Long term capital (Government)—						
Government investments					5,600	
Public debt						
Local authority debt						-100
Long term capital (official and banking institutions)—						
Investment in United Kingdom-Dominion Wool Disposals, Ltd.					-7,900	-7,100
Wool credit to France						
Wool credit to Czechoslovakia			50		50	
Short term capital (Government)—						
Government cash balances					-50	
Short term capital and monetary gold (official and banking institutions)—						
Net overseas assets					-21,000	
Monetary gold					900	
Other short term capital movements (including errors and omissions)	20,650		1,800		1,200	
Multilateral transfers						
Balance on Capital Account	20,350		-1,800		-29,450	

Capital Account	United Kingdom		Other Sterling Countries		U.S.A. and Canada		Other Dollar Countries		Total, All Countries	
	Increase in		Increase in		Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
<i>£N.Z. 000</i>										
<i>1952-53</i>										
Long term capital (private)—										
Overseas direct investment in New Zealand		4,550		2,550		4,000				
New Zealand direct investment overseas			700		250					
Other long term capital movements	-5,900	-350	-100	-300	-450	-50				
Long term capital (Government)—										
Government investments	-2,450		-50							
Public debt										
Local authority debt		-50								
Long term capital (official and banking institutions)—										
New Zealand Wool Commission	3,000									
Wool credit to France										
Wool credit to Czechoslovakia										
Short term capital (Government)—										
Government cash balances	-50		350		50					
Short term capital and monetary gold (official and banking institutions)—										
Net overseas assets	23,150									
Monetary gold										
Other short term capital movements (including errors and omissions)	10,850				29,900	3,700			50	
Multilateral transfers										
Balance on Capital Account	24,450		-31,250		-400				50	

Capital Account—	O.E.E.C. Countries		Other Countries		Total, All Countries	
	Increase in		Increase in		Increase in	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
Long term capital (private)—						
Overseas direct investment in New Zealand		50				11,150
New Zealand direct investment overseas	100		-50		1,000	
Other long term capital movements					-6,450	-650
Long term capital (Government)—						
Government investments					-2,500	
Public debt						
Local authority debt						-50
Long term capital (official and banking institutions)—						
New Zealand Wool Commission					3,000	
Wool credit to France						
Wool credit to Czechoslovakia						
Short term capital (Government)—						
Government cash balances					350	
Short term capital and monetary gold (official and banking institutions)—						
Net overseas assets					23,150	
Monetary gold					200	
Other short term capital movements (including errors and omissions)	5,100		3,700			13,800
Multilateral transfers						
Balance on Capital Account	5,150		-3,750			-5,500

Because all multilateral transfers, as included in the area columns, necessarily cancel each other out, the entry for multilateral transfers in the "Total, All Countries" column is nil; the amount shown in this column represents "Other short term capital movements (including errors and omissions)" only. Although this entry is a residual balancing item, it is believed to be a fair indicator of movements in short term commercial credit such as would be caused by timing changes in payments for exports and imports (a shift towards shorter-dated or longer-dated bills or any other change in credit facilities in respect of imports or exports). No great significance need be attached to this entry when it is small, but the marked increase which is shown for the year 1952-53 would point to a definite inflow of this type of short-term capital.

SURVEY OF COMPANIES WITH OVERSEAS AFFILIATIONS.—The purpose of this survey is to ascertain movements in private investment capital. The overall results of the survey form part of the capital account (items "Overseas direct investment in New Zealand" and "New Zealand direct investment overseas"). The 1949-50 results were first published in the October 1951 *Abstract of Statistics*, and a detailed description of methods used was also given.

The survey is directed to all known subsidiaries and branches of overseas companies and to New Zealand companies having subsidiaries or branches overseas. Another type of company from which reports are being obtained are companies registered in New Zealand and controlled by non-resident individuals as distinct from non-resident (parent) companies. The reports include information on changes in paid-up and nominal capital, dividends paid, and an analysis of the current accounts with the parent company or head office in the case of branches. Undistributed profits of subsidiaries are treated as additions to earnings (current account) and as an inward investment flow (capital account).

The figures exclude changes in net assets of banks (on their own account) and life insurance companies; the 1949-50 figures exclude fire and accident insurance companies which are, however, included in the later three years.

The results of the survey should provide a valuable contribution to the question of capital movements generally, and to the present discussion on overseas borrowing in particular. The rate of increase in overseas investment in New Zealand is particularly significant (£3.1m. in 1949-50, £6.5m. in 1950-51, £12.6m. in 1951-52, and £11.2m. in 1952-53). These inward flows of capital constitute a form of borrowing which until now was unknown statistically, and the effect of which on the overall balance of payments could not be properly appreciated.

Investment in New Zealand Subsidiaries of Overseas Companies.—The following series of tables are concerned with investment in New Zealand subsidiaries of overseas companies, and include companies controlled by individual overseas shareholders.

TOTAL INCREASE IN INVESTMENT

Country of Incorporation of Parent Company (Associated Companies)	1949-50	1950-51	1951-52	1952-53*
£N.Z.000				
United Kingdom	1,180	3,020	6,790	2,090
Other sterling countries	240	350	1,240	1,350
U.S.A. and Canada	160	810	1,110	3,790
O.E.E.C. countries	170	540	180	90
Totals, all countries	1,750	4,720	9,320	7,320
* Provisional estimates.				

FORM OF INVESTMENT INCREASE

Country of Incorporation of Parent Company (Associated Companies)	Increase in Holdings of Paid-up Capital				Increase in Intercompany Indebtedness				Increase in Reserves			
	1949-50	1950-51	1951-52	1952-53	1949-50	1950-51	1951-52	1952-53	1949-50	1950-51	1951-52	1952-53*
£N.Z.000												
United Kingdom	660	910	520	550	150	720	5,360	440	370	1,390	910	1,100
Other sterling countries	190	300	10	220	-120	-420	600	430	170	470	630	700
U.S.A. and Canada	290	30	310	1,560	200	-370	950	1,430	-330	1,150	-150	800
O.E.E.C. countries	50	10			50	470	190	40	70	60	-10	50
Totals, all countries	1,190	1,250	840	2,330	280	400	7,100	2,340	280	3,070	1,380	2,650
* Provisional estimates.												

DIVIDENDS DECLARED AND REMITTED

Country of Incorporation of Parent Company (Associated Companies)	Declared				Remitted			
	1949-50	1950-51	1951-52	1952-53	1949-50	1950-51	1951-52	1952-53
£N.Z.000								
United Kingdom	440	600	350	370	470	430	250	290
Other sterling countries	390	400	270	440	340	350	250	370
U.S.A. and Canada	740	590	530	720	730	580	540	710
O.E.E.C. countries	70	30	30	10	10	20	30	
Totals, all countries	1,640	1,620	1,180	1,540	1,550	1,380	1,070	1,370

Investment in New Zealand Branches of Overseas Companies.—The next table deals with investment in New Zealand branches (as distinct from subsidiaries) of overseas companies.

Country of Incorporation of Head Office (Associated Companies)	Increase in Net Branch Assets and Other Investments				Net Earnings of Branches (After Tax)			
	1949-50*	1950-51	1951-52	1952-53	1949-50*	1950-51	1951-52	1952-53
£N.Z.000								
United Kingdom	660	2,220	1,940	2,480	600	1,320	870	820
Other sterling countries	480	-340	430	1,190	200	600	760	510
U.S.A. and Canada	100	-90	300	190	50	80	200	80
O.E.E.C. countries		10	240	-20	10	10	10	10

Country of Incorporation of Head Office (Associated Companies)	Increase in Net Branch Assets and Other Investments				Net Earnings of Branches (After Tax)			
	1949-50*	1950-51	1951-52	1952-53	1949-50*	1950-51	1951-52	1952-53
Totals, all countries	1,240	1,800	2,910		3,840	860	2,010	1,840
* Exclusive of non-resident insurance companies.								

Summary of Overseas Direct Investment in New Zealand.—Combining the figures derived under the two preceding headings, the following summary of overseas direct investment in New Zealand is obtained.

Country of Incorporation of Parent Company (Associated Companies) or Head Office	Total Increase in Investment				Form of Investment Increase			
	1949-50*	1950-51	1951-52	1952-53*	1949-50	1950-51	1951-52	1952-53
£N.Z.000								
United Kingdom	1,870	5,240	8,730	4,570	660	910	520	550
Other sterling countries	810	10	1,670	2,540	190	300	10	220
U.S.A. and Canada	260	720	1,410	3,980	290	30	310	1,560
O.E.E.C. countries	170	550	420	70	50	10		
Totals, all countries	3,110	6,520	12,230	11,160	1,190	1,250	840	2,330

Country of Incorporation of Parent Company (Associated Companies) or Head Office	Increase in Net Branch Assets and Intercompany Indebtedness				Increase in Reserves			
	1949-50*	1950-51	1951-52	1952-53	1949-50	1950-51	1951-52	1952-53*
£N.Z.000								
United Kingdom	840	2,940	7,300	2,920	370	1,390	910	1,100
Other sterling countries	450	-760	1,030	1,620	170	470	630	700
U.S.A. and Canada	300	-460	1,250	1,620	-330	1,150	-150	800
O.E.E.C. countries	50	480	430	20	70	60	-10	50
Totals, all countries	1,640	2,200	10,010	6,180	280	3,070	1,380	2,650
* Exclusive of non-resident insurance companies.								
† Provisional estimates.								

Investment by New Zealand Companies Overseas.—The following table gives the converse of that immediately preceding, and thus relates to investment by New Zealand companies overseas.

TOTAL INCREASE IN INVESTMENT AND TOTAL NET EARNINGS

Countries in which Subsidiaries and Branches Situated	Total Increase in Investment (Subsidiaries and Branches)			Total Net Earnings (after Overseas Taxes) of Branches and Subsidiaries		
	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53
£N.Z.000						
United Kingdom	-160			500		480
Other sterling countries	1,390	860	720	1,100	1,190	1,010
U.S.A. and Canada	250	420	230	280	340	350
O.E.E.C. countries	60	80	80	60	10	10
Other countries	-20	-100	-30	-70	-20	-30
Totals, all countries	1,520	940	1,000	1,870	2,000	1,640

In the next table the information is given for subsidiaries and branches separately.

SUBSIDIARIES AND BRANCHES SEPARATELY

Countries in which Subsidiaries and Branches Situated	Subsidiaries									Branches		
	Total Investment Through Subsidiaries			Increase in Reserves			Increase in Paid-up Capital, Intercompany Indebtedness, and Other Investments			Increase in Net Branch Assets		
	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53	1950-51	1951-52	1952-53
£N.Z.000												
United Kingdom	170	20	-90	40	40	-20	130		-20		-70	-330
Other sterling countries	130		80	10	-20		120		20		80	1,260
U.S.A. and Canada	-70	80	50				-70		80		50	320
O.E.E.C. countries	60	80	80	60	80	80						340
Other countries												-20
Totals, all countries	290	180	120	110	100	60	180		80		60	1,230

Chapter 30. SECTION 30—GENERAL GOVERNMENT FINANCE

Table of Contents

[30 A—REVENUE AND EXPENDITURE](#)

[30 B—TAXATION](#)

[30 C—STATE INDEBTEDNESS](#)

30 A—REVENUE AND EXPENDITURE

GENERAL.—The legislation relating to the custody, administration, and audit of the public moneys and securities is contained in the Public Revenues Act 1953, which consolidated and amended the former 1926 Act and its amendments. All public moneys are paid into or are payable to either one account at the Reserve Bank called the "Public Account" or to certain other accounts which are outside the Public Account (refer to text following).

The statistical material presented in the ensuing pages relates solely to those accounts or funds included within the framework of the Public Account. However, a consolidated review of Government receipts and expenditure on current account has been prepared and made available in the Section on National Income and Sector Accounts. This review has accordingly taken into consideration the net surpluses or deficits of trading and other accounts not within the Public Account. Present data are insufficient to show the details of the capital account for the Government sector of the economy.

Financial Year.—The financial year commences on the 1st day of April and ends on the 31st day of March. The receipts of any financial year represent the money received into the Public Account at the bank at Wellington within the year, together with that received into the Public Account at London of which advice is received in time for inclusion in the accounts for the year. The payments represent the money paid (a) at the Treasury within the year, (b) by imprest, of which accounts are received at the Treasury within the year, and (c) at London, of which advice is received in time for inclusion. The Public Account, formerly held at the Bank of New Zealand, was taken over by the Reserve Bank of New Zealand from 1 August 1954.

At the end of each financial year the Appropriation Act of that year lapses, but the Minister of Finance is authorized for a period of three months from the commencement of the next financial year to pay money in respect of any service, provided that the amount does not exceed the unexpended balance voted for that purpose in the previous year, together with an amount equal to one-fourth of such vote.

The normal practice is for Parliament to meet at the end of June in each year and to vote supplies from month to month until the estimated expenditure for the year has been approved and the annual Appropriation Act is passed. Where a later session of Parliament is foreseen, a temporary amendment to the provisions set out in the preceding paragraph is made. In the event of a mid-session adjournment, supplies in anticipation of the Appropriation Act may be voted for more than one month.

Section 12 of the Public Revenues Amendment Act 1952 provided that where provision has been made for expenditure in the nature of a grant or for a purpose that does not normally recur, but the expenditure cannot be made during the financial year, the Minister of Finance may direct that the unexpended balance shall be transferred to a separate fund or account. In such a case the amount is held there until payment is required, when the amount may be expended without further appropriation.

Audit of Expenditure.—In the audit of expenditure both the pre-audit and post-audit systems are in operation. Pre-audit is applied to vouchers in respect of payments on account of salaries of new appointees; officers claiming more than one month's salary at any time; interest, loan transactions, and return of deposits; unauthorized expenditure; transfers between Government accounts; or expenditure chargeable against the accounts of local authorities. Post-audit is applied to all other payments.

Vouchers must be certified as correct by the proper officer, and forwarded by him to the head of his Department for approval. Vouchers subject to pre-audit are then forwarded to the Audit Office, and on being found correct are sent on to the Treasury to be entered on requisitions for payment. Vouchers subject to post-audit are transmitted by the head of the Department direct to the Treasury. Payments made by the Treasury, and the claim is afterwards submitted for audit.

Section 10 of the Public Revenues Act 1952 enables the Controller and Auditor-General to determine, within reasonable limits, the extent of the audit of the Public Accounts.

Income and Expenditure.—A system of departmental balance sheets and statements of accounts was inaugurated on commercial lines in 1920 to show the true cost of the various Departments and services, as distinct from payments out of appropriations on the basis referred to at the beginning of this subsection. These balance sheets and statements of accounts were published annually in parliamentary paper B-1 [Part IV], to which the reader is referred for details of income, expenditure, etc., in respect of certain Departments and services. The publication of these detailed accounts for a number of Departments has been discontinued.

ACCOUNTS AND FUNDS OUTSIDE THE PUBLIC ACCOUNT.—In addition to those moneys payable into the Public Account, money paid into the following accounts are also deemed to be public money—Broadcasting Account, Bureau of Industry Bank Account, Government Accident Insurance Account, Government Insurance Account, Government Superannuation Fund Account, Housing Account, Iron and Steel Industry Account, Maori Trustee's Account, Marketing Account, Meat Industry Account, Post Office Account, National Provident Fund Account, Public Trustee's Account, State Fire Insurance Account, and such other accounts as from time to time are declared to be such by Order in Council.

Transactions in connection with the majority of these accounts are given in the various Sections of the Year-Book dealing with the relevant activity.

ACCOUNTS AND FUNDS WITHIN THE PUBLIC ACCOUNT.—The records of the Public Account in the books of the Treasury consist of a number of ledger accounts for the special subsidiary funds or accounts, and a number of other accounts established by statute or kept by Treasury under authority of the Public Revenues Act. In these accounts are recorded for each separate fund or account the receipts, payments, and cash balance so that the bank balance in the Public Account is apportioned among the funds and accounts, and balanced itemized statements of the receipts and payments for each of the funds or accounts are prepared for publication.

The use of the terms "fund" and "account" implying some significant distinction is hardly justified. The use of the term "Social Security Fund," for example, does not imply any technical accounting distinction between the Social Security Fund and the Public Works Account or the other accounts within the Public Account.

The following accounts and funds were included in the Public Account at 1 April 1953: Consolidated Fund, Public Works Account, Social Security Fund, Defence Fund, Deposits Account, Earthquake and War Damage Fund, Electric Supply Account, Land Settlement Account, Loans Redemption Account, National Development Loans Account, Reserve Fund Account, State Coal Mines Account, War Emergency Account (its moneys were later transferred to the Defence Fund), Working Railways Account.

Particulars of some of the more important accounts are contained in the following pages, while others are dealt with in the appropriate Sections of this volume. The Deposits Account represents only lodgments or withdrawals of (mainly) non-Government moneys. The Loans Redemption Account is dealt with in the subsection on indebtedness.

The figures shown under the various headings of this subsection are on the basis of receipts and payments. In some Sections devoted to the operations of various Departments and activities, the figures are given on an income and expenditure basis and accordingly differ to some extent from those appearing here.

SUMMARY OF PUBLIC ACCOUNT FOR 1951-52 AND 1952-53.—The following table gives a concise statement of the whole of the financial transactions comprised in the Public Account for the years 1951-52 and 1952-53, the source being parliamentary paper B-6, 1953.

Receipts	Year Ended 31 March	
	1952	1953
	£(m.)	£(m.)
Taxation—		
Income tax	78.1	78.7
Social security charge	43.6	45.5
Customs	32.6	27.3
Sales tax	21.8	22.0
Stamp and death duties	13.3	14.5
Other taxation	11.1	11.8
Totals, taxation	200.5	199.8
Interest	7.3	6.9
Profits from trading	1.7	1.5
Departmental receipts	14.9	15.3
—Totals, Consolidated Fund and Social Security Fund receipts	224.4	225.5
Receipts from borrowing (less repayments)—		
National Savings	5.8	3.2
Post Office Savings Bank [‡]	9.8	4.5
Other borrowing	14.6	10.8
—Totals, borrowing	30.2	18.5
Other capital receipts—		
Transfer from Consolidated Fund for debt repayment	5.9	6.6
Sinking Fund contributions	3.8	3.3
Transfers from Consolidated Fund to—		
War Emergency Fund and Defence Funds	12.9	0.1
Public Works Account		60
Miscellaneous capital receipts	3.6	4.6
—Totals, other capital receipts	26.2	20.6
—Totals	280.8	262.6
Excess receipts of trading accounts, etc., within the Public Account	7.6	-1.9
—Grand totals	288.4	260.7 [‡]
Social services	89.3	98.0
Defence	24.6	26.5
Administration, etc.	24.6	22.5
Stabilization	15.3	14.7
Maintenance of works, etc.	12.5	14.6
Development of industry	11.6	12.9

* Expenditure from Public Works Account.

‡ Transfer from National Development Loans Account.

‡ Sale or purchase of investments by Public Account.

§ A number of transfer entries, such as the annual transfer from Consolidated Fund to Social Security Fund and the transfers of the surplus for previous years which do not affect the overall cash surplus or deficit, have been excluded from both sides of the above statement.

Receipts	Year Ended 31 March	
	1952	1953
Interest and management of the public debt	17.9	17.6
Transfer for repayment of the public debt	5.9	6.6
Transfer to War Emergency Fund 1951-52 and Public Works Fund 1952-53	6.6	6.0
—Totals, Consolidated Fund and Social Security Fund expenditure	208.3	219.4
Works and other capital expenditure—		
Housing construction*	70	9.8
School buildings*	2.7	4.8
Highways construction*	2.6	3.3
Forest development*	2.1	1.8
Electric supply [‡]	10.5	13.5
Land settlement [‡]	1.5	
Railways [‡]	3.0	5.3
State coal [‡]		0.5
Post Office [‡]	3.5	2.9
Murupara Pulp and Paper Scheme [‡]		0.2
State Advances Corporation [‡]	81	13.8
Other [‡]	3.6	5.1
—Totals, Works and other capital expenditure	44.6	61.0
Family bonus, 1950-51	30	
Purchase of miscellaneous investments not included above [‡]	6.5	6.4
—Totals	262.4	286.8
Overall cash surplus or deficit—Repayment to Reserve Bank [‡]	24.0	
Withdrawn from Reserve Bank [‡]		-10.0
Increase in cash (and imprest) balance	2.0	
Decrease in cash (and imprest) balance		-16.1
—Grand totals	26.0	-26.1
—Grand totals	288.4	260.7 [‡]

* Expenditure from Public Works Account.

‡ Transfer from National Development Loans Account.

‡ Sale or purchase of investments by Public Account.

§ A number of transfer entries, such as the annual transfer from Consolidated Fund to Social Security Fund and the transfers of the surplus for previous years which do not affect the overall cash surplus or deficit, have been excluded from both sides of the above statement.

During 1952—receipts from taxation, interest, profits and departmental receipts amounted to £224 million, about the same as in the previous year. Borrowings after provision for debt repayments at £18 million were £12 million less than in 1951-52. Sundry capital receipts and transfers totalled £20 million, or £6 million less, while trading accounts spent £2 million more than receipts. Total receipts were therefore £260 million.

Payments and transfers from the Consolidated and Social Security Funds were £219 million, £11 million higher than in 1951-52; works and other capital expenditure at £61 million was £16 million more; miscellaneous capital items amounted to £6 million, thus giving a total expenditure of £286 million, or £26 million greater than the receipts.

The deficit of £26 million was financed by using £16 million from cash balances and by withdrawing £10 million from the Reserve Bank. In the previous year a cash surplus of £26 million was used to repay £24 million to the Reserve Bank and to increase cash balances by £2 million.

The main items contributing to this reversal was a fall of £12 million in loan money receipts after providing for debt repayment; an increase of £8 million defence expenditure; payment by various trading accounts of £2 million more than receipts compared with a £7 million surplus (a difference of £9 million); an increase of social service expenditure of £9 million; and an increase of £16 million on works, etc., expenditure (main increases—housing construction £2-8 million, school buildings £2.1 million, electric supply £3 million, railways £2-3 million and capital for State Advances Corporation £5.7 million); with miscellaneous items showing a net decrease of £2 million.

ESTIMATES OF RECEIPTS AND EXPENDITURE FOR 1953-54.—The following table supplies a composite account embracing Works and Loan Accounts, Consolidated Fund, and Social Security Fund, showing the estimated receipts and payments for 1953-54.

Estimated Receipts 1953-54	£(m.)	Estimated Payments 1953-54	£(m.)
Revenue, departmental trading receipts, transfers, etc.		Hydro-electric	17.75 [‡]
	20.45	Land settlement	10.74 [‡]
National Savings, Post Office Savings Bank,		State housing	13.00
departmental investments, and 1952-53 surplus	20.00	Education buildings	5.75
Overseas investments (excluding Murupara loan)	2.75	Railway construction, etc.	8.80
Internal loans	25.48	Telephone and telegraph extension	3.60
		Roads and highways construction	4.25
		Forest development	1.65
		Other works	3.04
Total	68.68	Total	68.58
<i>Consolidated Fund</i>			
Taxation—		Interest and debt repayment	25.41
Customs	25.00	Permanent appropriations	3.69
Beer duty	5.50	Annual appropriations—	
Sales tax	19.70	Stabilization	13.90
Film hire	0.10	Defence	27.50
Highways	5.20	Highways maintenance	5.65
Stamp duty	13.70	Development of primary and secondary industries	13.50
Land tax	1.30		
Income tax	81.50	Social services (excluding transfer to Social Security Fund)	43.01
Interest	15.200	Other votes	28.09
Other receipts—		Supplementary estimates	2.50
Trading profits	2.00		
Departmental	15.90		
Total	177.50	Total	163.25
<i>Social Security Fund</i>			
Social security charge	48.00	Administration expenses	1.01
* Includes operating expenses.			

Estimated Receipts 1953-54	(£m.)	Estimated Payments 1953-54	(£m.)
Miscellaneous	0.10	Emergency benefits and Christmas bonus	2.17
		Total	3.18
		Monetary benefits—	
		Age	19.10
		Invalids	1.35
		Widows	2.10
		Sickness	1.10
		Family	17.60
		Universal superannuation	6.32
		Other	0.17
		Medical, hospital, etc., benefits	11.20
		Total	62.10
		Over-all surplus	0.35
Grand total	£294.28	Grand total	£294.28

* Includes operating expenses.

THE CONSOLIDATED FUND.—The Consolidated Fund, the principal account in the Public Account, covers the ordinary revenue and expenditure of the General Government—i.e., apart from capital items, commercial and special undertakings, advances, etc. In earlier years its operations afforded an excellent comparison of State revenue and expenditure from year to year, but successive changes in system have largely destroyed the comparability of the figures. All tax receipts are shown here with the exception of the social security tax, taxation receipts as a whole being the subject of the succeeding subsection. In addition the Consolidated Fund is the focal point of the earnings of a number of State-owned undertakings as it records the receipts of interest, profits, and dividends from them.

Figures of receipts and payments of the Consolidated Fund over a long period of years will be found in the Statistical Summary near the end of this volume. For the years prior to 1937-38 they are there presented on the old or flat basis—i.e., certain interest and other payments, now treated as receipts, were treated as credits in reduction of expenditure. For later years the figures are on a gross basis.

A summary of receipts, payments, current surpluses, and net balance carried forward for the last eleven years is contained in the following table, together with the amounts utilized in each year from the surplus of the preceding year.

Year Ended 31 March	Receipts	Payments	Surplus	Net Balance Carried Forward at End of Year	Transfers of Previous Year's Surplus to Other Accounts During Year Quoted
	£	£	£	£	£
1943	55,075,960	50,921,382	4,154,578		6,208,499
1944	57,561,409	55,328,829	2,232,580		4,241,070
1945	59,928,872	58,714,153	1,214,719		3,255,789
1946	63,913,649	62,659,499	1,254,150		4,509,940
1947	108,294,473	103,683,455	4,611,018		9,120,958
1948	117,116,115	115,330,403	1,785,712		6,295,652
1949	141,523,915	138,893,154	2,630,761		7,140,701
1950	124,996,634	120,688,892	4,307,742		11,448,443
1951	143,756,815	135,503,598	8,253,217		15,393,919
					4,307,741 ¹
					3,078,910 ²
1952	180,788,402	168,152,681	12,635,721		19,776,423
					5,174,307 ³
					4,000,000 ⁴
1953	177,822,098	174,515,055	3,307,043		10,447,745
					8,635,721 ⁵

¹ To War Expenses Account except in 1951-52, which was to the War Emergency Account.

² To Public Works Account.

³ Utilized for payment of family bonus.

⁴ To National Development Loans Account.

Receipts.—Details of receipts of the Consolidated Fund are given in the next table. Taxation receipts represent only those amounts paid into the Consolidated Fund, and there are substantial amounts of special taxation which are paid to the Social Security Fund. Full details of taxation receipts are contained in Section 30B.

Source	1950-51	1951-52	1952-53
	£	£	£
Taxation—			
Customs	23,600,062	33,599,596	27,373,206
Beer duty	5,036,145	5,273,804	5,466,701
Sales tax	16,827,106	21,811,375	21,991,703
Film-hire tax	106,702	112,541	135,348
Highways	3,996,629	4,575,347	4,908,492
Stamp duties	4,874,839	5,207,577	5,702,526
Death (including gift) duties	7,254,013	8,117,259	8,767,857
Land tax	1,043,203	1,137,937	1,315,136
Income tax	59,441,839	78,101,503	78,701,376
Interest on capital liability—			
Electric supply	1,640,594	1,946,053	2,350,453
Housing account	795,352	897,240	959,404
Housing construction	105,110	83,353	92,523
Post and Telegraph	811,128	947,886	1,016,266
Land settlement	1,100,000	1,200,000	1,400,000
Maori land development, etc.	106,229	133,871	135,373
New Zealand National Airways Corporation	85,875	42,000	42,000
State coal mines		191,280	151,053
Other accounts		5,790	
Interest on other public moneys	1,922,002	1,889,562	746,157
Profits on trading undertakings	1,770,351	1,740,532	1,480,946
Departmental receipts	13,239,636	14,773,896	15,185,214
Totals	143,756,815	180,788,402	177,822,098

Compared with 1951-52, receipts for 1952-53 showed a decrease of £2,966,304, or 1.6 per cent. A fall in the receipts from Customs taxation of £5,326,390 more than accounted for the decrease in the total receipts, most of the remaining items showing a slight increase.

Payments.—Payments from the Consolidated Fund are divided into two main groups, according to whether they are made under permanent or under annual appropriation. The latter heading covers the payments under the various departmental votes, while the former covers interest on and amortization of the public debt, and payments under numerous special Acts.

Payments under the main heads of permanent appropriation and each head of annual appropriation during the last three years were as follows.

Head	1950-51	1951-52	1952-53
	£	£	£
Permanent appropriations—			
Civil List	93,898	119,326	159,125
Debt services—			
Interest	17,264,200	17,712,640	17,320,982
Amortization	8,727,529	5,860,729	6,573,767
Administration and management	322,257	201,885	264,407
Highways: Payment to boroughs, etc.	253,882	298,078	*
Superannuation (subsidy and contribution)	2,850,000	2,915,000	2,998,000
Other items	510,455	568,765	514,917
Totals, permanent appropriations	30,022,221	27,676,423	27,831,198
Annual appropriations—			
Legislative	192,084	183,061	198,257
Prime Minister's Office	11,792	14,438	18,336
External Affairs	736,638	1,604,363	1,800,164
Finance—			
Treasury	388,070	358,249	259,873
Stabilization	9,371,508	15,319,712	14,719,507
Customs	359,857	373,568	400,008
Inland Revenue	874,319	1,032,050	1,106,136
Audit	142,596	159,990	171,987
Totals, finance	11,136,350	17,243,569	16,657,511
General administration—			
Public Service Commission	79,329	92,760	95,806
Internal Affairs	3,027,782	2,528,014	2,621,847
Island Territories	650,515	873,750	825,799
Printing and Stationery	1,084,355	2,704,632	1,789,180
Marine	394,552	398,648	465,401
Labour and Employment	1,651,448	4,404,020	3,101,213
Maori Affairs	787,600	681,296	838,867
Valuation	285,915	374,004	411,563
Census and Statistics	126,146	232,485	145,465
Rehabilitation	2,124,278	1,968,325	1,498,541
Totals, general administration	10,211,920	14,258,034	11,793,382
Law and order—			
Justice	885,765	1,167,602	1,130,093
Crown Law	17,588	19,381	19,787
Police	1,238,966	1,449,362	1,520,914
Totals, law and order	2,142,319	2,636,345	2,670,794
Defence—			
Navy	3,231,362	4,479,436	5,666,108
Army	5,729,217	8,660,446	11,005,104
Air	4,981,727	9,494,290	7,545,940
Defence Construction and Maintenance	1,308,428	2,005,485	2,263,954
Totals, defence	15,250,734	24,639,657	26,481,106
Maintenance—			
Maintenance of Public Works and Services	6,750,686	7,739,979	9,425,527
Highways Maintenance	4,044,936	4,785,095	5,178,687
Totals, maintenance	10,795,622	12,525,074	14,604,214
Development of primary and secondary industries—			
Lands and Survey	1,507,784	1,606,980	1,729,500
Forest Service	1,111,385	1,349,820	1,856,716
Agriculture	2,310,733	2,863,619	2,889,264
Milk Marketing	113,087	587,392	630,947
Industries and Commerce	344,203	577,189	388,923
Tourist and Publicity	931,198	1,136,740	1,253,834
Scientific and Industrial Research	961,739	1,095,933	1,009,572
Mines	118,109	112,597	146,423
Transport	315,683	355,186	714,647
Civil Aviation and Meteorological Services	2,048,793	2,126,227	2,263,271
Totals, development of primary and secondary industries	9,762,714	11,611,683	12,883,097
Social services—			
Health	10,247,294	12,775,834	14,424,555
Education	13,345,564	15,904,424	18,123,697
War and other Pensions	5,597,335	6,443,238	6,639,726
Payment to Social Security Fund	14,000,000	14,000,000	14,000,000
Totals, social services	43,190,193	49,123,496	53,187,978
Totals, annual appropriations	103,430,366	133,839,720	140,294,839
Unauthorized expenditure	2,051,011	36,538	389,018
Transfer to War Emergency Account		6,600,000	
Transfer to Public Works Account			6,000,000
Grand totals	135,503,598	168,152,681	174,515,055

* Included under vote "Transport".

In numerous cases the expenditure incurred on various related services appears partly in each of two or more places in the accounts. Typical instances occur where capital expenditure out of the Public Works Account or money paid under permanent appropriations are not associated with departmental votes (refer parliamentary paper B-1 [P. II], 1953).

Total expenditure in 1952-53 showed an increase of £6,362,374, or 3.8 per cent. Items of expenditure which contributed materially to the increase were Social Services (principally Education and Health), £4,064,482. Maintenance (mostly Public Works and Services), £2,079,140, these being offset in part by reductions in General Administration, £2,464,652, and Finance, £586,058.

PUBLIC WORKS.—For the prosecution of the policy of public works inaugurated in 1870 there was set up a Public Works Fund. For many years all expenditure on public works was borne by this fund, but in course of time separate subsidiary accounts were established to deal with certain special activities. These subsidiary accounts became merged in the General Purposes Account of the Public Works Fund, or ceased to exist on the completion of the work for which they were called into existence. Under section 4 of the Finance Act (No. 7) 1942 the Public Works Fund was abolished and a Public Works Account substituted as from 1 April 1942. The Electric Supply Account and the Electric Supply Sinking Fund Account, which formerly ranked as part of the Public Works Fund, were then shown as separate accounts. The Electric Supply Sinking Fund Account was abolished as from 31 March 1944.

The Construction Fund of the Main Highways Account, which was established in 1923-24 to provide finance for the construction, reconstruction, etc., of main highways, was analogous to the Public Works Fund, and its operations were for some years included in the Year-Book statement of public-works receipts and payments. The Construction Fund of the Main Highways Account was later (1 April 1936) combined with the Revenue Fund. With the abolition of the Main Highways Account as from 1 April 1947, however, receipts and expenditure on highways construction have been incorporated in the Public Works Account, and are accordingly shown in the amounts given below.

This account bears the cost of all major development works apart from state hydro-electric, land settlement, railway improvements, and telegraph extension. Finance is largely provided by transfers from the National Development Loans Account and from the Consolidated Fund.

Receipts.—A summary of receipts of the Public Works Account for the last three financial years is contained in the following table.

	1950-51	1951-52	1952-53
	£	£	£
Linen flux, sale of produce, disposal of assets, and adjustments of processing costs	500,181	10,433	
Education Department	706,307*	782,601*	1,423,350*
Forest development	823,328	1,076,037	1,122,010
Highways construction	41,399	29,777	41,377
Housing construction	1,950,878	1,348,337	1,387,038
Irrigation, water supply, and drainage	27,811	36,917	18,906
Public buildings	256,830*	112,471*	263,617*
Railway construction	23,606	38,257	61,028
Roads, etc.	71,412	70,277	287,668*
Soil conservation and rivers control	119,588*	50,453	54,377
Transfers from National Development Loans Account	12,500,000	14,500,000	5,500,000
Transfers from Consolidated Fund—Surplus from previous year During year	4,307,742	8,635,721	6,000,000
Repayment of loans of capital advances, and recoveries of capital moneys (various)	43,811	26,812	34,965
Miscellaneous	11,207	27,257	56,719
Totals	21,384,100	18,110,129	24,886,776

* Includes amounts transferred from Consolidated Fund: Education (from vote "Education"), £650,000 in 1950-51, £750,000 in 1951-52, and £1,400,000 in 1952-53; Public buildings, £250,000 in 1950-51, £100,000 in 1951-52, and £250,000 in 1952-53, and Soil Conservation, etc., £75,000 in 1950-51, each from vote "Maintenance of Public Works and Services"; and Roads, etc., £150,000 in 1952-53 from vote "Settlement of Ex-servicemen".

Payments.—Particulars of payments from the account for the three financial years 1950-51 to 1952-53 are now given.

	1950-51	1951-52	1952-53
	£	£	£
Forest development	1,543,581	2,058,713	1,807,241
Housing construction	9,854,016	7,011,565	9,753,904
Irrigation, water supply, and drainage	381,163	397,870	629,438
Public buildings	934,721	1,293,726	1,562,523
Educational buildings	2,527,435	2,667,634	4,811,575
Railway construction	597,187	940,653	1,547,637
Roads, etc.	504,105	645,607	867,510
Soil conservation and rivers control	375,653	439,783	495,070
Highways construction	1,834,455	2,549,655	3,324,664
Harbour development			22,915
Christmas Island phosphate rights	125,000		
Other	2,536	Cr. 524	
Totals	18,679,852	18,004,682	24,822,477

For the three years concerned, balances at the end of the year were: 1950-51, £4,003,108; 1951-52, £4,108,555; and 1952-53, £4,172,853.

In addition to expenditure on roads from the Public Works Account, there is expenditure incurred in roading Crown lands and lands purchased for settlement which is a charge on the Land Settlement Account.

ELECTRIC SUPPLY ACCOUNT.—As from 1 April 1942 the Electric Supply Account, which formerly ranked as part of the Public Works Fund, became a separate account. It reflects the cash transactions of the Government in respect of the State supply of electrical energy. The main items of receipts and payments of the Electrical Supply Account for the last three years were as follows.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			
Transfer from National Development Loans Account	8,400,000	10,500,000	13,500,000
Transfer from Public Works Account (vote "Roads")		50,000	
Sales of electrical energy and miscellaneous receipts	4,520,702	4,904,514	5,270,441
Other			167
Totals	12,920,702	15,454,514	18,770,608
<i>Payments</i>			
Development of water power, etc.	10,998,699	12,562,953	16,331,179
Interest on capital liability	1,640,594	1,946,053	2,350,454
Debt redemption	309,382	336,825	272,152
Taxation—			
Income tax	192,716	56,464	
Social security charge	29,004	8,884	
Subsidy to Government Superannuation Fund	16,885	32,133	31,369
Other		19	
Totals	13,187,280	14,943,331	18,985,154

The balances in the account at the end of each of the three years were: 1950-51, £2,907,507; 1951-52, £808,690; and 1952-53, £594,144.

LAND SETTLEMENT ACCOUNT.—Through the closing of several accounts and the merging of these in other accounts or funds, there now remains only one account dealing primarily with land settlement—viz., the Land Settlement Account—which covers numerous and diverse activities in connection with land settlement, including advances for development of certain lands held by Europeans and Maoris.

The principal advances accounts, those relating to State Advances to settlers, workers, etc., are, as stated earlier in this subsection, outside the Public Account and are not included here (refer Section 33B).

A statement of receipts and payments of the Land Settlement Account for the years 1950-51 to 1952-53 is now given.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			
Transfer from National Development Loans Account	500,000	1,500,000	
Lands and Survey Department—			

	1950-51	1951-52	1952-53
	£	£	£
<i>Capital receipts</i>			
Rents, interest, royalties, etc.	970,419	945,637	979,289
Receipts from settlement of ex-servicemen	5,552,609	5,410,468	3,803,600
Receipts from civilian development schemes	244,022	429,677	328,774
Miscellaneous receipts		823	746
Transfer from Consolidated Fund	500,000	450,000	450,000
Maori Affairs Department—			
Receipts from land-development schemes	1,436,759	1,760,592	1,655,791
Repayment of advances under Maori Housing Act	156,733	216,159	376,628
Receipts from rehabilitation of Maori ex-servicemen	83,725	124,282	163,468
Receipts from other activities	84,773	70,111	57,261
Transfer from Consolidated Fund	231,000	156,000	105,985
Interest on investments	7,167	20,833	30,134
Totals	11,010,943	12,686,256	9,010,943
<i>Payments</i>			
Crown lands	536,619	769,299	825,737
Settlement of ex-servicemen	4,420,230	5,378,062	5,559,121
Maori-land settlement	2,268,499	2,728,366	3,143,766
Interest on loans and capital liability	1,206,229	1,333,871	1,535,737
Payment in respect of land and improvements acquired for disposal under Land Act 1948	457,362	271,968	254,567
Other	10,538	19,930	84,494
Totals	8,899,467	10,501,496	11,403,422

The balances in the account for each of the three years were: 1950-51, £2,898,483; 1951-52, £5,083,243; and 1952-53, £2,690,764.

TRADING ACCOUNTS.—Several important trading operations of the Government are outside the scope of the Public Account, while certain others are included in the Consolidated Fund. The Electric Supply Account also covers both construction and trading operations. The Working Railways Account records the revenue from, and operating costs of, the services under the control of the Railways Department, as well as capital expenditure on improvements and additions to open lines.

Working Railways Account.—Receipts and payments of the Working Railways Account during the last three years were as follows.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			
Railway revenue	21,627,316	23,248,412	26,000,789
Subsidy from Consolidated Fund		1,202,488	
Miscellaneous receipts	3,877,259	3,351,538	5,571,412
Transfer from National Development Loans Account	3,300,000	3,030,000	5,289,000
Interest	13,750	14,250	14,166
Railway Employees' Sick Benefit Fund	12,500	8,000	6,000
Totals	28,830,825	30,854,688	36,881,367
<i>Payments</i>			
Annual appropriations—	£	£	£
Working Railways	24,628,862	26,890,032	32,477,081
Improvements and additions to open lines	3,448,029	3,039,107	5,305,394
Interest on capital liability		5,790	
Subsidy to Government Superannuation Fund	296,075	326,613	320,044
Subsidy to Railway Employees' Sick Benefit Fund	12,500	8,000	6,000
Other	2,000		1,961
Totals	28,387,466	30,269,542	38,110,480

At the end of each year the following balances remained in the account: 1950-51, £2,412,248; 1951-52, £2,997,395; and 1952-53, £1,768,281.

State Coal Mines Account.—The corresponding statement of receipts and payments of the State Coal Mines Account for the last three years is now presented.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			
Subsidy from Consolidated Fund, vote "Stabilization"			100,000
Rents, royalties, sale of coal, etc.	5,060,438	5,854,881	6,382,871
Transfer from National Development Loans Account	560,000		500,000
Housing and other loans: repayment of principal and interest	34,048	39,378	38,899
Realization of investments held by companies acquired by Crown	74,151	11,210	
Sales of stores and equipment			22,855
Miscellaneous receipts	156,222	180,828	25,209
Interest on Public Account cash balance investments		750	
Totals	5,884,859	6,087,047	7,069,834
<i>Payments</i>			
Annual appropriations—	£	£	£
State Coal Mines	5,466,072	5,815,339	7,124,189
Unauthorized expenditure			25,000
Interest on capital liability		191,280	151,052
Income tax		37,802	78,690
Social security charge		5,948	12,971
Transfer to Loans Redemption Account for redemption of securities	131,327	147,197	114,238
Subsidy to Government Superannuation Fund	4,501	5,419	5,659
Totals	5,601,900	6,202,985	7,511,799

Balances at the end of March for years 1950-51 to 1952-53 amounted to £579,488, £463,550, and £21,585 respectively.

SOCIAL SECURITY FUND.—The Social Security Fund was established as from 1 April 1939 under the authority of the Social Security Act of 1938. Receipts and payments of the fund during the last three years were as follows.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			

	1950-51	1951-52	1952-53
	£	£	£
Social security charge	35,766,236	43,612,868	45,507,938
Miscellaneous receipts	40,311	86,869	18,546
Transfers from Consolidated Fund	14,000,000	14,000,000	14,000,000
Interest	7,082	4,946	19,909
Deserted wives' maintenance (recoveries)	66,900	73,555	78,429
Recoveries on account reciprocity arrangements	1,860	3,428	3,414
Totals	49,882,389	57,781,666	59,628,236
<i>Payments</i>			
	£	£	£
Administration expenses and emergency benefits	1,140,555	1,317,778	2,086,586
Medical, hospital, etc., benefits	8,723,383	9,368,027	10,428,597
Monetary benefits	39,553,623	43,490,634	46,306,271
Balance of maintenance moneys	117	33	
Reciprocity benefits	3,083	3,771	4,900
Totals	49,420,761	54,180,243	58,826,444

The balances remaining in this account for the three years were as follows: 1950-51, £6,556,293; 1951-52, £10,157,716; and 1952-53, £10,599,509.

More detailed information concerning payments under the various headings are given in Section 7A of this Year-Book.

WAR EXPENSES ACCOUNT.—The War Expenses Account was set up under the provisions of the War Expenses Act of 1939, and all receipts and payments in connection with the war effort were dealt with through this account. Commencing with the 1946-47 financial year, the defence vote was restored to the Consolidated Fund, and current defence expenditure has since been met from that source. Expenditure arising from or consequent upon the Second World War, however, was paid from the War Expenses Account up to and including the financial year 1949-50, when the account was, in effect, abolished. A summary of receipts and payments of the War Expenses Account from its inception to 31 March 1950 is given on page 479 of the 1950 Year-Book.

NATIONAL DEVELOPMENT LOANS ACCOUNT.—Since the inauguration of the National Development Loans Account in April 1942 all loan moneys raised for public works and other capital purposes are first paid into this account and then transferred to the various accounts covering the activities for which the moneys are required. The Finance Act 1952 enables revenue moneys to be passed through this account, whereas previously the intention was to record the receipt and application of loan moneys only.

Particulars of receipts and payments of the National Development Loans Account during each of the last three financial years were as follows.

	1950-51	1951-52	1952-53
	£	£	£
<i>Receipts</i>			
Stock issued	33,975,419	30,723,880	25,441,900
Transfer from Consolidated Fund			4,000,000
Totals	33,975,419	30,723,880	29,441,900
<i>Expenditure</i>			
	£	£	£
Public Works Account	12,500,000	14,500,000	5,500,000
Electric Supply Account	8,400,000	10,500,000	13,500,000
Land Settlement Account	500,000	1,500,000	
State Coal Mines Account	560,000		500,000
Working Railways Account	3,300,000	3,030,000	5,289,000
Post Office Account	3,450,000	3,500,000	2,950,000
Purchase of shares in Dominion Salt, Ltd.	50,000	25,000	
Application moneys and calls in advance on shares in Tasman Pulp and Paper Co., Ltd.			200,000
Totals	28,760,000	33,055,000	27,939,000

The balance in the account at the end of each year was as follows: 1950-51, £5,215,419; 1951-52, £2,884,299; and 1952-53, £4,387,199.

EARTHQUAKE AND WAR DAMAGE FUND.—The Earthquake and War Damage Fund, which replaced the War Damage Fund created by the War Damage Act 1941, was set up under the provisions of the Earthquake and War Damage Act 1944. Premiums paid into the fund during the three years 1950-51 to 1952-53 amounted to £688,205, £826,723, and £940,491 respectively. Interest on investments amounted to £186,417, £210,369, and £232,175. Payments during the same years amounted to £44,115, £65,329, and £51,617, leaving balances of £7,666,022, £8,637,785, and £9,769,941 in the fund at 31 March 1951, 1952, and 1953 respectively.

A description of the provisions of the Act and further details of the fund will be found in Section 34D.

DEFENCE FUND.—In order to provide funds for the purchase of modern equipment for the Royal New Zealand Air Force, an Air Defence Fund was created in June 1948. This fund has since been extended to cover the three Services, and the title has been changed to the Defence Fund. With the abolition of the War Emergency Account in 1953-54, the fund may now be expended

for any purpose connected with the defence of New Zealand or directly or indirectly with any war or threat of war faced by New Zealand. If not required for its original purposes, money in the fund may be transferred to the Reserve Fund or to the Loans Redemption Account. The amounts paid into the Defence Fund were £1,600,000 in 1948-49, £1,300,000 in 1949-50, £3,950,000 in 1950-51, £6,300,000 in 1951-52, and £14,000,000 in 1952-53, which, together with interest on investments totalling £616,686, and after expenditure of £6,959 in 1952-53, left a balance of £13,899,727 in the fund at 31 March 1953.

WAR EMERGENCY ACCOUNT.—The purpose of this account was to provide for expenditure for any purpose connected directly or indirectly with any war or threat of war, in or to which Her Majesty may at any time be engaged or exposed. Section 3 of the Finance Act 1951 provided that the Minister of Finance might transfer to the account the whole or any part of moneys in the Consolidated Fund in excess of the amount reasonably required for that fund.

The initial transfer consisted of £5,174,307 of the Consolidated Fund surplus for 1950-51, while during the financial year 1951-52 a further £6,600,000 was transferred. There were no transfers to the account in 1952-53, but the interest on investments amounted to £198,138, leaving a balance of £11,972,445 in the account at 31 March 1953.

All moneys in this account were, however, transferred to the Defence Fund by virtue of the Public Revenues Act 1953 during 1953-54.

30 B—TAXATION

TOTAL TAXATION.—During the early nineteen-thirties heavier imposts were made in existing fields of taxation and, in addition, new classes of taxation were imposed, the latter including a sales tax and a scheme of special taxation for the relief of unemployment and the promotion of employment. This employment promotion tax was replaced in 1939-40 by social security taxation. Later the need of finance for New Zealand's war effort necessitated the imposition of new taxes and additional charges under many existing headings. The principal of these wartime taxes have either been abolished or the rates considerably reduced. The figures for the post-war years have been achieved despite the effect of certain reductions in taxation by way of rebates, smaller surcharges, etc., and reflect the higher levels of incomes, prices, etc.

All revenue collected by means of taxation was until the end of the financial year 1921-22 paid into the Consolidated Fund and applied to general purposes. During the period 1922-23 to 5 December 1927, however, certain items were paid directly into the Main Highways Account to help defray the cost of improving and maintaining roads. Receipts from social security taxation are paid direct into the Social Security Fund, while a similar position obtained in the case of war taxation, receipts from this source having been paid direct into the War Expenses Account up to 31 March 1946, since when all receipts previously included under the heading of war taxation have been treated as ordinary revenue and paid to the Consolidated Fund.

A summary of taxation revenue during the last eleven years is given in the following table. In addition to total taxation the amounts received from direct taxes on income are also shown.

Year	Direct Taxes on Income (i.e., Income Tax and War and Social Security Charges on Income)					Total Taxation	
	Amount				Percentage of Total Taxation (All Sources)	Amount	
	Total	Per Head of Mean Population	Total	Per Head of Mean Population		£	£ s. d.
1942-43	53,977,441	32 18	2	61 4	87,940,844	53	12 4
1943-44	63,311,965	38 13	3	62 8	100,839,484	61	11 7
1944-45	68,438,477	41 2	3	62 0	108,681,814	65	5 10

Year	Direct Taxes on Income (i.e., Income Tax and War and Social Security Charges on Income)					Total Taxation	
	Amount				Percentage of Total Taxation (All Sources)	Amount	
	Total	Per Head of Mean Population	Total	Per Head of Mean Population		£	£ s. d.
1945-46	71,582,870	41 16	11	62 3	114,954,873	67	4 0
1946-47	63,873,162	36 1	7	56 5	113,119,046	63	18 0
1947-48	63,581,244	35 3	6	52 0	122,275,911	67	12 11
1948-49	78,386,057	42 10	3	60 1	130,440,249	70	14 11
1949-50	80,186,020	42 12	5	59 2	135,556,319	72	1 1
1950-51	95,203,075	49 12	10	60 3	157,946,975	82	7 1
1951-52	121,714,371	62 2	9	60 7	200,549,807	102	7 9
1952-53	124,209,314	61 16	3	62 2	199,770,283	99	8 3

Excluding the special taxation levied for social security purposes, taxation revenue in 1952-53 amounted to £154,262,345, a decrease of £2,674,594 on the 1951-52 figure. Of this amount, £78,701,376, or 51 per cent, a slightly higher proportion than the figure of 49.8 per cent for the previous year, was received from direct taxes on income.

The following table shows receipts under the various heads of taxation during the last five years.

Head	Revenue for Year Ended 31 March				
	1949	1950	1951	1952	1953
Consolidated Fund—	£	£	£	£	£
Customs revenue	19,111,487	21,474,533	23,600,062	32,599,596	27,273,206
Beer duty	4,555,374	4,822,340	5,036,145	5,273,804	5,466,701
Highways taxation	3,613,743	3,640,116	3,996,629	4,575,347	4,908,492
Land tax	916,120	967,386	1,043,203	1,137,937	1,315,136
Income tax	49,007,672	48,483,450	59,441,839	78,101,503	78,701,376
Sales tax	14,105,224	14,785,320	16,827,106	21,811,375	21,991,703
Death duties	5,587,099	5,320,367	6,778,279	7,545,844	8,255,368
Gift duties	445,291	393,383	475,634	571,415	512,489
Racing taxation	2,103,760	2,268,491	2,577,603	2,628,384	3,301,825
Duty on instruments	530,800	596,992	1,161,000	1,436,588	1,369,371
Amusement tax	243,766	256,716	236,373	308,976	396,306
Adhesive stamps	182,721	214,172	339,806	237,923	226,416
Impressed stamps	339,555	355,547	386,436	422,132	428,010
Other stamps taxation	191,263	161,940	173,621	173,574	40,598
Film-hire tax	108,285	112,701	106,702	112,541	135,348
Miscellaneous	19,579	10			
Totals	101,061,739	103,853,464	122,180,538	156,936,939	154,262,345
Social security taxation—					
Social security charge	29,378,585	31,702,570	35,766,236	43,612,868	45,507,938
Registration fees, etc.	125	285	201		
Totals	29,378,510	31,702,855	35,766,437	43,612,868	45,507,938
Total taxation receipts	130,440,249	135,556,319	157,946,975	200,549,807	199,770,283

Taxation receipts per head of mean population—	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Ordinary (Consolidated Fund)	54	16	3	55	4	1	63	14	1	80	2	5
Social Security	15	18	8	16	17	0	18	13	0	22	5	4
Totals	70	14	11	72	1	1	82	7	1	102	7	9

Compared with 1951-52, revenue from taxation in 1952-53 showed a slight fall of £78,806, or 0.4 per cent. The fall in Customs taxation over the previous year's total amounted to £5,326,390.

In 1952-53 taxation paid into the Consolidated Fund accounted for 77.2 per cent of the total taxation receipts and social security taxes for 22.8 per cent. If to the total of social security taxes is added the £14,000,000 transfer from the Consolidated Fund, the 1952-53 taxation used for social security purposes amounted to 29.8 per cent of the total taxation receipts for the year.

The figures under the various headings in the preceding table are to a small extent swollen by the inclusion of penalties for late payment and of fines for offences under the various taxation Acts.

The Social Security Act 1938 provided that, in addition to the special taxation for the purposes of the Fund, payment may be made to the Fund of such other moneys as may be appropriated by Parliament from time to time, and a substantial amount has been transferred from the Consolidated Fund each year. Also, several substantial amounts were transferred from the latter Fund to the War Expenses Account. The total amount transferred to the Social Security Fund since its inception in 1939-40 to 31 March 1953 was £13,009,367, while during the same period £40,489,987 was transferred to the former War Expenses Account. In the year 1951-52, £5,600,000 was transferred from the Consolidated Fund to the War Emergency Account, together with the balance of the 1950-51 surplus, £5,174,307. The following table shows for each of the last seven years the taxation receipts of the Consolidated Fund, the amounts transferred as indicated above, and the taxation receipts of the Social Security Fund and War Expenses Account, plus the amounts of these transfers.

Year Ended 31 March	Consolidated Fund				Social Security Taxation Plus Transfers		War Expenses Taxation Plus Transfers	
	Taxation Receipts	Social Security Fund	War Expenses Account	Other Accounts	£	£	£	£
1943	36,195,865	3,800,000		3,172,000	15,988,643		42,728,336	
1944	42,107,619	4,100,000		11,700,000	17,477,773		57,144,092	
1945	45,689,396	4,500,000		6,200,000	18,740,066		54,932,352	
1946	48,370,718	7,000,000			22,167,308		51,416,847	
1947	90,715,393	18,000,000		3,000,000	40,403,653		3,000,000	
1948	96,099,153	16,000,000		6,666,018*	42,176,758		6,666,018	
1949	101,061,739	15,000,000		4,238,143*	44,378,510		4,238,143	
1950	103,853,464	12,000,000			43,702,855			
1951	122,180,538	14,000,000			49,766,437			
1952	156,936,939	14,000,000			57,612,907			
1953	154,262,345	14,000,000			18,635,721†		59,507,938	

* Includes £4,611,018 and £1,785,712 respectively from surplus of previous year.

† War Emergency Account, comprising transfer of £6,600,000 and £5,174,307 balance of surplus from previous year.

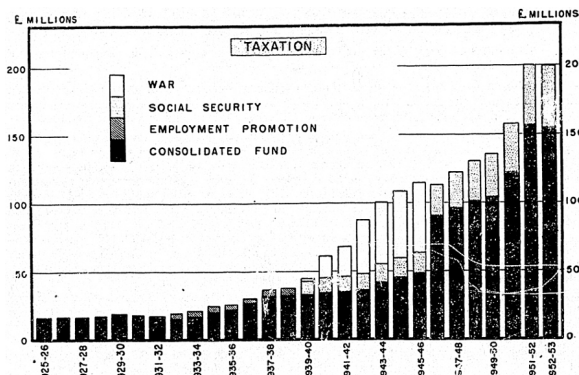
‡ Public Works Account, £14,638,721, consisting of £6,000,000 transfer and £8,638,721 balance of surplus from previous year; also National Development Loans Account, £4,000,000 from surplus of previous year.

A comparison of taxation revenue and total private income and national income is afforded by the following table, which also shows taxation as a percentage of private income and national income.

Year	Total Private Income	National Income at Factor Cost	Taxation Revenue			
			Total		As a Percentage of—	
			Private Income	National Income	Per Cent	Per Cent
	£m.	£m.	£m.	£m.	Per Cent	Per Cent
* Provisional.						

Year	Total Private Income	National Income at Factor Cost	Taxation Revenue		
			Total	As a Percentage of—	
			Private Income	National Income	
1942-43	295.7	291.5	87.9	29.7	30.2
1943-44	330.9	324.6	100.8	30.5	31.1
1944-45	339.1	328.1	108.7	32.1	33.1
1945-46	360.6	346.2	115.0	31.9	33.2
1946-47	396.3	365.9	113.1	28.5	30.9
1947-48	444.9	410.2	122.3	27.5	29.8
1948-49	462.4	419.4	130.4	28.2	31.1
1949-50	526.5	481.0	135.6	25.8	28.2
1950-51	656.1	607.4	157.9	24.1	26.0
1951-52	670.5	617.4	200.5	29.9	32.5
1952-53	700.6*	646.4*	199.8	28.5*	30.9*

The following diagram shows the extent to which taxation has increased since the year 1925-26. The extent to which employment promotion taxation and the later social security taxation have contributed towards this increase and the huge impact for war purposes are also clearly portrayed.



CUSTOMS AND EXCISE TAXATION.—Revenue included under the heading of Customs is exclusive of receipts from tire tax and from that portion of the motor-spirits tax which was imposed to provide funds for roading purposes, referred to under the next heading. Sales tax receipts are not counted as ordinary Customs revenue, although collected by the Customs Department, nor were gold export duties up to their final removal in October 1949. The following figures show Customs and excise revenue, for ordinary revenue purposes, for the last five years.

Year Ended 31 March	Customs Duties	Beer Duty	Total Customs and Excise Duties	Proportion of Total Taxation (Excluding Social Security)
	£	£	£	Per Cent
1949	19,111,486	4,555,374	23,666,860	23.42
1950	21,474,533	4,822,340	26,296,873	25.32
1951	23,600,062	5,036,145	28,636,207	23.44
1952	32,599,596	5,273,804	37,873,400	24.13
1953	27,273,206	5,466,701	32,739,907	21.22

Increases in the rate of beer duty and in the tax on motor spirits, for general revenue purposes, were brought into operation on 2 August 1939. As from 27 September 1939 additional duties were imposed on certain items (including beer and tobacco), which two items were subject to still further increases in duty as from 11 May 1942; the additional revenue in these cases was appropriated for war purposes, and paid direct into the War Expenses Account, until 1 April 1946, and thereafter into the Consolidated Fund. The duty on tea was reduced by 3d. a pound on 3 September 1951, and the motor-spirits tax was reduced by 2d. a gallon for the period 3 September 1951 to 25 November 1953, thereafter being increased by 3d. a gallon. Information in regard to these increases and Customs and excise duties generally is contained in Section 10D, Customs Tarriff and Revenue.

HIGHWAYS TAXATION.—The Main Highways Act 1922 laid down that the Revenue Fund (the Revenue and Construction Funds merged as from 1 April 1936) of the Main Highways Account was to be credited, *inter alia*, with—

All moneys received as Customs duties imposed in respect of rubber tires, rubber tiring, and inner tubes of rubber for pneumatic tires, *n.e.c.* (as per the Customs tariff);

All moneys received by the Crown under any Act in respect of the licensing of motor vehicles.

The tire tax was imposed by the Customs Amendment Act 1921, prior to the passing of which tires had been admitted free. The licensing of motor vehicles by the Crown became operative in the financial year 1924-25, consequent upon the passing of the Motor Vehicles Act 1924.

A third class of taxation for main-highways purposes was introduced towards the end of 1927 by the Motor Spirits Taxation Act of that year, which imposed a duty of 4d. per gallon on all motor spirits imported. The rate was increased to 6d. per gallon in 1930. The duty collected was paid into the Consolidated Fund in the first place and, after deduction of expenses of administration and of refunds (which are provided for in cases where the motor spirits are used otherwise than for motor vehicles), the residue was divided between the Main Highways Account and boroughs with a population of 6,000 or over, in the proportions of 92 per cent and 8 per cent respectively. The Main Highways Account was abolished as from 1 April 1947, but provision was made that amounts subject to appropriation by Parliament from the Consolidated Fund for highway purposes must not be less than the total of the net revenues which would have been available under the former system. An additional 2d. per gallon was imposed from 7 October 1931, a further 2d. from 9 February 1933, and a further 4d. from 2 August 1939, but these additional imposts (totaling 8d. per gallon, or 87/10d. per gallon on imports from foreign countries) were for general purposes, and the proceeds were treated as part of the ordinary Customs revenue. A reduction of 2d. per gallon in the rate of duty was made effective from 3 September 1951, but from 26 November 1953 it was again increased by 3d. a gallon. By virtue of the Finance Act (No. 2) 1953, after 1 April 1954 the whole of the motor spirits tax, after refunds, is to be paid into the National Roads Fund for roading purposes.

A mileage tax is also imposed on motor vehicles using fuel other than motor spirits. This tax was allocated in a similar manner to the tax on motor spirits, part of the receipts being regarded as the equivalent of Customs taxation and the balance, after deduction of administrative expenses and refunds, being regarded as part of the revenues for highway purposes. The full tax, less costs and refunds, is now paid into the National Roads Fund.

Taxation receipts for highway purposes have been as follows during the last five years.

Year Ended 31 March	Fees, etc., Under Transport Act 1949	Tire Tax	Motor-spirits Taxation	Mileage Tax	Total	
					£	£
1949	736,386	241,136	2,598,870	15,974	3,592,366	
1950	705,576	64,349	2,823,369	19,997	3,613,291	
1951	805,160	26,745	3,104,216	25,932	3,962,053	

Year Ended 31 March	Fees, etc., Under Transport Act 1949	Tire Tax	Motor-spirits Taxation	Mileage Tax	Total
1952	1,000,496	40,163	3,459,664	32,153	4,532,476
1953	995,577	25,224	3,814,277	36,745	4,871,773

LAND AND INCOME TAX.—A brief history of the various changes in the rates of, and the law relating to, land tax and income tax between 1915 and 1939 is contained in the 1940 and previous issues of the Year-Book. The principal alterations which have taken place since 1936 are as follows:

A graduated scale of land tax was reintroduced as from 1 April 1936. An amended scale of income tax, with somewhat heavier imposts, was also adopted, and various changes were made in regard to exemptions. Under the amended scale the reduction of exemptions with increasing income was discontinued, as was also the special flat-rate tax on incomes over £500. The 1936 amendment, superseded by the 1940 amendment, provides that taxpayers may be required to pay their income tax by instalments instead of in one sum as formerly.

With a view to obtaining additional revenue for general governmental purposes, legislation was passed in 1939 reducing the general exemption from £210 to £200 and increasing the basic rates of taxation. The general exemption was, however, raised to £230 by the Land and Income Tax Amendment Act 1953.

In connection with the provision of finance for war purposes, the War Expenses Act of 1939 increased all rates of income tax for the 1939-40 tax year by 15 per cent. This surcharge was retained at the same level for the succeeding two years, but was increased to 33½ per cent for the tax years 1942-43 to 1945-46. Reductions were later made to 15 per cent for the tax years 1946-47 to 1950-51, to 10 per cent for the tax year 1951-52, to 5 per cent for the tax year 1952-53, and to 2½ per cent for the tax year 1953-54.

Income derived from farm lands of an unimproved value of under £3,000 (from 1931-32) was, up to the passing of the Land and Income Tax Amendment Act 1939, exempt from income tax. The 1939 Act provides for all profits or gains derived from the use or occupation of any land to be regarded as assessable income. This Act also made provision (amended in 1940 and 1941) for the taxation of income of "proprietary" companies—*i.e.*, companies under the control of not more than four persons.

By the Land and Income Tax Amendment Act of 1940 certain State trading Departments, which were previously exempt, were made liable for the payment of income tax; the special exemption in respect of children was extended to include children brought to New Zealand under any Government scheme and being supported by any taxpayer; imputed land tax, once registered, was constituted a first charge on land until all arrears were paid; and a new scale of basic rates of income tax was provided. The 1941 amendment brought the provisions for taxation of banking companies into line with those for other companies.

Under the Finance Act 1942 the Commissioner of Inland Revenue (Taxes) is empowered to require any person to deduct income tax from payments due to defaulting taxpayers and to pay every sum so deducted to the Commissioner.

The Land and Income Tax Amendment Act 1944 increased the personal exemption of absentees from £50 to £200, and also made provision for deductions from assessable income in respect of deferred maintenance of assets where reasonable and proper maintenance was prevented by conditions arising out of the Second World War.

The Land and Income Tax Amendment Act 1945 increased, commencing with the tax year 1946-47, the special exemption in respect of a dependent wife or husband, or of a housekeeper whose duties included the care of a widowed or divorced taxpayer's child or children, from £50 to £100, and abolished the special exemption of £50 in respect of a dependent child. These adjustments were made as the result of the amendment to the Social Security Act which extended the family benefit to cover all children, irrespective of the income of the parents. Before the abolition of the exemption in respect of a dependent child could be carried into effect, however, the matter was again considered, and the exemption was restored by the Land and Income Tax Amendment Act 1946. The 1945 amendment also modified the special exemption in respect of a dependent relative, and increased the personal allowance of absentees where the incomes of husband and wife are aggregated. It also made provision for a special depreciation allowance, commencing with the tax year 1946-47, in respect of any premises, plant, or machinery acquired, erected, installed, or extended by a taxpayer on or after 1 April 1945 and not later than 31 March 1948. The period covered by this provision has since been extended to 31 March 1955. This allowance is in addition to the ordinary depreciation allowance provided for by the principal Act. The 1945 amendment further provided that, where the income of a taxpayer had been unduly increased upon the sale or other disposition of any livestock by reason of the adoption of a standard value that was less than the true value, the Commissioner might, upon application in writing before 30 June 1946, reduce the assessable income for any particular year or years. Provision was also made for the names of persons convicted of tax evasion, etc., to be published in the *New Zealand Gazette*.

The Land and Income Tax Amendment Act 1946 made provision for an agreement to be made with the Government of any territory outside New Zealand with a view to affording relief from double taxation. This amendment also abolished the excess-profits tax imposed by the Excess Profits Tax Act 1940. The 1949 amendment provided that in computing taxable income for the purposes of an aggregate assessment, a husband and wife were allowed a total ordinary exemption of £400 in all cases, irrespective of whether the income was derived from assessable or non-assessable sources. Other provisions included the deduction from a farmer's assessable income of expenditure on trees planted for shelter or to prevent erosion, etc., the spreading of income derived from the sale of timber from farms over a period of up to five years in all, the spreading of excess income derived from sale of a substantial part of the livestock of a farming business where unduly low standard values had been adopted, and that trading stock sold for an inadequate consideration should be deemed to have been sold at the market price current at the time of the sale for the purposes of arriving at the assessable income of the person selling the stock.

The 1950 amendment abolished the 33½ per cent additional charge in the case of unearned income imposed by the 1931 amendment and later incorporated in the basic rates fixed by the Land and Income Tax Amendment Act 1940. In effect, the former distinction for taxation purposes between earned and unearned income was removed. The same amendment also increased the special exemption from land tax from an unimproved value of £500 to an unimproved value of £1,000. The Land and Income Tax Amendment Act (No. 2) 1950 provided for a special income tax rebate of £15 (since reduced to £10) to persons who have attained the age of sixty-five years. It also exempted from income tax the income of societies formed for the purpose of advertising, beautifying, or developing any district with a view to attracting trade, tourists, or population, and not for private profit; enabled a husband who is separated from his wife to claim an exemption in respect of his wife to the same extent as if she were a dependent relative; authorized the Commissioner to grant an initial depreciation allowance of 30 per cent in respect of new farm equipment or new accommodation for farm workers acquired after 31 March 1950 and, as subsequently extended, prior to 1 April 1955; and, subject to provisions where the land is sold within five years, provided for an allowance for land-development expenditure to farmers, such as on eradication of animal or vegetable pests, felling of bush, weed destruction, and on swamp drainage, irrigation channels, rabbit proofing of fences, etc. The allowable deduction is not to exceed £200 in the aggregate of the latter class in any income year, and, in the case of a partnership, applies to the whole business, not to each partner individually.

This 1950 Act as amended in 1951 also provided for testamentary annuities charged on property bequeathed by will, by Court order under the Family Protection Act 1908, or by deed of arrangement, and paid out of income, to be claimed as a deduction, and for income derived from Western Samoa and chargeable with income tax there, to be exempted from income tax in New Zealand. Certain transfers or settlements of income (not including those made prior to 24 November 1950) are to be disregarded for income tax purposes and the transferor or settlor remains liable for tax as if these had not been made. Other sections exempted the Christmas Island Phosphate Commission from taxation, and empowered the Commissioner to grant relief from payment of income tax of up to £100 without the necessity of obtaining the Minister's approval.

The 1951 amendment made the New Zealand Forest Service liable for income tax in respect of commercial enterprises. It exempted from income tax the pay of servicemen in operational areas; provided for universal superannuation to be assessable for income tax; and that profits from dealing in property are to form part of assessable income. In suitable cases the Commissioner is authorized to extend the time for application to spread excess income derived on the sale of livestock where unduly low standard values have been adopted. Assessments may be remitted at any time where liabilities are remitted. The 1952 amendment exempted from taxation the income of milk-treatment companies in which the shares are held wholly by persons or companies which are themselves exempt; extended the existing exemption so that any war pension or police disability pension granted by the Government of any country (including foreign) will be exempt; and enabled the Commissioner to refund any deposit made in respect of deferred maintenance in any case where the asset concerned has been sold or otherwise disposed of by the taxpayer, the refund being treated as income derived the year in which the asset is disposed of or in any earlier year in which the deduction was allowed, at the option of the taxpayer. Two sections amended the provisions in respect of standard values to be adopted for livestock. The first enabled the executor to elect that, instead of stock being valued at the date of death or market value for income tax purposes, it may be valued either at the existing standard value or at a new standard value between the existing standard value and the market value. The second provided that where a farmer makes a gift of livestock to his child for use in a farming business the livestock is, for income tax purposes, to be deemed to be sold to the child at its market value or, if the taxpayer so elects, at the actual price (if any) charged to the child or at the existing standard value, whichever is the greater. This is subject to the power of the Commissioner to require the price so adopted to be increased to what he considers reasonable, having regard to standard values generally adopted. The amendment also extended the special method of assessing the taxable income of gold, mercury, or schist mining companies to certain other classes of mining companies. Part II of the amendment made provision as to the taxation of Maori authorities and Maoris, as a consequence of the report of the Commission of Inquiry on this subject.

By the Finance (No. 2) Act 1952 relief was given in respect of income tax payable by executors of the estates of sheep farmers who died during the year ended 31 August 1951, the period of abnormally high wool prices. Executors may apply to have the sheep owned by the deceased valued at the date of death for taxation purposes at a "basic value," being the average of the values prevailing a year before and a year after the date of death.

The Land and Income Tax Amendment Act 1953 provided for increases in various exemptions—*e.g.*, personal exemption, from £200 to £230, aggregated assessments, £400 to £460, special exemption for each dependent child or other dependent relative (including foster-child), from £50 to £65, special exemption in respect of life insurance premiums and superannuation contributions, from £150 to £175 maximum, and the special exemption for the wife or husband of a taxpayer so that it becomes £100, diminished at the rate of £1 for every complete £1 of income over £100. The Act allows losses to be set off against income for the six following years instead of three as formerly. Allowances for special depreciation on buildings, and for initial depreciation on farm equipment and accommodation, are extended to March 1955, together with provision for a revised assessment where assets are sold after the deduction of an initial depreciation allowance. An initial depreciation allowance of 30 per cent of the cost of new buildings erected by or for a taxpayer in business otherwise than as a farmer in order to provide accommodation for persons employed (other than wife, husband, or child) may be granted. Included in the remaining provisions is one which states that the income tax on interest from the 1953 National Development Loans, together with social security charge, is not to exceed 9s. 4d. in the pound, thus permitting a minimum return of not less than 2 per cent. The Land and Income Tax Amendment Act (No. 2) 1953 provides that a farmer may make deposits with the Commissioner of Inland Revenue to provide a reserve for making good any losses of livestock incurred from snow. Deposits (not to be less than £250) are to be deducted from assessable income for the year in which made, and added to income in the year in which refunded for the purpose approved by the Snow Loss Reserve Committee. If refunds for any other purpose are authorized (at less than £500 or balance) the income tax for the year in which the deposit was made is reassessed. Other sections include regarding all classes of royalties as assessable income, providing for the deduction from estate income of irrecoverable book debts of a deceased taxpayer, limiting the meaning of dividends, and re-enacting with amendments the provisions under which the income of proprietary companies is in certain cases assessable as income of the shareholders.

Statistics relating to the incidence of income tax are given in Section 35 of this volume.

Land Tax.—Land tax is assessed on the unimproved value of land after deductions provided for by statute have been made by way of special exemption. An owner of land, the unimproved value of which does not exceed £1,500, was hitherto allowed an exemption of £500, this being increased to £1,000 by the Land and Income Tax Amendment Act 1950; and where the unimproved value lies between £1,500 and £2,500 there is a similar exemption, diminished, however, by £1 for every £1 over the £1,500 mark, so that no exemption is allowed when £2,500 is reached.

Where the land is subject to a registered mortgage an alternative scale of exemption is provided—*viz.*, £7,500 in cases where the unimproved value does not exceed £7,500, the exemption of £7,500 being diminished by £1 for every £1 above the margin of £7,500 of unimproved value, and disappearing altogether at £15,000. Where the capital value of the mortgage is less than the amount of deduction provided, such capital value is deducted instead.

No special exemption is allowed in the case of land not situated in a borough when such land has been owned by a person for three years and not improved to the extent of £1 per acre or equal to one-third of the improved value if in the opinion of the Commissioner it should have been so improved. In the case of such land also, the rate of land tax is 50 per cent more than the ordinary rate.

In lieu of the special exemptions set out above, the Commissioner has discretionary powers to grant relief in certain specified cases of hardship. Subject to deductions provided, life tenants are liable to tax, and joint owners are assessed jointly as regards the land held in conjunction, and are liable severally in respect of each owner's interest in such land and any other land. This liability for joint assessment also applies to companies owning land if half of the paid-up capital or half (in nominal value) of the allotted shares of each company is held by or on behalf of shareholders in the other.

In case of default by a taxpayer in respect of land tax the amount of tax may be demanded from his successor in title, from a tenant of the taxpayer or his successor, or from a mortgagee of the estate or interest concerned. Land tax constitutes a charge on the land, and, notwithstanding any disposition of it, such land continues to be liable in the hands of a purchaser or other holder thereof for the payment of the tax so long as the charge remains in force. Registration of the charge is required, and no disposition of the land or of any interest in it may be registered while the charge remains in force. Provision is made for relief in cases of hardship.

The amount of the gift duty is payable by either the donor or the beneficiary, but the beneficiary is entitled to be indemnified by the donor unless the terms of the gift provide otherwise. Particulars of any gift made are required to be furnished for assessment of duty within one month of the date of the gift, and if not paid within one year of making of the gift, a 10 per cent penalty is imposed. Where duty is payable, the rate (since 30 June 1940) is based on the following scale.

Value of Gift	Rate of Duty Per Cent	
	£	£
Over 500 to 1,000	5	
Over 1,000 to 5,000	9	
Over 5,000 to 10,000	15	
Over 10,000 to 20,000	20	
Over 20,000	25	

Prior to 1920 there was a flat rate of 5 per cent on all gifts exceeding £1,000 in value. Gifts between £500 and £1,000 were made dutiable in 1930.

STAMP DUTIES.—The term "stamp duties" covers a miscellany of items of taxation imposed by the Stamp Duties Act 1923 and subsequent amendments. The 1951 Finance Act exempted comprehensive motor-vehicle insurance policies from stamp duty. The 1952 amendment to the principal Act abolished the duty of 2d. on receipts as from 8 August 1952, and exempted from stamp duty all agreements to which the Crown is a party.

The receipts for the last five years are shown under the various heads of stamp duties revenue as used in the public accounts.

—	Year Ended 31 March				
	1949	1950	1951	1952	1953
Adhesive stamps	182,721	214,172	339,806	237,923	226,416
Duty on instruments	530,800	596,992	1,161,000	1,436,588	1,309,371
Fines and penalties	2,363	2,341	2,527	2,985	3,102
Impressed stamps	339,555	355,547	386,436	422,137	428,010
Licences to companies	115,984	122,140	136,988	139,492	
Sharebrokers' licences	1,573	1,740	1,683	1,699	
Racing taxation	2,103,760	2,268,491	2,577,603	2,628,384	3,301,825
Amusement tax	243,766	256,716	236,373	308,976	396,306
Lottery duty	28,649	27,873	26,842	25,889	37,496
Overseas-passenger duty	37,036	2,598			
Mortgagees' indemnity fees	1,765	1,834	1,917		
Miscellaneous	3,894	3,414	3,664	3,509	
Totals	3,591,866	3,853,858	4,874,839	5,207,577	5,702,526

Several of the more important items included in the foregoing table are dealt with in more detail under subsequent headings.

RACING TAXATION.—The Government tax on totalizer (pari mutuel) turnover is 5 per cent of the gross amounts passed through the machines. This percentage was substituted in August 1930 (by Part I of the Finance Act 1930) for the former rate of 24 per cent, which had been in force since March 1910, prior to which the percentage was 1½. A refund of 24 per cent, raised from 1¼ per cent by the Finance Act (No. 2) 1935, of gross totalizer takings (up to a limit of £500) could be made to a racing club, the Minister of Internal Affairs having the right to specify the purpose or purposes for which the amount refunded in any case is to be applied.

By the Finance Act 1951 the tax on totalizer turnover and the refund (up to £500 limit) provisions are combined, so that clubs pay a reduced rate of duty (at the rate of 21 per cent of the first £20,000 of gross totalizer turnover received by a club in any year and 5 per cent on the balance in excess of £20,000), but are not entitled to any refund. The Consolidated Fund and the clubs each receive the same amounts of revenue under the new system as they did under former arrangements.

For some years prior to 1939-40 special provision was made annually for the racing clubs to retain for their own use a proportion of the totalizer duty payable under the Stamp Duties Act. From 1 April 1932 to 31 March 1934 the proportion was one-fifth, for the next twelve months it was one-tenth, and from 1 April 1935 to 31 March 1939 the former proportion of one-fifth was in operation.

From 1 November 1915 a tax of 1 per cent was imposed on the total value of all stakes, and a tax of 2½ per cent on totalizer dividends, in addition to the tax on totalizer turnover. The tax on dividends is computed on the gross amount paid into the totalizer for any horse race after deducting 12½ per cent (raised from 10 per cent by the Finance Act 1930) to cover the tax on totalizer turnover and the club's commission. From 22 December 1921 the tax on stakes was increased to 10 per cent and that on dividends to 5 per cent. From 1 April 1924 the tax on stakes was reduced to 5 per cent, with a further reduction to 1 per cent from 1 August 1935.

The Gaming Amendment Act 1953 made provision for the Minister of Internal Affairs to grant totalizer licences for not more than twenty-three days of racing in addition to the existing number of 339 days in any racing year. The Totalizer Agency Board, established by the Gaming Amendment Act 1949 to conduct off-course betting, receives 7½ per cent of the turnover made through totalizer agencies, and a levy for five years from 1 November 1950 of an additional 4 per cent of all totalizer turnover prior to the payment of dividends is deducted by racing clubs and paid to the Board. The proceeds of this levy are used solely for capital expenditure, to meet operating losses, and to create

reserve funds for these purposes, the proceeds being exempt from income and social security taxes. The Gaming Amendment Act 1953 provides for the continuation of the ½ per cent levy for a further period of five years from 1 November 1955 to 1 November 1960, but during that period the levy is to be paid, where the levy is deducted by a racing club or hunt club, to the New Zealand Racing Conference and, where it is deducted by a trotting club, to the New Zealand Trotting Conference. Each Conference is to pay the moneys received by it into a separate account, which is to be applied solely for the purpose of assisting clubs to provide, maintain, and replace amenities for the public and course improvements on their courses. The proceeds of the levy and the amounts paid by the Conferences to clubs are not to be subject to income tax or social security tax.

The following figures relate to the racing year, which ends on 31 July. Although racing is still largely restricted to Saturdays and public holidays, permits had been raised by 1947 to equal the pre-war totals after being reduced to 163 in the mid-war period.

—	Year Ended 31 July				
	1949	1950	1951	1952	1953
Number of racing days	320	338	352	359	359
Number of races	2,560	2,703	2,808	2,872	2,876
	£	£	£	£	£
Amount of stakes	1,406,658	1,449,377	1,545,685	1,589,763	1,530,190
Totalizer turnover—					
On course	22,837,195	25,041,532	27,004,002	27,401,289	23,780,233
With T.A.B.*			125,452	3,546,790	13,059,138
Totals	22,837,195	25,041,532	27,129,454	30,948,079	36,839,371
Amount paid in dividends	18,881,700	20,706,416	22,340,310	25,474,620	30,348,185
Government taxes—					
On totalizer turnover	1,141,860	1,252,077	1,356,472	1,547,404	1,779,638
On dividends	998,971	1,095,334	1,181,487	1,345,897	1,602,363
On stakes	14,066	14,494	15,457	15,898	15,302
Totals	2,154,897	2,361,905	2,553,416	2,909,199	3,397,303
Percentage of totalizer turnover retained by clubs	1,712,790	1,878,115	2,034,709	2,317,346	2,822,775
Unpaid fractions†	101,874	109,590	111,491	108,067	102,223
Refunds of taxation granted to clubs	59,721	59,894	53,886	153,361	—
Levy of ½ per cent for Totalizer Agency Board			104,985‡	154,745	184,196

* The Totalizer Agency Board commenced operations in April 1951.

† Retained by the clubs.

‡ The Finance Act 1951, by amending the provisions relating to payment of totalizer duty, obviated the payment of refunds.

§ Eight months of year only.

For the financial year ended 31 March 1953 Government receipts from racing taxation amounted to £3,301,825, as compared with £2,628,384 in 1951-52.

The rising tendency in the volume of betting as measured by totalizer turnover continued during the racing year ended 31 July 1953. For this period a record amount of £36,839,371 was handled by totalizers, as compared with the previous highest figure of £30,948,079 in 1951-52. This increase was due to the extended activities of the Totalizer Agency Board, the turnover with this organization amounting to £13,059,138 in 1952-53, an increase of £9,512,348 over the previous year. On the other hand there was a decline of £3,621,056 in on-course betting, the figures for 1951-52 and 1952-53 being £27,401,289 and £23,780,233 respectively.

Of the amount placed on the totalizer in 1952-53, 82.4 per cent was returned by way of dividends, Government taxes absorbed 9.2 per cent, the Totalizer Agency Board levy amounted to 0.5 per cent, and 7.9 per cent was retained by the racing clubs.

Of the 359 racing days in the 1952-53 racing year, 250 were devoted to racing (galloping) meetings and 109 to trotting meetings. It should be mentioned, however, that a number of racing clubs include trotting events in their programmes, but there are no trotting clubs which cater in a similar manner for gallopers. Of the total turnover during the year, £27,797,124 was placed at racing meetings and £9,042,247 at trotting meetings, giving an average of £111,188 per day for racing clubs and £82,956 per day for trotting clubs. Stakes paid at racing meetings totalled £1,093,925, the average amount per race being £547, while at trotting meetings the total was £436,265, and the average amount per race £506.

Doubles totalizer turnover increased from £4,506,859 in 1951-52 to £7,678,281 in 1952-53. This is an increase of £3,171,422, or 70.4 per cent. Of the total doubles turnover £6,349,298 was placed at racing meetings and £1,328,983 at trotting meetings.

AMUSEMENT TAX.—A form of tax first introduced in 1917 is the amusement tax, levied on payments for admission to entertainments. The present authority is the Amusement Tax Act 1952 as amended in 1953. The latter frees from amusement tax all entertainments not included in the new definition of entertainment; in particular, lectures and wholly amateur concerts, and all games and sports and field events except those specifically mentioned being exempt. Entertainments taxable are horse race or dog race meetings; professional boxing or wrestling; any circus or an animal rodeo where the performers, producers, or managers are paid, but being a rodeo promoted by an agricultural and pastoral society; speedway motor racing where performers, producers, or managers are paid; motion picture shows, but not lectures illustrated by motion pictures; and any stage performance (play, ballet, vocal or instrumental performance, variety show, or other exhibition, not being a lecture or talk or band contest) in a theatre or hall where the performers, producers, or managers are paid.

Exemptions re-enacted are—(a) where proceeds are devoted to charitable, philanthropic, or educational purposes in New Zealand or to patriotic purposes, where the performers receive no part of the proceeds and expenses are reasonable, (b) those promoted by the National Council or a Regional Council of Adult Education, if net proceeds are devoted to cultural and educational purposes approved by the National Council, and (c) plays, ballets, and musical entertainments promoted by certain New Zealand non-profit societies, if the proceeds are devoted to the objects of the society, and expenses are reasonable.

The following net amounts have been collected during the last eleven years.

Year Ended 31 March	Amount Collected
1943	107,433
1944	148,225
1945	155,943
1946	178,450
1947	226,569
1948	221,209
1949	243,766
1950	256,716
1951	236,373
1952	308,976
1953	396,306

FILM-HIRE TAX.—Part V of the Finance Act 1930 imposed, as from 1 July 1930, a film-hire tax, which is payable monthly by holders of renters' licences under Part IV of the Cinematograph Films Act 1928.

The film-hire tax payable is assessed on the net monthly receipts derived by the renter from renting sound-picture films. On British Commonwealth films the tax is 10 per cent and on foreign films 25 per cent of the net receipts. Films made wholly in New Zealand are exempt from the tax. The film-hire tax yielded a revenue of £108,285 in 1948-49, £112,701 in 1949-50, £106,702 in 1950-51, £112,541 in 1951-52, and £135,348 in 1952-53.

SOCIAL SECURITY TAXATION.—The Social Security Act 1938 provided for the establishment of a Social Security Fund with special taxation (as from 1 April 1939) superseding employment promotion taxation.

Under the original Act the contributions to the Social Security Fund consisted of a registration fee and a charge on salaries, wages, and other income for all persons over sixteen years of age. For males over twenty years of age the registration fee was 5s. per quarter, and for all other persons over sixteen years of age 5s. per year; while for all persons over sixteen years of age the charge on salaries, wages, and other income was 1d. in every 1s. 8d. or part thereof. The Finance Act (No. 2) 1945 abolished the registration fee, the effective date being 1 April 1946. The same Act increased the social security charge to 1½d. for every 1s. 8d., the new rate applying to all salaries and wages in respect of any period after 12 May 1946, and in the case of income other than salaries and wages to all such income derived during the year ended 31 March 1946 and subsequent years. The income of companies was exempt from the former employment promotion taxation, but is liable for social security taxation.

Receipts from social security taxation during each of the last five financial years have been as follows.

Year Ended 31 March	Charge on—			Registration Fee, etc.	Totals
	Salaries and Wages	Other Income			
	£	£	£	£	£
1949	16,744,529	12,633,856	125	29	29,378,510
1950	18,766,780	12,935,790	285	31	31,702,855
1951	20,650,975	15,115,261	201	35	35,766,437
1952	24,318,138	19,294,730			43,612,868
1953	26,650,922	18,857,016			45,507,938

SALES TAX.—Sales tax was inaugurated in New Zealand on 9 February 1933. Numerous classes of goods were exempt from the tax, these being, in the main, commodities of primary production, articles used in the primary industries, machinery for use in manufacture, and the more important foodstuffs for household consumption. Goods exported from New Zealand are exempt, as are also certain commodities (e.g., motor spirits) which are subject to special taxation.

The tax was at the rate of 5 per cent of the sale value of the goods to which it applied, but in June 1940 and again in May 1942 increases of a further 5 per cent and 10 per cent respectively were made for war taxation, the extra revenue thus accruing being paid direct to the War Expenses Account. Certain items, such as apparel, footwear, woollen piece-goods and yarns, and certain additional foodstuffs, were exempt from the additional 10 per cent, but in the case of wine manufactured in New Zealand an additional charge of 20 per cent was added until its removal dating from 3 September 1951. As from 1 April 1946 the total receipts from this tax have been credited to the Consolidated Fund. As from 16 August 1946 a number of classes of goods previously subject to the tax have been exempted, the principal of these being building materials, furniture, clothing, and footwear. Further items exempted from sales tax, chiefly home-labour-saving devices, were notified as from 10 March 1950. As from 25 August 1950 a wide range of articles commonly used in homes, together with some items more particularly used by farmers, were also exempted from sales tax, further exemptions being made as from 27 August 1951. Discount ranging from 1 to 2½ per cent (reduced from 5 per cent in June 1940) of the amount of tax otherwise payable is allowed for prompt payment. The lay is not a turnover tax, being payable once only and, as far as possible, at the point where the goods pass to the retailer. The Sales Tax Act is administered by the Customs Department. The net amount yielded by the sales tax during each of the last five years has been: 1948-49, £14,105,224; 1949-50, £14,785,320; 1950-51, £16,827,106; 1951-52, £21,811,375; and 1952-53, £21,991,703.

Monthly figures of sales tax collected during the four calendar years 1950-53 have been as follows.

Month	Total Sales-tax Receipts			
	1950	1951	1952	1953
	£	£	£	£
January	1,426,481	1,782,801	2,972,632	1,845,074
February	923,770	843,794	1,808,587	766,663
March	1,560,963	1,782,749	2,250,344	2,170,602
April	842,722	1,117,743	2,337,642	1,681,326
May	1,812,930	1,768,255	2,139,415	1,617,718
June	1,512,455	1,571,168	1,491,423	1,709,269
July	1,330,310	1,696,082	2,355,965	1,705,181
August	1,349,637	1,855,780	1,820,616	1,618,047
September	1,551,645	1,004,563	1,752,031	1,819,363
October	1,539,087	2,595,317	1,969,919	1,768,154
November	1,578,401	2,023,101	917,587	1,532,004
December	1,523,031	1,669,598	2,749,472	2,389,798

The collections during a month relate in general to sales during the preceding month.

The foregoing statistics indicate, in a measure, the comparative distribution of merchandise trading operations throughout the year. The following table of receipts from the sales tax gives some indication of comparative trading operations in the principal centres. These figures and those in the preceding table are compiled from monthly departmental returns and in most cases differ slightly from the final Treasury figures shown earlier.

Year Ended 31 March	Auckland		Wellington		Rest of North Island		Christchurch		Dunedin		Rest of South Island		Total*
	£	£	£	£	£	£	£	£	£	£	£	£	
1949	3,938,952	6,456,314			784,351	1,570,008	1,038,263	482,186	14,311,089				
1950	4,284,697	6,521,145			914,610	1,706,419	1,042,999	531,540	15,050,817				
1951	4,809,711	7,957,916			929,934	1,948,209	1,136,560	604,424	17,449,562				
1952	6,502,860	9,786,704			1,116,686	2,635,127	1,470,775	704,923	22,331,710				
1953	6,316,959	10,096,866			1,119,658	2,445,639	1,445,037	720,682	22,216,409				

* Includes receipts through Post and Telegraph Department.

LOCAL TAXATION.—Local governing authorities have power under various Acts of the Legislature to impose taxes for general or special purposes, as set out in Section 31 of this Year-Book. The amount of revenue collected by local authorities during the five years ended 31 March 1952 was as follows.

Year Ended 31 March	Rates	Licences and Other Taxes		Total	Per Head of Mean Population		
		£	£		£	£	s.
1948	9,806,859		906,773	10,713,632	5	18	6
1949	10,797,084		1,018,999	11,816,083	6	8	2
1950	11,644,748		1,121,886	12,766,634	6	15	9
1951	12,577,017		1,240,869	13,817,886	7	4	1
1952	14,513,766		1,396,104	15,909,870	8	2	5

The figures are exclusive of wharfage dues, tolls, etc., received by Harbour Boards, such receipts being regarded as in respect of charges for services.

30 C—STATE INDEBTEDNESS

GENERAL.—The principal legislative measure which is concerned with public indebtedness is the New Zealand Loans Act 1953, which consolidated the 1932 Act and its amendments, including the National Development Loans Act 1941.

The latter Act provided for the establishment within the Public Account, as from 1 April 1942, of a National Development Loans Account into which all moneys raised by way of loans for national development are paid. The amounts so raised since the inception of this Account to 31 March 1953 totalled £226,417,024, of which £25,441,900 was raised in 1952–53, including £13,824,515 from national savings accounts. Moneys are transferred from this Account as required, the amounts transferred during the last three years being given in Section 30A. The balance in the Account at 31 March 1953 was £4,387,199.

The Minister of Finance may raise loans, when authorized by Parliament so to do, by the issue of debentures, or scrip, or stock, in New Zealand or elsewhere at his discretion. When raising a loan the Minister may prescribe the mode and conditions of repayment, the rates of interest (not exceeding the maximum rate fixed by the authorizing Act), and the times and places of payment of principal and interest respectively. Power is given to convert debentures or scrip into consolidated stock, and the Minister may specify the terms of conversion at the time when a loan is raised, or arrange that terms shall be subsequently agreed upon. For the purpose of paying off or renewing at maturity any debenture, scrip, or other security, new debentures or other securities may be issued and disposed of if necessary. Authority also exists for the conversion of loan money which has not yet matured, as well as for the redemption and cancellation of securities before maturity. The management of the public debt was transferred to the Reserve Bank of New Zealand as from 1 October 1936.

The money composing the public debt has been borrowed on the security of the public revenues of New Zealand. No portion of the public estate is pledged for payment of either principal or interest.

National Savings.—The National Savings Act 1940 made wider provision for the investment of savings than the former Post Office investment certificates (E1 and upwards) issued during the First World War. Although the Act provides that investments made in accordance therewith shall be applied in like manner to receipts from the sale of the Post Office investment certificates—i.e., available for the purposes of any loan authorized by Parliament—the immediate object was to assist in financing the Second World War. Two forms of investment were provided—(a) Deposits in national savings accounts with the Post Office and certain authorized trustee savings banks; and (b) Purchase of national savings bonds. These investments are approved trustee securities, and bear interest at the rate of 3 per cent per annum.

Deposits in national savings accounts cannot be withdrawn at will, but are invested for a definite period. Moneys deposited up to 30 June 1943 were repayable on 30 June 1945, and each subsequent investment period is for a term of two years—i.e., deposits made during the year ended 30 June 1952 are repayable on 30 June 1954, and so on. National savings bonds are issued in three denominations—£1, £10, and £100—and are for a term of five years.

Recording of Public Debt.—At the commencement of the financial year 1943–44 a change in practice was effected in regard to the treatment of exchange on overseas transactions. As from that date the cost of exchange has been treated as a part of the payment from which it arose, and not accounted for in the public accounts under the one heading of "Exchange," as was the previous practice.

It was further decided that Government funds and investments held in the United Kingdom as at 1 April 1943 and all subsequent overseas transactions were to be converted into pounds New Zealand at a fixed exchange rate of 25 per cent and brought into the public accounts at the increased figure. Previously pounds New Zealand and pounds sterling were treated as if they were of the same value, despite the fact that New Zealand currency for many years had been at a discount on sterling.

In keeping with the foregoing decisions, that portion of the public debt domiciled in the United Kingdom, which was previously shown only at the sterling figure, has also been converted to pounds New Zealand, and the whole of the debt is shown in the debt tables in New Zealand currency in addition to the nominal amounts. The nominal increase resulting from the adjustment as at 1 April 1943 was £39,568,574.

With the adjustment of the exchange rate as from 20 August 1948 New Zealand currency again became on a par with sterling. To facilitate comparison over a period on a common basis the public debt tables in this Section have, in general, been so shown that either nominal amounts or the amounts in New Zealand currency can be readily ascertained.

The Finance Act (No. 2) 1952 in redefining the term "public debt" excluded from the debt those loans funded by agreement with the United Kingdom Government under the authority of section 8 of the Finance Act 1922. The public debt figures throughout this Section have therefore been adjusted to be on a comparable basis and exclude the amount of £24,100,200 (EN.Z.30.125.250 for years 1932–48—i.e., the years in which the New Zealand pound was at a discount of 25 per cent on sterling) funded in terms of the 1922 Act, and in respect of which interest payments have been suspended by agreement with the United Kingdom Government since 1931. This amount originally formed part of the First World War debt.

An amount of £2,090,909 (EN.Z.2.613.639 for years 1932–48) raised for State Advances purposes but on which interest payments have been also suspended since 1931 is, however, regarded as part of the public debt and is accordingly included in the figures.

GROSS INDEBTEDNESS.—On only five occasions in the history of New Zealand has a reduction in the gross public debt been effected during the financial year. The first occasion was in 1891–92, when the debt was reduced by £117,282; and the second in 1922–23, when after slight reduction (£101,061) was recorded. The third occasion was in 1934–35, when the floating debt of £22,856,981—comprising outstanding Treasury revenue bills amounting to £3,452,109 and Treasury bills for £19,404,872 in respect of the Banks Indemnity (Exchange) Act—was entirely paid off. The fourth occasion was in 1947–48, the debt being reduced by £3,137,446 in New Zealand currency (having regard to exchange rate relationships existing prior to 20 August 1948), or £302,043 if nominal amounts only are taken into account. The fifth occasion was in 1951–52, the debt being reduced by £13,571,145 by the sale of State Advances stock, held by Treasury, to the Post Office Savings Bank, and an equivalent amount of Government stock, held by the Savings Bank, being redeemed.

The gross indebtedness of the General Government and the rate of indebtedness per head of population (inclusive of Maoris) for each of the last twenty-one years are given in the following table.

The figures are given in two series, the first showing the debt at the nominal amount throughout the period 1933–53, and the second, covering the same period, with the debt shown in New Zealand currency. In the latter case the amount of overseas debt has been converted to New Zealand currency at the rate of exchange ruling during the period.

As at 31 March	A—Nominal Amounts				B—In New Zealand Currency				
	£	£	s.	d.	£	£	s.	d.	
1933	258,522,758	168	1	9	1933	292,847,885	190	8	1
1934	278,691,796	179	15	9	1934	312,893,772	201	17	0
1935	256,481,017	164	6	2	1935	289,894,163	185	14	3
1936	258,460,898	164	4	4	1936	291,320,271	185	1	10
1937	263,570,000	166	1	2	1937	295,945,519	186	9	2
1938	266,101,142	165	17	0	1938	298,506,061	186	0	11
1939	279,870,072	172	5	2	1939	313,058,276	192	13	9
1940	298,807,336	182	2	0	1940	332,248,104	202	9	7
1941	325,327,375	198	16	7	1941	358,895,222	219	6	11
1942	361,297,533	221	1	4	1942	393,711,374	240	18	0
1943	439,725,172	269	1	11	1943	473,268,697	289	12	5
1944	502,616,861	305	15	0	1944	536,368,767	326	5	7
1945	539,317,616	321	0	7	1945	573,113,162	341	2	11

As at 31 March	Amount	Per Head of Population		As at 31 March	Amount	Per Head of Population			
		£	s.			£	s.		
A—Nominal Amounts				B—In New Zealand Currency					
1946	570,231,319	324	11	11	1946	594,386,340	338	6	11
1947	580,471,490	324	7	8	1947	604,626,511	337	17	7
1948	580,169,447	317	7	6	1948	601,489,065	329	0	9
1949	617,076,540	330	19	0	1949	617,076,540	330	19	0
1950	645,971,142	339	9	5	1950	645,971,142	339	9	5
1951	669,324,478	345	7	3	1951	669,324,478	345	7	3
1952	655,753,333	330	8	0	1952	655,753,333	330	8	0
1953	669,779,443	328	14	4	1953	669,779,443	328	14	4

* See, however, page 603 of 1940 Year-Book.

The figures include £2,090,909 (EN.Z.2.613.639 for years 1932–48) raised for State Advances purposes. Interest payments on this amount have been suspended since 1931 by agreement with the United Kingdom Government.

An amount of £801,881, representing outstanding advances by way of overdraft in respect of the purchase of foodstuffs and other commodities under the authority of section 5 of the Marketing Amendment Act 1949, is not included in the public debt as at 31 March 1953.

State guarantees cover such items as the guarantee to policy-holders of the Government Insurance Department under the Government Life Insurance Act 1908; the guarantee to the Reserve Bank under the Finance Act 1934 in respect of sterling exchange (which was exercised in the case of the adjustment of the New Zealand currency exchange rate to parity with sterling as from 20 August 1948); the guarantee under the Finance Act (No. 2) 1946 to the Reserve Bank in respect of moneys advanced to Governments of other countries in respect of the purchase of New Zealand produce; guarantees to certain undertakings under the State Advances Corporation Act and certain local authority loans. There were also certain contingent State liabilities in respect of the various Government Superannuation Funds and in respect of £24,100,200 funded debt (EN.Z.30.125.250 for years 1932–48) referred to earlier.

At 31 March 1953 the amount of contingent loans outstanding in respect of State Advances Corporation stock and debentures, the major portion of which is at present held by the State in consideration of the transfer of property securities from the State to the Corporation, was £95,722,590; and in addition there was a further amount of £1,743,031 in respect of loans to industries by the Corporation.

The Hutt Road Act 1939 made provision whereby the Wellington City Council was to be kept indemnified from all liability in respect of certain loans which at the time of the passing of the Act amounted to £276,020. The amount outstanding under this agreement at 31 March 1953 was £20,600, against which the Public Trustee held sinking funds totalling £16,461.

In respect of the guarantee to the Czechoslovak Republic for the purpose of financing purchases of New Zealand produce, credits granted as at 31 March 1953 amounted to £5,018,750 to the Government of the French Republic and £999,864 to the Government of the Czechoslovak Republic for the purpose of loan.

CLASSIFICATION OF PUBLIC DEBT.—A broad classification of the public debt according to nature or purpose is contained in the following table, the distinction being made on the basis of whether raised for ordinary purposes, war purposes, or housing. It should be noted that the debt is expressed in terms of nominal amounts, these differing from figures in terms of New Zealand currency for the 1940 year now.

Class	Gross Debt as at 31 March					
	1920	1930	1940	1950	1952	1953
	£	£	£	£	£	£
Ordinary	121,081,730	197,599,818	247,308,296	360,357,600	370,507,587	387,130,904
Housing			11,558,945	57,330,720	68,503,034	74,959,608
War loans (1914–18)	80,089,025*	69,783,525*	36,854,040	26,575,217	18,103,879	9,050,098*
War expenses (1939–45)			3,086,055	201,525,605	198,638,833	198,638,833
Totals	201,170,755	267,383,343	298,807,336	645,971,142	655,753,333	669,779,443

* Includes debt due to United Kingdom Government (see p. 728).

The total of 1914–18 war loans amounted originally to £82,245,673, of which approximately £49,000,000 had been redeemed to 31 March 1953, and £24,100,200 remains as a contingent liability of the New Zealand Government, interest payments on the latter having been suspended by agreement with the United Kingdom Government since 1931. This contingent liability does not form part of the public debt by virtue of the Finance Act (No. 2) 1952. The amount per head of population for each class as at 31 March 1953 was as follows: ordinary, £190; housing, £36 16s.; war, 1914–18, £4 9s.; war expenses, 1939–45, £97 10s.

A more detailed allocation of the debt as at 31 March 1952 and 1953 is now given.

	1952	1953
	£	£
Railways	91,119,055	97,901,568
Hydro-electric schemes	62,227,878	75,455,726
Post and telegraph services	28,657,453	32,413,841
Public buildings	13,515,885	5,713,594
Education buildings	22,074,248	19,390,478
Roads and highways	53,773,074	57,787,415
Harbours and lighthouses	400,000	400,000
Forests (State)	10,010,362	10,695,593
Housing	68,503,034	74,959,608
Land settlement and improvement	30,714,633	30,561,822
Soil conservation, irrigation, and drainage	9,072,904	10,117,318
Shares in Bank of New Zealand	7,864,950	7,790,855
New Zealand National Airways Corporation	1,200,000	1,200,000
British Commonwealth Pacific Airlines, Ltd.	541,935	541,935
British Petroleum Co. of New Zealand, Ltd.	1,275,000	1,275,000
New Zealand Woolpack and Textiles, Ltd.	150,000	150,000
Christmas Island phosphates	1,447,358	1,428,568
Mining	6,418,272	6,804,035
Tasman Empire Airways, Ltd.	375,000	375,000
Tasman Pulp and Paper Co., Ltd.		200,000
Reserve Bank exchange adjustment	20,000,000	20,000,000
War Loans (1914–18)	18,103,879*	9,050,098*
War expenses (1939–45)	198,638,833	198,638,833
National Development Loans (balance)	2,884,299	387,199
Miscellaneous assets and services	2,676,726	2,368,104
Cash and investments in hand	4,108,555	4,172,853
Totals	655,753,333*	669,779,443*

* Excludes contingent liability in respect of debt due to United Kingdom Government (see page 728).

MOVEMENT IN PUBLIC DEBT DURING 1952–53.—A summary of transactions in connection with the public debt during the year ended 31 March 1953 is as follows.

	Amount Outstanding at		
	31 March 1952	31 March 1953	* Increase – Decrease
	£	£	£
External debt: London	79,898,753	79,881,093	—17,660
Internal debt—			
Long-term debt	512,254,580	533,898,350	+21,643,770

	Amount Outstanding at		
	31 March 1952	31 March 1953	+ Increase - Decrease
Floating debt	63,600,000	56,000,000	-7,600,000
Totals	655,753,333	669,779,443	+ 14,026,110

A more detailed statement which shows also the main purposes for which loan moneys were raised during the year 1952-53 is now given.

	£	
External debt decreases—		
London: Transfer to New Zealand Register		17,660
Internal debt—		
Increases—		
New issues for—		
National development purposes	25,441,900	
Repayments in New Zealand	7,498,875	
Transfer from London Register	17,660	
Total increases, internal debt	32,958,435	
Decreases—		
Repayments from—		
Loans Redemption Account	11,482,005	
New issues in New Zealand	7,432,660	
Total decreases, internal debt	18,914,665	
Net increase in internal debt		14,043,770
Net increase in total public debt		£14,026,110

PUBLIC DEBT CONVERSION SCHEMES AND NEW LOANS.—A scheme of conversion of practically the whole of the locally domiciled debt bearing interest higher than 4 per cent was successfully carried out in the early part of 1953. Holders had the option of dissenting, but interest on the dissented portion was made subject to an interest tax of 3½ per cent. Holders who signified neither assent nor dissent were regarded as having assented.

Details of this conversion and of other conversions during the period up to 31 March 1945, together with a schedule of war loans over the period 1940-45, are given on pages 503-504 of the 1950 issue of the Year-Book. Information covering conversions and new loans from 1 April 1945 to date are given in the following paragraphs.

A conversion offer was made in London to holders of £7,580,907 4½ per cent stock repayable on 1 March 1945 and £9,657,280 3 per cent stock repayable on 1 April 1945. New stock was offered at 3¼ per cent maturing on 1 September 1962-65, with a cash payment of 10s. per cent to holders who converted. Applications for new stock totalled £14,904,247, and the balance of £2,333,940 was taken up by the Reserve Bank.

A conversion offer in respect of an internal 4 per cent loan totalling £8,931,480 maturing on 15 April 1949, but in respect of which the Government had the option to repay on or after 15 April 1946, was made in December 1945. The new securities offered were 3 per cent stock issued at par and maturing on 15 April 1960-63. Holders of the £2,426,365 of 4 per cent stock who did not accept the conversion offer were repaid in cash on 15 April 1946.

A conversion offer was made in London in June 1948 to holders of £16,000,000 sterling 4½ per cent inscribed stock maturing on 1 March 1958, with the option of repayment at par on or after 1 March 1948. New stock at 3 per cent maturing 1 September 1966-68 was issued in exchange, while of a further amount of £3,225,465 4½ per cent stock, £225,465 was repaid and the balance of £3,000,000 transferred to New Zealand domestic.

A £7,322,579 3½ per cent loan domiciled in London and maturing on 1 February 1949-54 was dealt with in June 1949 by conversion of £7,000,000 into 3 per cent stock maturing 1 June 1973-77 and by repayment of the remaining £322,579 in cash.

In October 1949 a conversion offer was made in London to holders of £6,000,000 of a total of £7,500,000 5 per cent inscribed stock maturing on 15 December 1949. New stock at 3¼ per cent maturing 15 December 1963-66 was offered in exchange, while cash applications were for the redemption of the remaining £1,500,000 of 5 per cent stock.

A conversion offer in June 1949 in respect of three internal loans totalling £29,235,755 at par (2 per cent maturing 15 June 1947-49, 2½ per cent maturing 15 February 1949-50, and 4 per cent maturing 15 May 1949-52) resulted in £15,111,380 being reinvested in either 3 per cent stock maturing 15 June 1961-64, or 2½ per cent stock maturing 15 June 1954-55, and repayment in cash of £14,124,375.

A 5½ per cent loan of £1,250,000 domiciled in London matured on 1 February 1951. Of this amount £331,000 was repaid and the balance converted into 3¼ per cent stock maturing on 15 December 1963-66. A 5½ per cent loan of £(N.Z.) 6,628,226 domiciled in Australia was repaid at maturity date of 1 February 1951. On 15 April 1951 two internal 2½ per cent loans matured, totalling £10,048,000. Conversion was effected of £7,900,000 before the maturity date, the remaining £2,148,000 being repaid in cash on the maturity date.

In addition to the above classes of conversion loans, during the period 1946-50 there were four "tap" issues at par as follows: In 1946, £18,319,590 of 3 per cent stock maturing 15 July 1961-63 were issued; in 1947, £21,402,700 of 3 per cent stock maturing 15 July 1962-64; in 1948, £24,918,600 of 3 per cent stock maturing 15 July 1963-65; and in 1949-50, £19,288,825 of either 2½ per cent stock maturing 15 May 1955-56, or 3 per cent stock maturing 15 May 1964-66.

The 1950 National Development Loan was initiated in May 1950, the amount of £20,000,000 being oversubscribed by £941,670. Stock was offered either at 3¼ per cent repayable 15 August 1959-61, issued at 9½ per cent, or at 2½ per cent repayable 15 August 1954 issued at par. The 1951 National Development Loan was opened in May 1951, and the amount of £10,000,000 was oversubscribed by £3,218,000, the loan being closed earlier than the scheduled date of 27 June 1951. The stock was offered at 3 per cent at par and repayable 15 April 1960-62.

There were two issues of development loans in 1952-53; the first, the 1953 National Development Loan, was opened in May 1953, being in the nature of a £20,000,000 cash and conversion loan. Stock was offered at 3¼ per cent repayable on 15 May 1962 and issued at £98 10s. per cent. Either ordinary stock or death duty stock was issued at subscriber's option, the latter being available to meet income tax and social security charge in regard to deceased holders' estates as well as death duties. A minimum net return of 2 per cent on nominal value after payment of taxes was ensured by means of income tax rebates. The conversion offer concerned the 2½ per cent stock maturing October 1953 (First War Loan) on basis of £98 10s., maturing stock being equal to £100 nominal value of new stock. Conversions totalled £6,950,000 and cash subscriptions £15,480,000. The second issue of the 1953 National Development Loan of £10,000,000 was offered in September 1953 on the same terms as for the earlier issue. This loan was oversubscribed by a small amount.

A loan of £10,000,000 sterling was negotiated in London in 1953. It consisted of New Zealand Government 4 per cent stock issued at £98 10s. per cent and maturing 1976-78.

The New Zealand Government in early 1954 made arrangements for a 16,000,000 dollar loan from the United States Export-Import Bank to assist in the purchase of materials, equipment, and services for the development of the Manapua project. The interest rate payable to the bank is 4½ per cent.

The 1954 National Development Loan was opened in June 1954 for an amount of £30,000,000. Stock was offered at 3¼ per cent for (a) 5 years issued at £100 per cent, (b) 11 years at £98 per cent, (c) 15 years at £97 10s. per cent, or (d) 20 years at £97 per cent, the net yield for the three longer maturing stocks being approximately £3 19s. 6d. Ordinary or death duty stock alternatives and minimum net return conditions were similar to those for the 1953 loan. Holders of 3 per cent and 2½ per cent stocks maturing August 1954 were offered in exchange, stock in the new loan.

DOMICILE OF DEBT.—The table following shows, for each of the eleven years ending 31 March 1953, the amount of New Zealand's public debt domiciled in London, Australia, and New Zealand. All amounts shown are exclusive of the contingent liability due to the United Kingdom Government to which reference has been made elsewhere in this subsection.

At 31 March	Amount			Percentage of Total on New Zealand Currency Basis			
	London	Australia	New Zealand	London	Australia	New Zealand	
	£(Sig.)	£(N.Z.)	£(N.Z.)	Per Cent	Per Cent	Per Cent	
1943	134,174,098	167,717,623	862,300	304,688,774	35.44	0.18	64.38
1944	135,007,628	168,759,534	862,300	366,746,933	31.46	0.16	68.38
1945	135,182,183	168,977,729	861,300	403,274,133	29.48	0.15	70.37
1946	96,620,083	120,775,104	861,300	472,749,936	20.32	0.14	79.54
1947	96,620,083	120,775,104	861,300	482,990,107	19.98	0.14	79.88
1948	85,278,475	106,598,093	779,000	494,111,972	17.72	0.15	82.15
1949	82,053,009	82,053,009	628,226	534,395,305	13.30	0.10	86.60
1950	80,230,431	80,230,431	628,226	565,112,485	12.42	0.10	87.48
1951	79,899,153	79,899,153		589,425,325	11.94		88.06
1952	79,898,753	79,898,753		575,854,580	12.18		87.82
1953	79,881,093	79,881,093		589,898,250	11.93		88.07

During the period covered by the table the amount of the debt domiciled in London has decreased (on a New Zealand currency basis) by £87,836,530. Practically the whole of this decrease has occurred since 1945, the amount at 31 March of that year being £(N.Z.) 168,977,729, as compared with £(N.Z.) 79,881,093 at 31 March 1953. The amount domiciled in New Zealand, on the other hand, has risen during the ten years by £285,209,576.

MATURITY YEARS OF DEBT.—The maturity years of the debt outstanding at 31 March 1953 are shown in the following statement, which distinguishes between the various countries of domicile. All amounts shown may be regarded as being either in New Zealand pounds or in nominal amounts.

Loans Maturing in Year Ended 31 March*	Debt Maturing in—				Total
	London		New Zealand		
	Public	Departmental and other	Public	Departmental and other	
	£	£	£	£	£
Overdue			2,385		2,385
Treasury bills			56,000,000		56,000,000
1954			6,846,150	7,457,695	14,303,845
1955			6,918,310	5,482,480	12,400,790
1956	11,984,340	17,634,360	12,283,560	41,902,260	
1957			29,027,890	18,745,935	47,773,825
1958			22,599,160	118,954,315	141,553,475
1959			9,423,215	62,956,595	72,379,810
1960			6,839,235	32,515,880	39,355,115
1961	6,311,479	18,577,995	8,005,845	32,895,319	
1962			14,078,450	32,248,255	46,326,705
1963			5,456,120	10,734,910	16,191,030
1964	7,339,656	23,808,060	6,007,095	37,154,811	
1965			16,806,075	10,732,675	27,538,750
1966	17,238,187	5,986,360	12,268,110	35,492,657	
1967			6,918,722	6,846,125	13,764,847
1969			15,998,000		15,998,000
1972			5,000,000		5,000,000
1978			6,999,800		6,999,800
United Kingdom Government advances on which interest payments have been suspended since 1931			2,090,909		2,090,909
Totals			79,881,093	190,849,890	399,048,460

* In respect of many of the loans the Government has the option to redeem the securities at an earlier date on giving notice.

DEPARTMENTAL INVESTMENTS.—As shown in the preceding table, £399,048,460 of the public debt outstanding at 31 March 1953 was held by various Government Departments and quasi-Government organizations. A summary of these investments is as follows.

	£
Investments held by accounts within the Public Account	52,623,795
New Zealand Broadcasting Service	1,250,000
Marketing Department	250,000
Government Life Insurance	7,234,790
Government Superannuation Board	11,050,670
Maori Trustee	1,915,000
National Provident Fund	5,617,125
Post Office	108,468,000
Post Office: National Savings	58,200,000
Public Trustee	3,998,355
Reserve Bank	60,045,355
State Advances Corporation	1,740,380
State Fire Insurance Office—	
Accident Branch	1,367,500
Fire Branch	1,348,670
Dairy Industry Account	21,460,000
Meat Industry Account	38,498,785
Wool Commission Account	23,980,035
Total	£399,048,460

PRICES OF NEW ZEALAND STOCKS.—The following table gives the quotations in London for the principal new stocks (excluding accrued interest) in December of each of the years 1942-50 and at quarterly intervals from March 1951 to December 1953.

Date	3 Per Cent, 1952-55			3½ Per Cent, 1962-65			3 Per Cent, 1949-54			3½ Per Cent, 1960-64			5 Per Cent, 1956-71				
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		
1942—Dec. 3	91	5	0				96	16	3						108	1	3
1943—Dec. 2	97	5	0				99	16	3						114	11	3
1944—Dec. 7	99	15	0				101	12	6	104	16	3			116	10	0
1945—Dec. 6	99	17	6	102	10	0	101	12	6	103	11	3			117	5	0
1946—Dec. 9	104	12	6	112	17	6	103	3	9	113	11	3			123	1	3
1947—Dec. 3	99	8	9	103	3	9	101	3	9	106	1	3			116	1	3
1948—Dec. 2	102	17	6	104	18	9	101	6	3	106	13	9			116	8	9
1949—Dec. 29	101	10	0	98	15	0				100	18	9			110	16	3
1950—Dec. 1	101	12	6	100	0	0				102	2	6			110	12	6
1951—Mar. 5	101	11	3	99	17	6				100	17	6			109	17	6
June 7	100	10	0	97	17	6				99	16	3			108	0	0
Sept. 6	100	18	9	97	8	9				100	1	3			106	13	9
Dec. 6	98	10	0	93	3	9				95	16	10½			104	0	0
1952—Mar. 6	98	1	10	90	6	10½				93	13	9			103	3	1½
June 5	97	0	0	86	18	1½				91	1	10½			101	15	0
Sept. 4	97	14	4½	90	19	4½				93	14	4½			102	5	7½
Dec. 4	99	2	6	91	15	7½				94	16	10½			102	16	3
1953—Mar. 12	99	7	6	91	15	7½				95	8	1½			101	18	9
June 4	99	18	9	92	13	1½				95	4	4½			102	10	7½
Sept. 3	100	3	1½	93	19	4½				97	1	10½			102	18	1½
Dec. 3	100	0	0	94	15	7½				97	6	10½			103	1	3

* Redeemed.

INTEREST.—Of the public debt outstanding at 31 March 1952, approximately 30 per cent only of the total bore interest at a rate of 4 per cent or lower. Following on conversion operations and of a general decline in interest rates for new money in the succeeding years, the amount of debt bearing interest at a rate of 4 per cent or under at 31 March 1953 was £662,688,534, or 99 per cent of the total debt exclusive of that portion on which interest payments have been suspended since 1931 by agreement with the United Kingdom Government, while on £579,536,125, or approximately 87 per cent, the rate did not exceed 3 per cent. Of the debt domiciled in New Zealand at 31 March 1953, no less than 92 per cent was at rates of 3 per cent or under, the remainder (or 8 per cent) being at rates which did not exceed 4 per cent. A classification of the public debt as at 31 March 1953, according to the rates of interest payable and domicile, is contained in the following table, the values being in terms of New Zealand currency.

Rate of Interest (Per Cent)	Debt Maturing in—		Total	Gross Annual Interest Charge
	London	New Zealand		
	£	£	£	£
Overdue		2,385	2,385	
1		99,000,000	99,000,000	990,000
2 ½		161,510,955	161,510,955	3,988,048
3	34,982,140	284,040,645	319,022,785	9,570,681
3 ½	24,156,909	20,363,835	44,520,744	1,446,924
3 ½	13,651,135	11,517,500	25,168,635	880,902
4		13,463,030	13,463,030	538,521
5	5,000,000		5,000,000	250,000
Totals	77,790,184	589,898,350	667,688,534	17,665,076
United Kingdom Government advances on which interest payments have been suspended	2,090,909		2,090,909	
Totals	79,881,093	589,898,350	669,779,443	17,665,076

The total amount of interest payable on the public debt—i.e., the whole of the public debt less that portion upon which interest payments have been suspended by agreement with the United Kingdom Government—as at 31 March 1953 was £17,665,076, which gives an average rate of £2 12s. 11d. per cent.

The amount of interest and the average rate per cent payable on the debt domiciled in the respective markets were—

	Amount of Interest		Average Rate	
	£	s. d.	%	
London	2,562,353	3	5	11
New Zealand	15,102,723	2	11	2

The total of interest payments from the Consolidated Fund during the year ended 31 March 1953 was £17,320,982. Of this amount, £2,468,546 was paid in London, and £93,808 in New Zealand on account of debt domiciled in London, while the remaining £14,758,628 was paid in New Zealand in respect of internal debt.

The total amount of interest credited to the Consolidated Fund on account of capital liability of various enterprises during 1952-53 was £6,147,436, the contributing accounts being Post and Telegraph, £1,016,266; Electric Supply, £2,350,454; Housing Account, £959,404; Housing Construction, £92,523; Land Settlement Account, £1,537,737; under section 31 (3) of Land Act 1948, £375,000; New Zealand National Airways Corporation, £42,000; and State Coal Mines Account, £131,652. Interest is also received from the investment of other public moneys, the total under this heading being £716,157, including £95,571 from the State Advances Corporation, £305,000 from the Public Account Cash Balance Investments Account, £50,658 from the Christmas Island Phosphate Commission, £24,500 from the British Phosphate Commission, £135,257 from the Deposits Account, and £48,239 from the National Development Loans Account. The total interest receipts of the Consolidated Fund were thus £6,893,593, leaving the net interest charges for the year £10,427,389, as compared with £10,375,605 in 1951-52.

In the following table, which covers the last eleven financial years, the cost of exchange on interest paid in London has been added to the gross interest payments for the years prior to 1943-44, in order to bring them into line with the practice adopted for subsequent years.

Year Ended 31 March	Gross Payments	Receipts	Credits in Reduction	Gross Payments, Less Receipts and Credits
	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)
1943	13,834,810	4,133,277	2,844,072	6,857,461
1944	15,613,270	4,281,922	3,250,678	8,080,670
1945	17,323,346	5,363,807	"	11,959,539
1946	18,584,434	5,857,264	"	12,727,170
1947	17,558,876	4,714,100	"	12,844,776
1948	17,825,052	5,002,728	"	12,822,324
1949	16,619,960	5,215,789	"	11,404,171
1950	16,736,819	5,886,354	"	10,850,465
1951	17,264,200	6,566,290	"	10,697,910
1952	17,712,640	7,337,035	"	10,375,605
1953	17,320,982	6,893,593	"	10,427,389
* Included with receipts.				

Administration and management charges in respect of debt services amounted to £264,407 in 1952-53, as compared with £201,885 in 1951-52.

AMORTIZATION OF DEBT: Public Debt Repayment.—With certain exceptions, the repayment of the public debt is now subject to the provisions of the New Zealand Loans Act 1953. For this purpose there is issued annually out of the Consolidated Fund—(a) a sum equal to ½ per cent of the total amount of the public debt outstanding at the end of the preceding financial year; (b) £2,865,000, being 4 per cent of the redemptions effected from 1 April 1925 up to 1 January 1954; (c) a sum equal to 4 per cent of the total amounts paid under section 59 of the Act between the commencement of the Act (1 January 1954) and the end of the preceding year. Provided that if the Minister of Finance so directs, any amount required to be paid under this section may be reduced by the amount paid into the Loans Redemption Account under paragraph (c) of section 57 of the Act, but the amount payable under paragraph (c) of this section in any subsequent year shall be computed as if no such reduction had been made. The bulk of the savings in interest on debt paid off is thus applied to further repayments of debt.

The annual contribution from the Consolidated Fund, formerly payable to the Public Debt Redemption Account, and since the abolition of the latter as from 1 April 1947 to the Loans Redemption Account, is utilized to redeem such securities as the Public Debt Commission determines, which are a charge upon the public revenues of New Zealand. All other moneys raised or available for the purpose of repayment of any loan forming a charge on public revenues are similarly paid into the Loans Redemption Account and utilized for the redemption of such securities charged upon the public revenues as the Minister of Finance from time to time determines.

Transactions involving merely the exchange of one class of securities for another of the same rate of interest and term, or where the only variation is an extension of the term by not more than two years, are not recorded in the Loans Redemption Account.

Redemption of the public debt under the provisions of the former New Zealand Loans Amendment Act 1947 during the year ended 31 March 1953 totalled £11,482,005, including £6,100,455 utilized from the annual contribution from the Consolidated Fund to the Loans Redemption Account, and the remaining £5,381,550 from other moneys in the Account.

The repayment scheme provided for under the New Zealand Loans Act 1953 does not apply to the whole of the public debt, moneys borrowed on the security of Treasury bills issued under section 41 of the Public Revenues Act 1953 and funded debt (refer page 737) being excluded.

Amounts devoted to the repayment or redemption of the public debt during each of the last five years are set out below, together with a brief statement of the class of debt affected by redemption operations.

Year Ended 31 March	Repayment of Loans (Section 12(a) of 1947 Act)	Amounts Utilized for Redemption			Class or Debt Affected by Redemptions
		Under Authority of Section 12 (b) of Loans Amendment Act 1947	Under Authority of Section 12 (c) of Loans Amendment Act 1947	Total Amount Utilized	
Item	Amount	£	£	£	£
1949	26,531,015		3,149,770	8,293,222	War expenses debt 7,071,523 Other debt 5,121,469
					War expenses debt 1,772,795
1950	45,610,828	5,487,065		1,815,910	War loans, 1914-18 3,714,270 Other debt 1,815,910
					War expenses debt 766,834
1951	15,908,389		1,422,178	7,110,934	Treasury bills redeemed 3,000,000 Other debt 4,766,278
					State Advances Corporation 34,044,850
					War loans, 1914-18 3,913,026
1952	2,725,400		5,518,526	38,776,499	Public Works Account 1,294,000 Linen Flax Corporation 300,000

Year Ended 31 March	Repayment of Loans (Section 12(a) of 1947 Act)	Amounts Utilized for Redemption			Class or Debt Affected by Redemptions
		Under Authority of Section 12 (b) of Loans Amendment Act 1947	Under Authority of Section 12 (c) of Loans Amendment Act 1947	Total Amount Utilized	
Item	Amount	£	£	£	£
1953	7,432,660		6,100,455	5,381,550	11,482,005 War loans, 1914-18 9,053,781 Other debt 2,428,224

The following table shows the amounts available for redemption for each of the last six years under the repayment scheme provided for by the New Zealand Loans Amendment Act 1947, the amounts utilized under section 12 (b) of that Act, and the nominal value of securities redeemed and cancelled to date under the provisions of the former Repayment of the Public Debt Act 1925 and of section 12 (b) of the New Zealand Loans Amendment Act 1947.

Year Ended 31 March	Balance of Amortization Contributions Unspent at Beginning of Year	Transfers from Consolidated Fund		Total	Utilized to Redeem and Cancel Securities	Nominal Value of Securities Redeemed and Cancelled to Date Under the Provisions of the 1925 and 1947 Acts
		One-half Per Cent of Defined Portion of Public Debt Outstanding at Beginning of Year	Four Per Cent of Total Amount of Defined Portion of Public Debt Redeemed or Repaid to Beginning of Year			
	£	£	£	£	£	£
1948	229,695	2,713,396	1,663,827	4,377,223	4,456,280	46,051,960
1949	150,638	2,671,078	1,842,078	4,513,156	3,899,770	49,951,730
1950	764,024	2,724,977	1,998,069	4,723,041	5,487,065	55,438,795
1951		2,839,977	2,217,552	5,057,529	1,422,178	56,860,973
1952	3,635,351	2,916,290	2,274,439	5,190,729	5,518,526	62,379,499
1953	3,307,554	3,278,767	2,625,000	5,903,767	6,100,455	68,479,954

Amortization of Funded Debt.—At 31 March 1922, £27,532,164 of New Zealand's public debt was owing to the United Kingdom Government, all but £1,191,919 of this being on account of war expenditure. Arrangements were made with the United Kingdom Government in 1922 for the funding of this debt.

The funding was carried out on an annuity basis of 6 per cent, the total payment each year (payable half-yearly at 1 June and 1 December) being £1,651,930. Interest was at the rate of £4 19s. 5 88d. per cent, the balance of the 6 per cent going to reduction of the debt.

Under the agreement the original amount of £27,532,164 would have been automatically discharged from the public debt by the end of the financial year 1958-59. The United Kingdom Government, however, following the Hoover proposals regarding war debts, voluntarily suspended New Zealand's obligations in respect of the funded-debt payments due in and since December 1931. On the other hand, a provision that any part of the funded debt may be redeemed at any time was taken advantage of in 1924, when £200,000 was paid off the Naval Defence Loan.

At the date of suspension total payments amounted to £15,067,370, of which £11,635,406 represented interest payments and £4,431,964 (including the £200,000 additional paid off Naval Defence Loan) reduction of principal leaving the outstanding balance of the funded debt at £24,100,200 (sterling).

The provisions of the repayment of debt scheme do not apply to the funded debt nor is the funded debt included in the definition of the public debt. The debt figures given throughout this Section are exclusive of this amount.

NET INDEBTEDNESS.—While the sinking funds were annually increasing it was customary to regard the net indebtedness figures as giving the best comparison of indebtedness between one year and another. The initiation of the present system of amortization, however, destroyed the comparison on this basis, and the gross figures (as shown at the beginning of this subsection) now afford a better and more comparable index. The net indebtedness figures for the last two years are: 1951-52, £649,945,384 (£327 9s. per head of population); 1952-53, £665,576,601 (£326 13s. per head of population).

The net indebtedness quoted is merely the balance left after deducting from the amount of debentures and stock in circulation the net balance of the Loans Redemption Account. No allowance is made for the fact that a portion of the debt is actually held by the Government itself. In the course of the year's financial transactions securities are bought and sold by Treasury accounts, and the investments held as at 31 March in each year, while forming part of the debt, do not represent amounts due directly or indirectly to the public. Investments held by Treasury accounts as at 31 March of the last five years has been: 1949, £29,807,345; 1950, £27,532,995; 1951, £43,380,633; 1952, £65,635,633; 1953, £54,374,428.

In addition to the above, Government investments in corporations, etc., held at 31 March 1953 (shown in the return required by the Finance Act 1947 and published in parliamentary paper B-1 [Pt. II]) are given in the following table.

Investment	Amount at 31 March 1953
	£
Bank of New Zealand	12,018,296
British Commonwealth Pacific Airlines, Ltd.	541,935
British Petroleum Co. of New Zealand, Ltd.	1,275,000
British Phosphate Commission	603,872
Christmas Island Phosphate Commission	1,428,568
Dominion Salt, Ltd.	125,000
East Coast Farmers' Fertilizer Co., Ltd.	30,000
New Zealand National Airways	1,200,000
New Zealand Woolpack and Textiles, Ltd.	150,000
Reserve Bank of New Zealand	1,500,000
State Advances Corporation	3,753,164
Tasman Empire Airways, Ltd.	375,000
Linen Flax Corporation	300,000
Tasman Pulp and Paper Co., Ltd.	200,000
Total	£23,500,835

GENERAL AND LOCAL GOVERNMENT DEBT.—The statistics given throughout this subsection refer to the indebtedness of the General Government only, and do not include the debt of local-governing authorities, which is dealt with in the Section of this volume relating to local government.

Local-governing authorities had at 31 March 1953 a gross indebtedness equivalent to £N Z,171,722,646, and if this amount be added to the gross debt of the General Government at 31 March 1953—£669,779,443—the aggregate becomes £741,502,089. This total is exclusive of £N Z,24,100,200 contingent liability due to the United Kingdom. Allowing for duplication on account of outstanding loans to local authorities from the State Advances Corporation, the Soil Conservation and Rivers Control Council, the Fire Services Council, the Main Highways Board, and inscribed debt on Government Loans to Local Bodies Act, the total is reduced to approximately £N Z,140,000,000.

The figures relating to local authorities' indebtedness in the foregoing paragraph are inclusive of Hospital Boards, and to this extent differ from those generally given in the Section on local government. Hospital Board gross indebtedness at 31 March 1953 totalled £7,370,819.

Chapter 31. SECTION 31—LOCAL GOVERNMENT

Table of Contents

LOCAL government throughout New Zealand is exercised by a number of local authorities constituted under various Acts of Parliament. These Acts provide for the creation of districts over which the local authorities exercise jurisdiction. Different types of district are distinguishable, each type being identified with a specific function or group of functions. Geographically, New Zealand is divided into 129 counties, which comprise its total area, except for certain small islands which are not included within the boundaries of the adjacent counties. Administratively, boroughs and independent town districts, which are contained within the areas of the several counties, are regarded as separate entities. From an administrative point of view, therefore, the fundamental districts are counties, boroughs, and independent town districts. Upon this foundation a considerable superstructure of districts of other types has been erected. These overlapping districts may be divided into two broad classes, viz.: (1) Districts formed from parts of counties—e.g., road districts; and (2) those which are comprised of a group of adjacent districts of other types united for a common purpose—e.g., electric-power districts. The number of local authorities actively functioning at 1 April 1953 was 921, made up as follows: County Councils, 125; Borough (including City) Councils, 138; Town Boards (independent), 25; Town Boards (dependent), 18; Road Boards, 6; River Boards (3 Boards also have the powers of Land-drainage Boards), 12; Land-drainage Boards, 43; Electric-power Boards, 43; Water-supply Boards, 2; Urban Drainage Boards, 5; Transport Boards, 2; Local Railway Board, 1; Gas Board, 1; Milk Boards (including 28 where the Board is a Borough Council), 38; Nuisance/Tussock Boards, 2; Joint Transit Housing Committee, 1; Harbour Bridge Authority, 1; Rabbit Boards, 171; Fire Boards (including 128 where the Board is a Borough or County Council, etc.), 50; and Hospital Boards, 37. In addition to the foregoing, there were 20 District Councils of the Main Highways Board constituted under the Main Highways Act 1922. These District Councils of the Main Highways Board, although not local authorities in the strict sense of the term, are nevertheless intimately connected with certain aspects of local government, and have power to make recommendations of considerable importance.

From 1 April 1954 the National Roads Board took over the functions of the Main Highways Board, and the District Highways Councils became District Road Councils.

The Soil Conservation and Rivers Control Act 1941, as amended in 1945, 1946, 1947, 1948, and 1952, has for its objects the conservation of soil resources, the prevention of damage by erosion, and the making of more adequate provision than in the past for protection of property from damage by floods. A Soil Conservation and Rivers Control Council is established for the general administration of the Act, while for local administration power is given

for the constitution of catchment districts, each covering the catchment area of one or more river systems and under the control of a Catchment Board, which is armed with wide powers, including borrowing, rating, etc.

Under the Milk Act 1944, as amended in 1945, 1947, 1948, 1949, 1950, 1951, and 1953, the Governor-General may by Order in Council constitute and declare any part or parts of New Zealand a milk district for the purpose of ensuring to the inhabitants of that district an adequate supply of milk of a required standard of quality. The principal Act provided that for every milk district there shall be a Milk Authority which may be a Borough Council or a Metropolitan Milk Board, as circumstances require. In any case where the Milk Authority is a Borough Council the Council is required to appoint a Standing Committee, known as the Milk Committee, and provision is made for the appointment of other persons to the Committee where the milk district includes any area outside the borough. Where the Milk Authority is a Metropolitan Milk Board the members thereof are elected by the constituent districts comprising the milk district. The Milk Amendment Act 1947 provides for the constitution of a District Milk Board in any case where the Council of any borough has declined to be the Milk Authority or where there is no borough situated wholly or partly within the district and it is found to be impracticable to establish a Metropolitan Milk Board. The members of a District Milk Board are appointed by the Governor-General from members of local authorities situated wholly or partly within the particular milk district.

The Fire Services Act 1949 consolidated and amended the law relating to fire brigades and provided for fire defence, the protection of life and property from fire, and the co-ordination of urban and rural fire services. The Fire Service Council was established for the general administration of the Act, while for local administration existing fire districts were declared United Urban Fire Districts or Urban Fire Districts according to their previous status, and, in addition, a considerable number of new Urban Fire Districts and Secondary Urban Fire Districts were created. In the case of these new districts the control is vested in the existing local authority (Borough Council, County Council, Town Board, etc.).

The Hutt Valley Joint Transit Housing Committee was constituted under the Local Legislation Act 1949 to control and administer the transit housing scheme established at Trentham Military Camp or any further temporary transit housing scheme which the constituent local authorities may establish.

The Underground Water Act 1953 provided for the creation of Underground Water Authorities to control the use of underground water.

Detailed statistics relating to each local authority, other than Hospital Boards, are contained in the Local Authorities Handbook, an annual publication of the Census and Statistics Department. Hospital Boards, which supply their returns in different form, and to the Department of Health, are omitted from the statistics contained in this Section, but summarized data relating to them will be found in Section 5B.

The local authority year now uniformly ends on 31 March, except in the case of most Harbour Boards. In certain cases where the harbour is administered by a County or Borough Council the year ends on 31 March, but in all other cases on 30 September.

The history of local government in New Zealand may be conveniently divided into two periods associated with two distinct forms of administration—namely, (1) the provincial system, in which the local government of each province was a function of the provincial authorities; and (2) the present county system, which arose on the abolition of the provinces in 1876, and in which the general responsibility for the local government of the whole country was undertaken by the Central Government.

THE PROVINCES.—Although New Zealand was at first (1848) divided into the two provinces of New Ulster and New Munster, it was not until 1853 that the provincial system really commenced. In that year the two existing provinces were abolished and the colony was divided into the six provinces of Auckland, New Plymouth (altered to Taranaki in 1859), Wellington, Nelson, Canterbury, and Otago. The number was later increased to nine by the separation of Hawke's Bay from Wellington (1859), Marlborough from Nelson (1860), and Southland from Otago (1861). Subsequently it was reduced to eight by the merging of Southland with Otago (1870), and restored to nine again by the separation of Westland from Canterbury (1874, Westland having been a county independent of Canterbury from 1857). Each province was presided over by a Superintendent and Council, with power to legislate for its own territory, subject, however, to disallowance by the Governor, and also the exclusion of such matters as Customs duties, postal affairs, Crown lands, superior Courts of law, coinage, and paper currency, which were to be controlled by the General Assembly (Central Government). The provinces received from the Central Government a capitation allowance for the maintenance of hospitals, hospitals, asylums, charitable aid, and police; while each province was expected to provide for the construction and maintenance of roads, bridges, and other public works out of its own revenues, which were derived chiefly from the sale of waste lands.

The Provincial Councils, therefore, were virtually left with the whole responsibility of providing for the details of local administration. The Councils in turn delegated certain of their powers and functions to lesser authorities, and a number of boroughs, towns, road and highway districts came into being. Owing, however, to the lack of uniformity between the Ordinances of the various Councils on the subject of local government, considerable confusion arose and rendered impossible any satisfactory co-ordination beyond provincial boundaries. Thus main roads were frequently planned without sufficient regard to the linking-up of the country as a whole. With the rapidly increasing population, and consequent extension of settlements, the need for the development of communications along national instead of provincial lines became apparent. That the provinces had definitely outlived the period of their usefulness became abundantly clear during the prosecution of the Vogel policy of immigration and public works initiated in 1870, and in 1875 the Abolition of Provinces Act was passed in the face of strong provincial opposition.

CONSTITUTION OF LOCAL DISTRICTS.—In 1876 local government entered upon an entirely new phase, the Central Government assuming the general responsibility for the local administration of the whole country. All existing legislation on the subject was repealed and new measures were introduced, notably the Counties Act 1876, which divided the country into sixty-three counties, with provision for administration by elective Councils having powers considerably less than those enjoyed by the Provincial Councils. Another important enactment of the same year was the Municipal Corporations Act, which provided for the incorporation of the thirty-six boroughs then in existence and for the creation of new boroughs. The powers of municipalities were also extended, permitting the construction of tramways, waterworks, and gasworks, while the borrowing powers of boroughs were placed on a definite and uniform footing. While these measures have long since been repealed, it is upon them that the broad structure of the present system is based.

Since the inception of the county system there has been a great expansion of local government throughout New Zealand. With the growth of population there has been a steady increase in the number of counties, boroughs, and town districts, while entirely new types of districts have been created to cater for special services. A description of each type of local authority may be found in the 1940 and previous issues of the Year-Book.

FRANCHISE.—The franchise in local government is a variable one, differing materially in certain respects as between urban and country districts. Prior to the passing of the Local Elections and Polls Amendment Act 1941 the county franchise was based solely on property qualification, with a differential voting power according to the value of property possessed, whereas in boroughs and town districts every adult possessing the necessary residential qualifications was entitled to be enrolled as an elector for the election of the local governing authority. On any proposal relating to loans or rates, however, a ratepaying qualification was, and still is, necessary. The 1941 amendment to the Act made provision for tenants of State houses to be enrolled as electors as if they were ratepayers, but it entitled such persons to one vote only and conferred no voting powers in connection with any proposal relating to loans or rates.

An amendment passed in 1944 further extended the franchise in counties and road districts to include a residential qualification on the same lines as for boroughs, but did not interfere with the multiple voting power conferred by a property qualification. One vote only is allowed in boroughs and town districts, but it is possible, by virtue of property qualification, to have a vote in more than one district. The 1944 amendment introduced compulsory registration of electors for boroughs and town districts, all adult persons not entitled to enrolment by virtue of a property qualification being required to make application for enrolment within a prescribed time. The Act also removed the disability which prevented persons in the employ of local authorities from becoming members thereof. The Local Elections and Polls Amendment Act 1946 provided that all general elections of local authorities were to be held on the third Wednesday in November of the year in which such elections were due, instead of in May as hitherto. The 1950 amendment altered this to the third Saturday in November. It also abolished the provisions of the 1946 amendment that any person could be entered on the local authority roll whose name appeared on the parliamentary roll with an address in that authority's district provided he or she had a residential qualification, and that, if not so entered, he or she could vote by declaration. The Local Elections and Polls Act 1953, which consolidated and amended previous Acts and amendments, provided that the 1953 general elections of local authorities, with a few exceptions, should take place on 31 October 1953. Future elections are to be held on the third Saturday in November, commencing 1956, and every third year thereafter. The Act also extends the compulsory enrolment of residential electors to counties and road districts in addition to boroughs and town districts (for which provision had been made in 1944). Power is also given to make regulations to give full effect to the Act. Details of the franchise as it affects each type of local district are now given.

Counties.—Any person of twenty-one years of age and over who possesses any one of the qualifications mentioned hereunder is entitled to be enrolled on the county electors roll:

1. Rating qualification, which may be held by any person whose name appears in the valuation roll as the occupier of any rateable property within a riding of the county. One vote is allowed where the rateable value does not exceed £1,000, two votes where the value is greater than £1,000 but not in excess of £2,000, and three votes where the value exceeds £2,000.
2. A residential qualification is held by any British subject who has resided for one year in New Zealand and has had permanent residence of not less than three months in the riding of the county to which the roll relates.

Boroughs.—Any person of twenty-one years of age and over who possesses any one of the following qualifications is entitled to enrolment:

1. Freehold qualification—meaning the beneficial and duly registered ownership of a freehold estate in land of a capital value of not less than £25 situated in the borough, notwithstanding that any other person is the occupier thereof.
2. Rating qualification, which may be held by any person whose name appears in the valuation roll as the occupier of any rateable property within the borough.
3. A residential qualification may be held by any British subject who has resided for one year in New Zealand and who has had permanent residence during the last three months in the borough to which the roll relates.

An occupier's qualification, previously valid, was abolished by the Local Elections and Polls Amendment Act 1946.

As already stated, no person is entitled to vote at a poll taken on any proposal relating to loans or rates by virtue only of a residential qualification.

Town Districts.—The franchise is the same as for boroughs, except that for county electoral purposes in the case of dependent town districts the county qualification is necessary.

Rabbit Districts.—The franchise is based on stock ownership, from one to five votes being allowed according to the number of stock units owned. A sheep is counted as one unit and cattle as five units each. For up to 5,000 units one vote is allowed; over 5,000 but not exceeding 10,000, two votes; over 10,000 but not exceeding 20,000, three votes; over 20,000 but not exceeding 30,000, four votes; over 30,000, five votes.

Other Districts.—Road districts, river districts, land-drainage districts, water-supply districts, and the local railway district all have a franchise similar to that of counties except that the residential qualification applies to road districts only.

Districts composed of a grouping of districts of other types united for a common purpose have a franchise as for the component districts. Such districts are urban drainage districts, electric-power districts, harbour districts, hospital districts, urban transport districts, catchment districts, and the gas district. In some cases—e.g., the Auckland and Hutt Valley Drainage Boards—the members are appointed or elected by the territorial local authorities included in the district.

In addition to elected members, the constitution of Harbour Boards provided in most cases for certain nominated or appointed members (representatives of the Government, the waterfront industry, and the payers of harbour dues), but the Harbours Act 1950, which consolidated and amended previous legislation, provides that every Harbour Board shall now consist of members elected by the electors of constituent local authorities only.

GENERAL POWERS.—Local authorities in New Zealand derive their powers from the Acts under which they are constituted, and also from special empowering Acts. In addition to legislation providing for particular types of local authority or for individual local authorities, there are several statutory measures which are more or less applicable to all local authorities, such as the Local Elections and Polls Act 1953 and the Local Bodies' Loans Act 1926. In the case of Harbour Boards, there is in addition to a general Harbours Act a special Act for each Board, which is subordinate to the general Act. Certain types of local authority—Urban Drainage Boards, the Local Railway Board, the Transport Boards, the Gas Board, and the Auckland Harbour Bridge Authority—derive their principal powers from special constituting Acts.

Local authorities have general powers of entering into contracts for any of the purposes for which they are constituted; of selling and leasing land; and of taking or purchasing any land which may be necessary or convenient for any public work.

The Local Authorities' Emergency Powers Act 1953 confers on local authorities certain powers (e.g., in respect of rescue, first aid, provision of relief and welfare, distribution of foodstuffs, information and advice to public, etc.) in emergencies arising from earthquake, fire, or flood, or in time of war from enemy action or enemy sympathizers.

AMALGAMATION.—Various statutory provisions exist for the voluntary amalgamation of local authorities, and these have been availed of from time to time. There have been numerous amalgamations of contiguous boroughs, while the one-time numerous rural districts which played a very important part in the scheme of local government in the essentially colonizing days of New Zealand are now largely merged in county areas. Prior to the passing of the Local Government Commission Act 1946 no provision for compulsory amalgamation existed, although a measure entitled the Local Government (Amalgamation Schemes) Bill was introduced during the parliamentary session of 1936, but was not proceeded with.

The Local Government Commission Act 1953, which replaced the Local Government Commission Act 1946 and amendments, set up a Local Government Commission which is a permanent institution deemed to be a Commission of Inquiry under the Commissions of Inquiry Act 1908. Its functions are to review from time to time the functions and districts of local authorities, to investigate local government boundaries in New Zealand, and recommend such changes as may be considered necessary.

The 1953 Act also set up a Local Government Appeal Authority who is required to have the qualifications required for appointment as a Judge of the Supreme Court, and sits as a Judicial authority to determine appeals made from decisions of the Commission.

Local Government Commission.—The Act provides that the Commission is to consist of—

1. A Chairman; and
2. Two further members to be appointed from a panel of persons nominated by the nominating Associations, one of whom shall have a special knowledge of urban local government, and the other shall have a special knowledge of rural local government.

At present the nominating Associations are—

The Municipal Associations of New Zealand (Incorporated).

The New Zealand Counties Association (Incorporated).

The Electric Supply Authorities Association of New Zealand.

The Hospital Boards' Association of New Zealand.

The Harbours Association of New Zealand.

Functions.—The general functions of the Commission are set out in section 13 of the Local Government Commission Act 1953 as follows:

The functions of the Commission shall be to review from time to time the functions and districts of local authorities, and, when requested to do so under the provisions of this Act, to inquire into proposals and prepare schemes for the reorganization thereof, and generally to review and report to the Minister upon such matters relating to local government as may be determined by the Commission or referred to it by the Minister.

Powers.—The Commission's powers are more specifically defined in section 14 where it is authorized to draw up a reorganization scheme to provide for any one or more of the following matters:

- a. The union into one district of two or more adjoining districts, whether districts of the same kind or not.
- b. The merger of any district in any other district.
- c. The constitution of a new district or districts.
- d. The abolition of any district or districts.
- e. Any alteration of the boundaries of adjoining districts.
- f. The conversion of a district into a district of a different kind.
- g. The inclusion in any district of any area adjoining that district.
- h. The exclusion of any area from that district.
- i. The transfer of all or any of the functions of any local authority, or all or any of the functions of any local authority exercisable in any portion of its district or elsewhere, to any other local authority.
- j. The dissolution of any local authority.

No scheme is to provide for the transfer of whole or any part of any trading undertaking or of any functions in relation thereto from any local governing authority except upon the union, merger, or abolition of the district of the local governing authority.

The procedural steps may be summarized as follows:

1. At the request of the Minister or of any local authority, the Commission may consider a proposal that a reorganization scheme should be prepared for any district or area and, if so, what matters should be provided for in the scheme.
2. The Commission ascertains whether or not all local authorities likely to be affected are in agreement on the proposals.
3. If no agreement exists, the Commission convenes a meeting of all such local authorities to discuss the proposal and to negotiate an agreement thereon.
4. The Commission may then undertake further investigations and negotiations in relation to the proposal, separately or jointly with one or more local authorities or other interested persons.
5. Following on the previous steps, the Commission may, in its discretion, either—(a) prepare a provisional reorganization scheme providing for all or any matters to which the proposal relates, or (b) hold a public inquiry as to whether a scheme should be prepared (one month's public notice being given and notification given to the Minister, each local authority likely to be affected, and every person or body having statutory authority to make decisions or recommendations in connection with the proposals), or (c) decide not to proceed with the proposal. A provisional scheme may be prepared after completing any such public inquiry.
6. Public notice of the provisional scheme is given, including notice of the right of objection (i.e., by any person or body interested and, where a public inquiry has been held, by any party to the inquiry as a result of which a provisional scheme was prepared).
7. Objections are considered by the Commission, which may hold a public inquiry or a further public inquiry, as the case may be, to consider the objections. The objections may be upheld wholly or partly or dismissed, or the scheme modified, or a further provisional scheme prepared.
8. The Commission then prepares a final scheme. Where this contains a proposal for the union, merger, or abolition of the district of any local governing authority, or for the exclusion of any area from the district of any local governing authority, the Commission may recommend that a poll of electors be taken. If no such recommendation is made, a request in writing for a poll, signed by not less than 5 per cent of the electors of the district or area, may be delivered to the Returning Officer of the district within one month after the last day for lodging appeals against the decision. Polls are to be taken within three months after the last day of lodging appeals.
9. A scheme is not to be taken into effect if rejected by 60 per cent of the voters. In such a case, if the Minister considers that other parts of the scheme or any related scheme may require to be reviewed, he may refer that scheme or any related scheme back to the Commission for further consideration.
10. Subject to the decision of a poll, when held, and to any decision of the Appeal Authority in relation to the scheme, effect is given to every final scheme by Order in Council or in such manner as may be prescribed by any Act in force making appropriate provision in that behalf. The Order in Council may include supplementary provisions for the purpose of giving full effect to the provisions of the final scheme.

Appeals to Local Government Appeal Authority.—The whole or any part of any decision of the Commission approving a final scheme may be appealed against by—

1. The local authority of any district to which the scheme relates;
2. Any person or body having statutory authority to make decisions or recommendations in respect of the union, merger, constitution, alteration, or abolition of any district to which the scheme relates; and
3. The Minister, in any case where the scheme affects only one local authority, or only one local authority and an adjoining area that does not form part of a district, or does not affect any local authority.

Public notification to all parties interested, and an individual notification to those specifically interested, must be given at least one month before the date for the hearing.

After the hearing of evidence and representations the Appeal Authority may make an order either allowing the appeal in whole or in part, confirm the scheme subject to amendment, or dismiss the appeal.

Local Government Appeal Authority.—The Act provides that the Appeal Authority must be a person who has the qualifications necessary for appointment as a Judge of the Supreme Court, with the same tenure of office, salary, emoluments, privileges, etc., as a Judge of the Supreme Court.

The general functions of the Appeal Authority are set out in section 28 of the Local Government Commission Act 1953, as follows:

"The functions of the Appeal Authority shall be to sit as a judicial authority to determine appeals made from decisions of the Commission."

The Appeal Authority is deemed to be a Commission of Inquiry under the Commissions of Inquiry Act 1908, and the provisions of the Evidence Act 1908 apply to all proceedings.

BORROWING.—Under the Local Government Loans Board Act 1926 all loan proposals of local authorities, except in regard to money borrowed in anticipation of revenue, require the sanction of the Local Government Loans Board. The Board consists of the Secretary to the Treasury, the Engineer-in-Chief of the Ministry of Works, and five other members appointed by the Governor-General. In cases where a poll of ratepayers is necessary preparatory to raising a loan, the Board's consent must be obtained before the poll is held. In no case may the Board sanction any application unless provision is made to its satisfaction for repayment of the loan within such period as it deems reasonable, having regard to the probable duration and continuing utility of the works on which the loan moneys are to be expended.

The principal legislation dealing with the borrowing powers of local authorities is contained in the Local Bodies' Loans Act 1926, which is mainly a consolidation of previous measures on the subject. A local authority is thereby empowered to raise a special loan for the construction of any public work, for the purchase of land or buildings, or for the purpose of engaging in any undertaking into which it may lawfully enter. As explained previously, a loan proposal first requires the sanction of the Local Government Loans Board.

Prior to the passing of the Local Bodies' Loans Amendment Act 1951, it also required the sanction of the ratepayers in most cases. The new procedure laid down in this amendment provides that as a general rule local authorities may raise a loan by special order and without a poll of ratepayers, but, in the case of a local authority that is a rating body, a poll of ratepayers is to be taken if—

- The Local Government Loans Board requires a poll to be taken; or
- Before the date fixed for the meeting of the local authority to confirm the resolution to raise the loan not less than 5 per cent of the ratepayers demand a poll; or
- The local authority itself decides to take a poll.

A poll cannot be required in any of the following cases:

- Loans raised for emergency expenditure by reason of flood, storm, earthquake, etc.
- Loans raised by a Borough Council for the purpose of its trading undertakings.
- Loans for work of national and local importance and carried out by an agreement between the Government and a local authority.
- Loans to meet liabilities to other local authorities or arising out of any Act.

Where a poll is required the proposal is not deemed to have been carried unless at least three-fifths of the valid votes recorded are in favour of it, save in the case of boroughs and town districts, where a bare majority only is necessary. The properties and revenue of the local authority are subjected as security for the repayment of any principal sum or interest thereon, or a special rate may be levied for the same purpose.

The borrowing activities of certain types of local authority may be special provisions. Under the Hospitals Act 1926 a Hospital Board must first obtain the approval of the Minister of Health before exercising its power to borrow; under the Fire Services Act 1949, the Boards of Urban Fire Authorities must obtain the prior consent of the Fire Service Council, and Rabbit Boards must first seek the approval of the Minister of Agriculture. Harbour Boards derive their authority to borrow for harbour works from special empowering legislation, and similar authority is given for the capital works of certain other local authorities.

RATING.—Local authorities are largely dependent on revenue from rates to carry out their activities, and even loans raised for special purposes are, except where the assets purchased provide revenue to meet the loan charges, ultimately liquidated by rate revenues—known then as special rates. Three broad classes of rates are distinguished:

- General, for general purposes.
- Separate rates levied for the construction of public works, for the acquisition of land or buildings, or for the benefit of the whole or part of a local district.
- Special rates imposed to secure the repayment of loan money, being sufficient to produce interest and sinking fund, or interest and instalment of principal, as the case may be.

Special rates can be levied only by resolution gazetted, and, unlike general and separate rates, are not subject to any statutory limit.

There are three main systems of rating: (1) capital (land and improvements) value, (2) annual value, and (3) unimproved value. In a few cases rating is on an acreage basis, and in the case of certain Rabbit Boards the rate is according to the number of sheep and/or cattle owned.

The Rating Act 1925 provides that the local authority of any district (other than a district wherein the system of rating on the unimproved value is in force) may from time to time by resolution determine whether the system of rating on the annual value or on the capital value shall be in force in the district. In the case of rating on the capital value the rating roll is based on the district valuation roll prepared by the Valuation Department. Where the rating is on the annual value the local authority generally press its valuation roll on the basis of valuations made by its own valuers. There is, however, provision that annual values may be prepared on the basis of the annual value being equal to 75 per cent of the capital value, and also that a rate of 1s. in the pound on the annual value is equivalent to 3/4d. in the pound on the capital value. (See also Section 18E on valuation of land.)

Rating on Unimproved Value of Land.—The Rating on Unimproved Value Act 1896 was passed to afford local authorities the opportunity of adopting the principle of rating expressed in the title of the measure. The Act is now incorporated in the Rating Act 1925. It is entirely at the option of the ratepayers of local districts to adopt the system, and provision is made for a return to the old system of rating, if desired, after three years' experience of the new one. The poll is taken in the same manner as in the case of a loan poll required under the Local Bodies' Loans Act 1926, as amended in 1951. Under the original Act it was necessary for a minimum number of one-third of the ratepayers to vote, and a majority of their votes carried the proposal. Now the question of adoption or otherwise is decided by a bare majority of the valid votes recorded, irrespective of the number of ratepayers who have voted.

A rescinding proposal can be carried at a poll by the same means as one for adoption, but not until after three years have elapsed; and, *vice versa*, rejection of a proposal bars its being brought forward for a similar period.

It should be noted that some local authorities automatically adopt rating on unimproved value. For example, a town district, borough, or another county formed from part of a county automatically rates on the system in force in the county at the time of the constitution of the new district; also two boroughs amalgamating adopt the system in force in the district with the greater population, unless their Councils agree to the contrary.

Distribution of Rating Systems in Force.—A table is given of rating systems in force during the financial year 1951–52 in those types of districts which have power to levy rates.

—	System of Rating				Total
	Unimproved Value	Capital Value	Annual Value	Acreage Basis (On Stock)	
Counties	60	64			125*
Boroughs	98	16	20		134
Town districts	23	18	5		46
Road districts	1	6			7
River districts	3	7		6	16
Catchment districts		12			12
Land-drainage districts	27	16		1	44
Electric-power districts	14	29			43
Water-supply districts				1	1
Urban drainage districts		2			3
Transport district		1			1
Rabbit districts		2		160	3 165
Totals	226	173	26	168	3 597

* Includes Chatham Islands County, for which import and export dues are charged in lieu of rates on land.

The position in regard to the four major classes of local authorities at 1 April 1952 (i.e., the beginning of the 1952–53 financial year) is set out in the following table.

—	Rating on Unimproved Value/Total for New Zealand				Ratio of Unimproved Value to Total	
	No.	Population	No.	Population*	No.	Population
					Per Cent	Per Cent
Counties (excluding all town districts)	61	352,020	129	724,560 ¹	47.29	48.58
Boroughs	103	859,100	136	1,213,080	75.74	70.82
Town districts (independent)	13	20,460	27	30,250	48.15	67.64
Town districts (dependent)	9	4,220	18	7,850	50.00	53.76
Totals	186	1,235,800	310	1,975,740	60.00	62.55

* Exclusive of migratory, etc., population.

¹ Includes the four counties (Eden, Taupo, Sounds, and Fiord) in which the Counties Act is not wholly in force.

The following table shows the amounts levied under the various systems of rating and by annual fees or charges by counties, boroughs, and town districts for the year ended 31 March 1952. Amounts levied for other local authorities are included.

—	System of Rating			Uniform Fees and Charges	Totals
	Unimproved Value	Capital Value	Annual Value		
	£	£	£	£	£
Counties	2,401,370	2,263,359		36,190	4,700,919
Boroughs	4,573,890	609,754	2,735,116	1,022,214	8,940,974
Town districts	104,346	36,882	10,848	21,156	173,232
Totals	7,079,606	2,909,995	2,745,964	1,079,560	13,815,125

For the purposes of the foregoing tables a district is deemed to rate on the unimproved value where the general rate is levied on an unimproved-value basis. In a number of instances, in particular of boroughs, certain of the subsidiary rates are levied on other systems.

Under the authority of the Counties Amendment Act 1952 the ratepayers within a county township may require the County Council to take a poll within the township on a proposal to adopt a system of rating which differs from that in force in the county.

TOWN AND COUNTRY PLANNING.—The Town and Country Planning Act 1953 consolidated and amended the Town Planning Act 1926 and its amendments. The new Act provides for the making and enforcement of regional and district planning schemes.

Regional planning schemes must be preceded by a comprehensive survey of the natural resources of the areas concerned, and of the present and potential uses and values of all lands in relation to public activities or amenities. Regional schemes envisage the conservation and economic development of natural resources by classification of lands according to their best uses and by the coordination of all such public improvements, utilities, services, and amenities as are not limited to the territory of any one local authority.

For the purpose of every regional planning scheme proposed to be prepared there is a Regional Planning Authority consisting of representatives of the several Counties whose districts are wholly or partly within the region.

Every district scheme is required to have to its general purpose the development of the area to which it relates (including the reconstruction of an area already built on) in such a way as will most effectively tend to promote and safeguard the health, safety and convenience, the economic and general welfare of its inhabitants, and the amenities of every part of the area. Every Council must provide and maintain a district scheme whether or not a regional planning scheme including its district has been prepared or become operative.

The Act provides that the Government will administer the Act through the Minister of Works, who may delegate his authority to the Commissioner of Works. The Town Planning Board no longer exists, and its function in connection with appeal are exercised by a special Town and Country Planning Appeal Board. Other functions previously by carried out by the Town Planning Board are now apportioned between the Minister and the local authority.

The Minister of Works may prepare and obtain approval for a district scheme in any case where a local authority under an obligation to prepare such a scheme fails to do so after being notified in writing, and also a local authority may by agreement authorize the Minister to prepare and obtain approval for a scheme. In the former case the costs and expenses incurred by the Minister are recoverable from the local authority, or they may be deducted from any moneys payable from public funds to the local authority.

When a district scheme has been approved it is the duty of the local authorities having jurisdiction to enforce the requirements of the scheme in respect of all new works of any description. The provisions of a regional planning scheme are obligatory, but give the local authority a right of appeal to the Town and Country Planning Appeal Board against any scheme which conflicts with any operative district scheme or proposed district scheme that has been publicly notified.

Where a district scheme has been approved the local authority may, with the prior approval of the Minister of Works, take, under the Public Works Act 1928, any land in its district which under the scheme it considers necessary or expedient for the proper development or use of the land or for the provision or preservation of amenities. In such a case the local authority may raise a special loan for the purpose under the Local Bodies' Loans Act without the usual requirement of a poll of ratepayers on the proposal.

HOUSING.—The Housing Survey Act 1935 was passed in October of that year, its purpose being to ascertain the extent to which the existing housing accommodation in New Zealand fell short of reasonable requirements. The Act applied to every borough (or city) or town district whose population was estimated by the Government Statistician to be not less than one thousand at 1 April 1934, to two suburban road districts, and to any other local authority prescribed by Order in Council. An analysis of the results of the survey carried out under the authority of the Act is contained in the 1946 and previous issues of the Year-Book.

Under section 28 of the State Advances Corporation Act 1936, the Corporation is empowered to make loans to local authorities for the acquisition of land for the erection of workers' dwellings, or for any other purpose in relation to workers' dwellings. As part of the Government's housing plans, finance is made available to local authorities at an interest rate of 3 ½ per cent for the purpose of erecting municipally-owned workers' dwellings for letting at low rentals. Applications by local authorities for loans under this arrangement must be approved by the Local Government Loans Board and by the Minister of Finance.

By the Rural Housing Act 1939 local authorities are empowered to advance moneys to a farmer for the purpose of enabling him to provide a dwelling for his own use or for the use of any farm worker who is principally employed by him, the money in the first place being supplied by the State Advances Corporation (refer to Section 33D of this volume).

The Local Authorities (Temporary Housing) Emergency Regulations 1944 empower local authorities to establish and maintain transit housing centres for the purpose of providing temporary accommodation for persons who are awaiting the allocation of State rental houses or the provision of other housing accommodation.

Borough Councils are authorized under Part I of the Municipal Corporation Amendment Acts of 1948 and 1950 to provide loans for housing purposes up to a limit of £2,020; to subdivide for such purposes any land vested in a Council and not held by it in trust for any particular purpose other than housing; to sell or lease allotments for housing purposes; and to borrow money to meet the cost of acquiring, subdividing, and developing the land and constructing streets.

RECEIPTS.—The sources from which the various classes of local authorities secure the moneys necessary to exercise their functions vary greatly, according to the nature of the statutory duties of the local authority concerned. Generally, however, receipts fall under one of four main classes—viz., rates; revenue from public utilities, licences, rents, etc.; revenue receipts from the General Government; and receipts such as loan money and special grants and subsidies from the Government which cannot properly be regarded as revenue.

The receipts of local authorities, divided into the various groups mentioned, are given for each of the last eleven years. As stated earlier, the figures quoted here and elsewhere in this Section (unless specifically stated to this effect) do not cover the operations of Hospital Boards.

Year Ended 31 March	Revenue From				Total Revenue	Receipts Not Revenue	Total Receipts
	Rates	Public Utilities, Licences, Rents, etc.	Government				
	£	£	£	£	£	£	£
1942	7,441,704	12,955,129	444,236	20,841,069	3,175,467	24,016,536	
1943	7,764,677	13,681,289	401,533	21,847,499	2,640,252	24,487,751	
1944	7,823,730	14,751,120	393,624	22,968,474	2,053,629	25,022,103	
1945	7,895,871	15,057,508	415,019	23,368,398	2,086,275	25,454,673	
1946	8,633,329	15,393,510	450,291	24,477,130	2,743,837	27,220,967	
1947	9,541,133	16,506,818	512,029	26,559,980	3,737,371	30,297,351	
1948	9,806,859	17,212,851	611,213	27,630,923	4,408,014	32,038,937	
1949	10,797,084	19,076,812	679,984	30,553,880	5,458,232	36,012,112	
1950	11,644,748	20,327,342	751,839	32,723,929	7,366,693	40,090,622	
1951	12,577,017	21,715,543	910,472	35,203,032	7,461,071	42,664,103	
1952	14,513,766	24,050,670	1,104,223	39,668,659	9,543,035	49,211,694	

Local authorities received by way of rates in the financial year 1951–52 a total amount of £14,513,766, and the sum of £1,396,104 was raised by licences, making £15,909,870 altogether from taxation, which sum is equivalent to £8 2s. 5d. per head of the mean population (including Maoris).

During 1951–52 rates formed 36.6 per cent of the revenue proper; public utilities, licences, rents, and other sources yielded 60.6 per cent; and 2.8 per cent came from the General Government.

Of the revenue proper of counties, which amounted to £6,028,687 in 1951–52, no less a sum than £4,340,546, or 72.0 per cent, was raised by way of rates. Town districts, road districts, river districts, catchment districts, land-drainage districts, urban drainage districts, and the water-supply district also rely on taxation for the greater part of their income. In the case of boroughs, electric-power and transport districts, and Harbour Boards, on the other hand, rates supply a considerably smaller proportion of the total revenue. During 1951–52 this source of income accounted for 45.0 per cent of the total revenue of boroughs, the corresponding proportions for Harbour Boards, electric-power districts, and urban transport districts being 10.5 per cent, 0.15 per cent, and 6.2 per cent respectively.

The next table shows the receipts for 1951–52 (classified as in the preceding table for each type of local authority).

—	Revenue From				Receipts Not Revenue	Total Receipts
	Rates	Public Utilities Licences, Rents, etc.	Government			
	£	£	£	£	£	£
Counties	4,340,546	1,382,310	305,831	2,217,530	8,246,217	
Boroughs	8,228,587	9,700,840	361,725	3,674,920	21,966,072	
Town districts	167,602	82,272	7,692	129,716	387,282	

* Harbour improvement rate, £159,151, and rates on land in harbour rating area, £196,195.

—	Revenue From			Receipts not Revenue	Total Receipts
	Rates	Public Utilities Licences, Rents, etc.	Government		
Road districts	62,907	8,728	1,277	17,882	90,794
River districts	56,636	26,076		58,202	140,914
Catchment districts	252,546	92,568		422,788	767,902
Land-drainage districts	86,598	11,412		19,096	117,106
Electric-power districts	1,033	6,810,474		1,492,748	8,304,255
Water-supply district	4,504	110			4,614
Urban drainage districts	453,075	24,510		192,840	670,425
Urban transport districts	131,644	2,003,539		222,497	2,357,680
Railway district		31,584		1,769	33,353
Gas district		107,086		30,458	137,544
Milk districts		56,326		3,600	59,926
Nassella tussock districts		5,573		14,619	20,192
Joint Transit Housing Committee		10,880			10,880
Rabbit districts	372,022	91,840	370,601	431,970	1,266,433
Fire districts		558,662	57,097	121,581	737,340
Harbour Boards	356,066*	3,045,880		490,819	3,892,765
Totals	14,513,766	24,050,670	1,104,223	9,543,035	49,211,694

* Harbour improvement rate, £159,151, and rates on land in harbour rating area, £196,195.

Revenue proper in 1951-52 was £4,465,627 greater than in 1950-51, while receipts other than revenue increased to the extent of £2,081,964. Rates accounted for £1,936,749 of the revenue increase, public utilities, licences, rents, etc., for £2,335,127, and revenue from the General Government accounted for £193,751.

Of the total rates (£14,513,766) collected during 1951-52 general rates levied brought in £8,245,206 and other rates (including penalty on overdue rates) £6,268,560. Of the latter, £4,482,495 was received by boroughs and £1,786,065 by counties. The whole of the rates collected by Harbour Boards (£356,066) were classed as general rates.

It is of interest to note that for the year 1951-52 the total of all rates collected by counties was equal to £10,200 per £1,000 of rateable capital value (land and improvements) at the beginning of the year. The corresponding figure for boroughs was £14.53, for independent town districts £13.03, and for dependent town districts £10.18 (excluding rates levied by County Councils).

Sections in successive Finance Acts from 1930 to 1936 authorized the remission or postponement in whole or in part of the 10 per cent penalty on unpaid rates. This authority then lapsed, but was reinstated on a permanent basis and made retrospective by the Statutes Amendment Act 1938.

Public Utilities, Licences, Rents, etc.—As indicated earlier, rates are not the only form of local taxation. Local authorities derive a certain amount of revenue from publicans' licences, heavy-traffic fees, motor-drivers' licences, drivers' (other vehicles) licences, auctioneers' and hawkers' licences, building permits, dog taxes, pound taxes, etc. Sources of revenue not classed as taxation are rents, fines and penalties, sales of material, sales of light and power from gasworks and electric-supply works, tramway and omnibus receipts, interest on deposits, what dies, etc.

Of the total revenue of £9,700,840 accruing to boroughs under this head in 1951-52, £1,449,476 represented tramway and omnibus receipts, £3,399,936 sales of electric light and power, and £859,972 sales of gas. Comparable figures for 1950-51 were £8,929,878, £1,304,310, £3,399,936, and £861,379, respectively.

Receipts from General Government.—A statement of revenue receipts by local authorities from the General Government during the five financial years ended 31 March 1952 is given in the next table.

—	Year Ended 31 March				
	1948	1949	1950	1951	1952
	£	£	£	£	£
Rates on Crown lands	11,325	13,694	33,287	38,122	31,850
Fire Service Council				54,719	63,089
One-third of receipts from land sold on deferred payment or held on perpetual lease	3,335	3,123	2,688	"	"
One-fourth of rents from small grazing-runs	978	130	98	"	"
Timber and flax royalties	31,112	45,856	34,326	46,334	44,395
Goldfields revenue and gold duty	13,942	13,846	12,181	10,567	14,352
Subsidies on rates	306,691	375,745	409,387	488,269	636,559
Motor-spirits tax	202,775	199,514	227,360	240,509	280,944
Fees and fines	12,219	15,330	18,306	24,736	27,537
Other revenue receipts	28,836	12,746	15,388	7,216	5,497
Totals, Revenue Account	611,213	679,984	753,021	910,472	1,104,223
Loans from State Advances Corporation ¹	172,978	520,947	341,184	48,071	48,212
Loans from Treasury Department		563	18,333	10,407	15,661
Loans from Ministry of Works		2,256	5,236	11,611	6,920
Advances from Highways votes	6,118	34,931	22,941	11,080	21,635
Advances from Soil Conservation and Rivers Control Council	53,550	58,196	74,570	46,326	48,179
Advances from Fire Service Council				4,070	3,675
Grants for special works, etc.—					
From Labour and Employment Department	63,535	50,640	54,748	43,198	38,218
From Highways votes	838,254	1,036,928	1,205,670	1,149,849	1,409,849
Other	388,409	570,613	958,791	989,471	1,394,061
Total receipts from Government	2,133,857	2,955,058	3,434,494	224,554	4,090,633

* Included in "Other revenue receipts."

¹ From 1951 includes advances from Housing Account only.

EXPENDITURE.—The expenditure of local authorities during each of the last eleven years has been as follows.

Year Ended 31 March	Works and Utilities (Construction and Maintenance)	Hospital Board Levies	Administration	Interest on Loans and Overdraft	Other	Total Expenditure
1942	15,114,255	1,065,383	1,439,918	2,928,172	3,523,364	24,072,002
1943	13,802,865	1,315,997	1,385,227	2,806,146	3,198,199	23,228,434
1944	14,222,570	1,251,183	1,404,105	2,725,283	4,198,056	23,801,197
1945	15,428,590	1,313,844	1,560,791	2,620,406	4,300,012	25,223,643
1946	17,516,436	1,534,819	1,676,563	2,541,929	4,084,886	27,354,633
1947	20,319,365	1,857,273	1,844,117	2,475,457	3,982,962	30,479,174
1948	22,550,666	1,350,711	2,066,023	2,356,795	4,133,131	32,457,326
1949	25,622,741	1,415,135	2,314,546	2,332,033	4,128,018	35,812,473
1950	29,099,270	1,505,576	2,411,568	2,284,345	4,363,495	39,664,254
1951	32,130,324	1,669,474	2,897,473	2,220,624	4,324,534	43,242,429
1952	36,988,866	1,855,444	3,221,902	2,218,656	4,561,378	48,846,246

Included in the total of other payments for 1951-52 is an amount of £3,378,817 in respect of amortization of debt, which compares with the figure of £3,182,844 for the same purpose in 1950-51.

The main items of expenditure of the various classes of local authorities during 1951-52 is shown below.

—	Works and Utilities (Construction and Maintenance)	Hospital Board Levies	Administration	Interest on Loans and Overdraft	Amortization of Debt	Total Expenditure*
Counties	6,046,737	817,718	713,026	196,694	334,068	8,205,681
Boroughs	16,557,473	1,007,755	1,047,785	1,013,682	1,596,484	21,897,773
Town districts	268,351	20,881	37,875	12,403	21,969	368,615
Road districts	64,578	9,090	7,471	2,857	4,892	92,867
River districts	75,574		10,425	7,737	9,090	102,983
Catchment districts	620,090		109,083	21,018	48,430	812,155
Land-drainage districts	66,961		9,667	8,826	14,460	101,053
Electric-power districts	6,127,914		734,191	468,317	781,038	8,328,024
Water-supply district	3,741		670	131	689	5,231
Urban drainage districts	340,115		80,307	102,242	100,375	638,994
Urban transport districts	1,981,351		99,253	50,798	56,154	2,204,505
Railway district	19,523		4,100	1,145		24,814
Gas district	124,377		6,735	10,039	13,699	154,915
Milk districts	48,378		13,902	83	224	64,872
Nassella tussock districts	19,758		721	5		20,484
Joint Transit Housing Committee	4,574		530	515	5,066	10,685
Rabbit districts	1,138,966		58,144	4,723	1,332	1,207,458
Fire districts	581,528		19,125	18,837	33,595	683,134
Harbour Boards	2,898,877		269,180	298,316	357,252	3,922,603
Totals	36,988,866	1,855,444	3,221,902	2,218,656	3,378,817	48,846,246

* Including other items.

The next table shows for some of the more important classes of local authorities the proportions per cent that the main items of expenditure bear to the totals. These percentages have been based on the figures shown in the preceding table.

—	Works and Utilities (Construction and Maintenance)	Hospital Board Levies	Administration	Interest on Loans and Overdraft	Amortization of Debt	Total Expenditure*
Counties	73.69	1.00	8.69	2.40	4.07	100.00
Boroughs	75.61	4.60	4.78	4.63	7.29	100.00
Town districts	72.80	5.66	10.27	3.36	5.96	100.00
Catchment districts	76.35		13.43	2.59	5.96	100.00
Electric-power districts	73.58		8.82	5.62	9.38	100.00
Urban drainage districts	53.28		12.58	16.02	15.72	100.00
Urban transport districts	89.88		4.50	2.30	2.55	100.00
Rabbit districts	94.33		4.82	0.39	0.11	100.00
Fire districts	85.13		2.76	2.80	4.92	100.00
Harbour Boards	73.90		6.86	7.61	9.11	100.00
Totals, all districts [†]	75.13	3.80	6.60	4.54	6.92	100.00

* Includes other items.

[†] Includes districts not listed.

The table following gives, in respect of boroughs only, the expenditure on new works out of loan money during the last eleven years, classified under various heads.

Year Ended 31 March	Roads, Streets, and Bridges	Drainage and Sewerage	Water-supply	Houses, Workers' Dwellings, etc.	Parks, Gardens, Town Halls, Libraries, Art Galleries, and Places of Public Recreation	Gasworks and Electrical Works	Other Public Works	Totals	
									£
1942	56,083	49,003	250,698	12,826		7,484	38,428	16,539	431,061
1943	12,789	14,056	115,913	32,218		4,467	23,273	5,109	207,825
1944	24,404	23,018	137,891	4,379		6,135	18,921	12,269	227,017
1945	26,324	35,816	235,064	21,037		26,921	54,757	21,012	420,931
1946	33,810	17,744	267,971	126,633		22,852	82,325	37,268	588,623
1947	51,872	31,905	295,702	317,808		22,319	115,118	26,956	861,680
1948	80,874	76,713	280,928	205,505		45,387	110,763	100,134	900,304
1949	191,602	101,227	349,667	96,661		97,078	153,732	116,082	1,106,049
1950	262,071	158,406	443,378	76,120		78,031	322,126	180,779	1,520,911
1951	280,540	200,968	501,625	82,997		57,309	479,640	245,950	1,849,029
1952	369,580	254,909	683,343	76,527		91,620	385,515	438,207	2,299,701

ASSETS AND LIABILITIES.—The assets and liabilities of local authorities at the end of the financial year 1951-52 were as shown in the table following.

—	Assets			Liabilities			
	Cash Assets	Other Assets (as Estimated in Published Balance-sheets)	Debentures and Other Securities: Net Indebtedness	Inscribed Stock (i.e., Loans from Treasury Under Local Bodies' Acts)	Other Liabilities (Bank Overdrafts, Temporary Loans, Outstanding Accounts, etc.)	Total Net Liabilities	
£	£	£	£	£	£	£	
Counties	2,706,275	5,668,323		3,896,299	8,779	899,424	4,804,502
Boroughs	9,316,167	51,558,431		23,306,820	6,636	2,011,240	25,324,696
Town districts	169,743	598,583		319,113		35,795	354,908
Road districts	12,516	82,495		66,267		3,777	70,044
River districts	106,177	84,366		146,591	233	2,902	149,726
Catchment districts	317,939	599,306		490,151		50,406	540,557
Land-drainage districts	67,691	49,449		140,393	303	3,325	144,021
Electric-power districts	3,933,726	27,971,591		12,165,912		1,616,197	13,782,109
Water-supply district	161	2,645		2,309			2,309
Urban drainage districts	338,456	2,207,386		1,955,330		83,064	2,038,394
Urban transport districts	849,359	3,265,671		957,821		224,628	1,182,449
Railway district	1,073	228,862				28,677	28,677
Gas district	15,851	342,505		170,495		116,686	287,181

	Assets		Liabilities			
	Cash Assets	Other Assets (as Estimated in Published Balance-sheets)	Debtures and Other Securities: Net Indebtedness	Inscribed Stock (i.e., Loans from Treasury Under Local Bodies' Acts)	Other Liabilities (Bank Overdrafts, Temporary Loans, Outstanding Accounts, etc.)	Total Net Liabilities
Milk districts	33,519	9,482	3,219		4,071	7,290
Nassella tussock districts	7,066	10,230			984	984
Joint Transit Housing Committee	2,118	30,103	13,345		115	13,460
Rabbit districts	378,703	416,344	35,778		98,634	134,412
Fire districts	246,708	1,396,286	466,637		47,161	513,798
Harbour Boards	2,900,128	17,972,514	6,247,525		338,802	6,586,327
Totals	21,403,376	112,494,572	50,384,005	15,951	5,565,888	55,965,844

The figures shown in the column "Other assets" are taken from the respective balance sheets, but are far from complete, inasmuch as no valuations are made for certain items. This applies particularly to roads, which, although representing considerable wealth to the community, do not figure at all in the assets. In this connection it may be mentioned that the greater part of the expenditure of counties and road districts is made in this direction. In the case of boroughs, although the proportion is very much less, 15.4 per cent of the loan-money expenditure during the last ten years was on roads, streets, and bridges. Assets of local authorities as returned for the last eleven years are as under.

As at 31 March	Cash Assets	Other Assets (Estimated)
1942	£ 11,324,478	£ 77,482,820
1943	13,718,190	77,937,237
1944	15,627,862	78,620,899
1945	17,202,781	79,738,843
1946	17,936,375	81,773,700
1947	18,183,148	84,807,766
1948	17,481,787	88,246,883
1949	19,153,953	98,730,180
1950	19,970,149	99,712,946
1951	20,339,438	104,740,956
1952	21,403,376	112,494,572

Cash assets are made up chiefly of loan balances, reserve investments, and cash in hand. Sinking funds, which amounted to £7,469,213 at 31 March 1952, do not appear in the foregoing table, but are shown as a deduction from the gross loan indebtedness of local authorities. Other assets are comprised mainly of fixed assets and of stocks of stores and materials.

Boroughs are responsible for 45 per cent of the total assets, electric-power districts for 24 per cent, and Harbour Boards for 16 per cent. Counties show the comparatively low percentage of 6, but this is due to the fact that practically the whole of county expenditure is made on roads, bridges, etc., for which no valuation is available.

Hospital Boards, which are not included in the foregoing figures, had assets (excluding outstanding fees and subsidies) amounting to £17,083,635 at 31 March 1952, bringing the total (excluding sinking funds) for all local authorities to approximately £150,981,583.

INDEBTEDNESS.—Local authority debt appears under two headings: (1) debentures and other securities, and (2) inscribed debt. The reason for retaining the identity of inscribed debt is that it is fundamentally different from the usual type of loan. Originating in the early days of the present system of local government, it arose out of a recognition by the General Government that the primary functions of local authorities, such as roadmaking, were of national importance, and money was advanced on very favourable terms. The loans were for long terms at low interest rates, with no provision for repayment, the position being that as soon as a local authority met its final instalment of interest the loan was extinguished. Loans of this nature are vastly different from what is usually connoted by the term.

The total gross debt of local authorities at 31 March 1952 was £57,869,169, made up of: debentures and other securities, £57,570,155; loans from Highways votes, £72,791; advances from Soil Conservation and Rivers Control Council, £205,888; advances from Fire Service Council, £4,384; and inscribed debt, £15,951. The net indebtedness (i.e., after deducting accumulated sinking funds from debentures and other securities, and making an actuarial estimate of the liability for inscribed debt on an assumed table-loan basis) was £50,384,666.

It is necessary to observe that figures of local authority debt given herein are not quoted in uniform currency terms. Debt held in New Zealand (the great majority of the total) is expressed in New Zealand currency; that held in Australia is expressed in Australian currency; and that held in the United Kingdom is expressed in sterling. The total is ascertained by adding the three currencies together without conversion to a common basis. If the amount domiciled overseas is converted to New Zealand currency, the total gross debt at 31 March 1952, at the then rates of exchange, was £57,791,081.

The total gross debt of local authorities at 31 March 1952, including Hospital Boards, was £64,811,985. From 1939–40 to 1947–48 there was a progressive decline in the debt aggregating £9,494,504. Between 1947–48 and 1949–50 there was a decrease of £244,299, while in 1950–51 the debt increased by the comparatively small sum of £126,648, which showed a fairly stable position for those four years. A substantial increase of £2,992,970 has taken place in 1951–52.

Included in the gross indebtedness figure in the previous paragraph are amounts owing by local authorities to Government Departments, and the amounts of the securities held at 31 March for the last four years are shown in the following table. The percentages to the total gross debt are given at the foot of the table.

Department	As at 31 March			
	1949	1950	1951	1952
	£	£	£	£
New Zealand Government Insurance Office	2,968,476	3,270,805	3,931,139	4,603,666
National Provident Fund Board	967,548	1,145,654	2,217,296	5,247,503
Public Trustee	5,173,128	4,874,155	4,518,164	4,222,275
State Advances Corporation—				
Trading	4,471,295	4,362,537	4,391,068	4,384,630
Housing Account	1,052,622	993,761	953,107	933,373
Rural Housing Act 1939	131,691	127,959	121,008	120,990
Other	2,220,018	2,175,460	2,042,600	1,896,392
Totals	16,984,778	16,950,331	18,174,382	21,408,829
Ratio per cent to total gross indebtedness	27.5	27.5	29.4	33.4

Reference to the next table will show that consents to borrowing by local authorities were much higher during the six years ended 1951–52 than for any earlier period, while there was a particularly large increase for 1951–52. The low figures of the amounts sanctioned for new works during the period 1941–42 to 1945–46 may be ascribed to factors arising out of the war.

The following summary of the operations of the Local Government Loans Board during the last eleven years shows concisely the trend of local authority borrowing during that period. Hospital Boards are included in this instance.

Year	Total Applications	Sanctioned	
		New Works	Redemption Loans
	£	£	£
1941–42	4,589,653	1,898,096	1,391,728
1942–43	3,336,780	1,497,120	1,121,000
1943–44	3,999,665	1,349,335	2,359,755
1944–45	3,242,327	1,737,807	698,120
1945–46	3,497,820	2,643,935	243,235
1946–47	9,843,543	7,289,436	1,106,430
1947–48	8,324,579	6,022,034	1,459,880
1948–49	8,934,705	6,977,289	1,542,177
1949–50	8,062,758	6,602,220	761,957
1950–51	10,825,192	9,242,938	485,550

Year	Total Applications	Sanctioned	
		New Works	Redemption Loans
	£	£	£
1951–52	15,092,761	13,891,297	1,029,246

The outstanding loans of local authorities (other than Hospital Boards) at the end of each of the last eleven years are shown in the following table.

At 31 March	Debtures and Other Securities		Inscribed Debt		Total Debt	
	Gross Debt	Net Debt (i.e., Less Accumulated Sinking Funds)	Gross Debt	Present Indebtedness (Actuarially Computed)	Gross Debt	Net Debt
	£	£	£	£	£	£
1942	65,332,785	56,555,469	1,313,205	223,639	66,645,900	56,779,108
1943	63,969,096	55,148,551	1,161,978	180,350	65,131,074	55,328,901
1944	62,307,743	53,394,194	955,085	143,206	63,262,828	53,537,400
1945	60,414,638	51,354,680	823,299	112,382	61,237,937	51,467,062
1946	59,342,332	50,029,520	683,532	85,623	60,025,864	50,115,143
1947	57,171,832	48,954,703	596,427	63,425	57,768,259	49,018,128
1948	56,612,845	48,295,879	504,630	43,387	57,117,475	48,339,260
1949	56,181,516	48,171,038	423,508	26,837	56,605,024	48,197,875
1950	56,042,762	48,395,137	259,304	12,226	56,302,066	48,407,363
1951	55,998,088	48,799,476	88,508	3,669	56,086,596	48,803,145
1952	57,853,218	50,384,005	15,951	661	57,869,169	50,384,666

In addition to the scheme of State advances, there exists a system whereby the State guarantee to the payment of interest and principal, in the event of default by the local authority, may be obtained by the borrowing authority. The net amount outstanding in respect of local authority loans guaranteed by the State has fallen to negligible proportions during recent years, being only £101,166 at 31 March 1952. At 31 March 1940 the amount of these guaranteed loans was £736,806, sinking funds in respect thereof totalling £463,335.

Of the total net indebtedness of £50,384,666 at 31 March 1952 boroughs were responsible for £23,306,820, which represents 3.5 per cent of their rateable capital value. In the case of counties, which have a much less *per caput* expenditure on works, etc., the aggregate net indebtedness was £3,896,299 and the percentage of rateable capital value only 0.8.

The following table shows, per head of the population, the gross debt of local authorities and the annual charge thereon for the last eleven years.

As at 31 March	Population	Gross Debt			Annual Loan Charge		
		Amount	Rate per Head	Amount	Rate per Head	Rate per Head	
		£	£ s. d.	£	£ s. d.	£ s. d.	
1942	1,634,338	66,645,900	40 15 7	4,823,847	2 19 0		
1943	1,634,094	65,131,074	39 17 2	4,822,975	2 19 0		
1944	1,643,900	63,262,828	38 9 8	4,828,029	2 18 9		
1945	1,679,972	61,237,937	36 9 0	4,869,749	2 18 0		
1946	1,756,756	60,025,864	34 3 5	4,994,792	2 16 10		
1947	1,789,476	57,768,259	32 5 8	4,925,034	2 15 0		
1948	1,828,025	57,117,475	31 4 11	5,079,994	2 15 7		
1949	1,864,560	56,605,024	30 7 2	5,133,722	2 15 1		
1950	1,902,883	56,302,066	29 11 9	5,287,589	2 15 7		
1951	1,938,032	56,086,596	28 18 10	5,498,866	2 16 9		
1952	1,984,370	57,869,169	29 3 2	5,805,138	2 18 6		

It should be noted that the debt of electric-power districts shown in the following table does not represent the complete local authority debt on account of electric-power activities, since a considerable portion of the borough debt, and a small part of the county and town district debt also, was incurred for that purpose.

As at 31 March	Counties and Road Districts, Boroughs and Town Districts				Urban Drainage Districts	Urban Transport Districts	Electric-power Districts	Harbour Boards	Other Districts	Totals
	£	£	£	£	£	£	£	£	£	£
1942	6,992,920	30,722,037			2,733,917	2,397,459	12,499,046	9,796,647	1,503,954	66,645,900
1943	6,685,000	29,841,339			2,708,418	2,232,182	12,376,538	9,790,659	1,496,918	65,131,074
1944	6,361,050	29,060,001			2,666,879	2,160,041	11,828,308	9,700,962	1,485,387	63,262,828
1945	6,050,099	28,334,881			2,641,585	1,757,786	11,535,522	9,496,763	1,421,301	61,237,937
1946	5,810,922	27,896,973			2,624,458	1,720,628	11,190,586	9,365,149	1,417,478	60,025,864
1947	5,513,450	27,270,513			2,616,883	1,659,281	10,841,813	8,406,378	1,459,941	57,768,259
1948	5,104,427	26,985,305			2,595,852	1,593,230	11,093,722	8,234,163	1,510,776	57,117,475
1949	4,914,283	26,405,036			2,611,731	1,534,126	11,579,513	8,046,461	1,513,874	56,605,024
1950	4,659,888	26,482,265			2,590,274	1,199,645	11,996,832	7,785,298	1,587,864	56,302,066
1951	4,419,262	26,578,974			2,579,127	1,032,528	12,461,512	7,381,722	1,633,471	56,086,596
1952	4,352,440	27,517,226			2,703,623	1,150,695	13,003,504	7,496,231	1,645,450	57,869,169

The debt of road districts at 31 March 1952, which is included with that of counties, was £67,330; the town district debt at the same date was £352,102. The debt of "other districts" at 31 March 1952 was mainly that of river districts (£163,694), catchment districts (£524,622), land-drainage districts (£195,072), gas district (£174,095), and fire districts (£533,316).

The following table shows the amount of indebtedness, at 31 March 1952, other than inscribed debt, classified according to the purpose for which the loans were raised.

Local Districts	Roads, Streets, Footways, and Bridges	Drainage, Sewerage and Water-supply	Tramways and Omnibuses	Electric Supply and Lighting	Harbour Works	Other and Unspecified	Total
	£	£	£	£	£	£	£
Counties	3,014,449		375,302				840,780
Boroughs	6,681,681		9,928,580	1,014,625	3,269,930	111,797	6,211,875
Electric-power districts					12,903,573		99,951
Urban drainage districts		2,703,623					2,703,623
Urban transport districts				1,150,695			1,150,695
Harbour Boards						7,433,443	62,788
Other	141,001		148,596			33,628	1,741,121
Totals	9,837,131	13,156,101	2,165,320	16,179,922	7,558,579		8,956,495

The debt owing on electric supply and lighting is 28 per cent of the total, showing that heavy borrowing has been necessary to finance this utility, while the percentage for drainage, sewerage, and water systems is 22.7.

Domicile of Debt.—A five-year summary of the domicile of loans outstanding, other than inscribed debt, is given hereunder.

At 31 March	Amount			Percentage of Total		
	New Zealand	United Kingdom	Australia	New Zealand	United Kingdom	Australia
	£	£	£	Per Cent	Per Cent	Per Cent
1948	49,386,736	5,970,900	1,255,209	87.23	10.55	2.22
1949	49,998,428	5,481,000	702,088	88.99	9.76	1.25
1950	50,641,619	5,035,800	365,343	90.36	8.99	0.65
1951	51,275,945	4,359,200	362,943	91.57	7.78	0.65

At 31 March	Amount			Percentage of Total		
	New Zealand	United Kingdom	Australia	New Zealand	United Kingdom	Australia
1952	53,233,581	4,259,200	360,437	92.02	7.36	0.62

During 1951–52 the amount domiciled in New Zealand increased by £1,957,636, while the amounts domiciled in the United Kingdom and Australia decreased by £100,000 and £2,506 respectively.

The alteration of the exchange rate effective from 20 August 1948 afforded an opportunity for some local bodies to effect worthwhile savings in debt charges by raising loans in New Zealand and applying the proceeds in the redemption of Australian-domiciled debt, upon which interest was being paid at a higher rate than that current in New Zealand.

Debt Charges.—Particulars of the annual loan charge of local authorities during each of the last eleven years are as follows.

At 31 March	On Debentures and Other Securities	On Incribed Debt	Total
	£	£	£
1942	4,777,854	45,993	4,823,847
1943	4,782,324	40,651	4,822,975
1944	4,794,671	33,258	4,828,029
1945	4,841,279	28,470	4,869,749
1946	4,970,906	23,886	4,994,792
1947	4,904,191	20,843	4,925,034
1948	5,062,360	17,654	5,079,994
1949	5,118,969	14,753	5,133,722
1950	5,278,382	9,207	5,287,589
1951	5,495,768	3,098	5,498,866
1952	5,804,578	560	5,805,138

Amortization charges are included in the above, the amount payable during 1952–53 on debt other than inscribed debt at 31 March 1952, being £3,600,903. Interest charges payable during 1952–53 on the debt (other than inscribed debt) outstanding at 31 March 1952 aggregated £2,203,675, payable according to countries of domicile, as follows: New Zealand, £1,970,739; Australia, £19,185 (on face value); United Kingdom, £213,751.

The loans outstanding, other than inscribed debt, at 31 March 1952 are classified below according to domicile, and also according to rate of interest. Reference should be made to observations on page 754 in regard to the currencies in which local authority debts are expressed.

Rate of Interest Per Cent	Domiciled in New Zealand	Domiciled in United Kingdom	Domiciled in Australia	Totals
	£	£	£	£
Free of interest	61,524			61,524
2½	2,000			2,000
2¾	50,152			50,152
3	2,528,134		9,900	2,538,034
3	8,172,685			8,172,685
3	49,393			49,393
3¼	14,744,928			14,744,928
3	1,915			1,915
3	877,096			877,096
3	10,075			10,075
3½	4,170,078			4,170,078
3	196,942			196,942
3	28,762			28,762
3	628,096			628,096
3	209,909			209,909
3	293,478			293,478
4	791,872			791,872
4	259,702			259,702
4¼	19,493,255			19,493,255
4	108,846			108,846
4½	169,442	1,090,500		1,259,942
4	196,976		15,000	211,976
4	5,100			5,100
4	175,131			175,131
5	1,090	1,400,000		1,401,090
5½	1,000			1,000
5¼		1,023,400	51,500	1,074,900
5½		745,300	32,053	777,353
5¼	6,000		251,984	257,984
Totals	53,233,581	4,259,200	360,437	57,853,218

The average rates of interest work out as follows: New Zealand, 3.65 per cent; United Kingdom, 5.02 per cent; Australia, 5.53 per cent; total, 3.76 per cent.

The interest rates quoted are those applicable to the amount of debt outstanding. They have not been adjusted to the prices at which the respective loans were raised—e.g., where a loan was issued below par the rate of interest on the sum actually received (omitting the question of flotation expenses) would be higher than the rates quoted above.

Interest Reduction and Loans Conversion.—As part of a general policy of a reduction in interest rates the National Expenditure Adjustment Act 1932 imposed, amongst other things, a stamp duty of 10 per cent on interest derived from local authority securities. The proceeds, less 5 per cent as administrative charges, were paid to the respective local authorities. This duty was abolished by the Local Authorities Interest Reduction and Loans Conversion Act 1932–33, which followed somewhat similar legislation dealing with the public debt. Interest rates on local-authority securities in excess of 4½ per cent per annum were reduced by 20 per cent, or to a minimum of 4½ per cent. Local authorities were also empowered to draw up individual conversion schemes at a lower and more uniform rate of interest. Dissentients to any such scheme were penalized by a reduction of 33½ per cent below the original rate.

The provisions of the Local Authorities Interest Reduction and Loans Conversion Act 1932–33 ceased to operate on 31 December 1935, at which date 90 per cent of the debt convertible at 31 March 1933 had been converted; but provision was contained in section 20 of the Finance Act (No. 2) 1935 for voluntary conversion to be carried out under the provisions of the principal Act.

The Local Authorities Interest Reduction and Loans Conversion Amendment Act 1934 limited future borrowings to an interest rate not exceeding 3½ per cent, with provision, however, for varying the rate by Order in Council under the Local Government Loans Board Act 1926. In May 1939 the maximum was raised to 4½ per cent, was later reduced to 3¼ per cent, and in 1952 was increased to 4 per cent.

Loans Maturities.—The following table classifies loans outstanding at 31 March 1952 (other than inscribed debt) according to years of maturity and countries of domicile.

Years of Maturity (Ended 31 December)	New Zealand	United Kingdom	Australia	Total
	£	£	£	£
Overdue	3,200			3,200
1951–55	9,833,493	477,200	53,960	10,364,653
1956–60	15,974,960	3,080,000	44,600	19,099,560
1961–65	11,847,362	702,000	27,877	12,577,239
1966–70	6,689,059			6,689,059
1971–75	5,564,076		234,000	5,798,076

Years of Maturity (Ended 31 December)	New Zealand	United Kingdom	Australia	Total
1976–80	2,843,587			2,843,587
1981–2001	477,844			477,844
Totals	53,233,581	4,259,200	360,437	57,853,218

Table loans account for £20,400,444 of the above total, loans in which a number of debentures are redeemed each year or half-year for £22,701,060, and loans with one fixed maturity date for £14,468,651. In the case of table loans the year of maturity is taken as that in which the final instalment is payable. Practically the whole of the debt domiciled abroad is composed of loans with one fixed date of maturity.

EMPLOYMENT BY LOCAL AUTHORITIES.—Employment by local authorities comprises principally the construction and maintenance of roads and streets, and the operation and maintenance of public-utility industries (gas, electric supply, and tramways), and social services.

Particulars relating to wage-earning employees employed by the various classes of local authorities during the five-year period 1947–48 to 1951–52 are presented in the next table. The figures shown are averages of the numbers employed at fifteenth (or nearest representative day) of each month. The statistics do not cover Hospital Boards and Electric Power Boards. Employees of Electric Power Boards are included in the figures in Section 26 (Electric Power) (their average number during 1951–52 was 1,932), while employees of Hospital Boards are shown in a subsequent table.

Class of Local District	Number of Wage Earners (Average of Twelve Months Ended March)				
	1948	1949	1950	1951	1952
Counties	3,509	3,502	3,458	3,325	3,366
Boroughs	9,017	9,094	9,013	8,826	8,547
Town districts	135	126	125	121	128
Road districts	12	13	16	20	33
River districts	83	79	82	52	48
Catchment districts	156	240	233	215	278
Land-drainage districts	72	77	64	59	54
Water-supply district	6	5	5	5	5
Urban drainage districts	170	183	207	187	200
Urban transport districts	2,003	2,117	2,083	2,136	2,153
Local railway district	24	22	19	22	18
Gas district	45	39	41	39	40
Milk districts			6	1	1
Nassella tussock districts		8	10	9	10
Joint Transit Housing Committee				5	5
Rabbit districts	434	569	1,042	1,227	1,221
Fire districts				498	481
Harbour Boards	2,480	2,602	2,637	2,578	2,427
All districts	18,146	18,676	19,041	19,323	19,013

The institutional staff of public hospitals and charitable institutions under the control of Hospital Boards was as follows for the five years ended 31 March 1952.

Nature of Staff	1948	1949	1950	1951	1952
Stipendiary medical	751	799	886	917	973
Other professional and technical	760	951	840	902	964
Nursing	6,885	7,338	7,329	7,392	7,618
Indoor domestic	4,418	4,484			
Outdoor	1,045	1,083	6,517	6,598	6,850
Miscellaneous	575	631			
Totals	14,434	15,286	15,572	15,809	16,405

Over a period of a few years up to 1951 there was an increase in the visiting medical staff of Hospital Boards, but the 1952 figure shows a small decrease. The figures for the last available five years ended 31 March are as follows: 1948, 487; 1949, 537; 1950, 543; 1951, 563; and 1952, 542.

Chapter 32. SECTION 32—BANKING AND CURRENCY

Table of Contents

BANKING institutions operating in New Zealand may be enumerated as follows:

1. The Reserve Bank of New Zealand.
2. Five trading banks.
3. The Post Office Savings Bank.
4. Five trustee savings banks.

In addition, a number of trading companies, investment societies, etc., perform quasi-banking functions, accepting deposits and granting credits (short-term and long-term) to clients. In some instances deposits are repayable to the client's order at call—virtually a system of cheque issuing.

Until the establishment of the Reserve Bank, which commenced to function on 1 August 1934, each of the six trading banks then functioning held the right of note issue, but this right is now vested solely in the Reserve Bank.

A full description of banking practice in New Zealand is beyond the scope of a Year-Book Section, but those desiring information on this subject may usefully refer to the report of the Parliamentary Monetary Committee, parliamentary paper B 3 (1934), and to its minutes of evidence; published as an appendix. For details of legislation governing banking a publication entitled "Banking Legislation in New Zealand," published in 1948, may be obtained from the Reserve Bank of New Zealand, Wellington.

THE RESERVE BANK.—The Reserve Bank was constituted by the Reserve Bank of New Zealand Act 1933 (amended in minor respects by the Finance Act 1934) with the primary object of exercising control, within defined limits, over monetary circulation and credit in New Zealand. As originally constituted, the Bank had a share capital of £500,000, composed of 100,000 publicly subscribed shares of £5, bearing a cumulative dividend of 5 per cent. Very important changes in the constitution of the Bank were made by the Reserve Bank Amendment Act 1936, which, *inter alia*, abolished the subscribed share capital of the Bank, with provision for the repayment to shareholders (either in cash or in Government stock, at the option of the shareholder) of the value of shares held and accrued dividends. The General Reserve Fund of the Bank is maintained at £1,500,000, made up of a contribution of £1,000,000 by the Government at the passing of the original Act, and £500,000 to replace share capital after the passing of the 1936 Amendment Act. It will be seen that the whole of the reserve fund is contributed by the State—the Bank thus being State-owned. Additional powers were conferred on the Reserve Bank by the Finance Act (No. 2) 1936, and further important changes were made by the Reserve Bank of New Zealand Amendment Acts of 1939 and 1950.

The general function of the Bank, as defined in section 10 (1) of the Reserve Bank of New Zealand Amendment Act 1936 and as amended in 1950, is as follows: "It shall be the general function of the Reserve Bank, within the limits of its powers, to give effect as far as may be to the monetary policy of the Government as communicated to it from time to time by the Minister of Finance. For purpose, and to the end that the economic and social welfare of New Zealand may be promoted and maintained, the Bank shall regulate and control credit and currency in New Zealand, the transfer of monies to or from New Zealand, and the disposal of monies that are derived from the sale of any New Zealand products and for the time being are held overseas, and shall do all such things within the limits of its powers as it deems necessary or desirable to promote and safeguard a stable internal price-level and the highest degree of production, trade, and employment that can be achieved by monetary action."

The provisions of section 10 (1) of the principal Act were amplified by section 2 of the amending Act of 1939, which read as follows: "In the exercise of their functions and powers under the principal Act, the Governor and Board of Directors shall have regard to any representations that may be made by the Minister of Finance in respect of any functions or business of the Reserve Bank, and shall give effect to any decision of the Government in relation thereto conveyed to the Governor in writing by the Minister of Finance." This section was, however, repealed by the 1950 amendment, and the following section substituted: "In the exercise of their functions and powers under the principal Act, the Governor and the Board of Directors shall give effect to any resolution of the House of Representatives in respect of any functions or business of the Reserve Bank."

The principal powers and functions of the Bank under the existing legislation are as follows:

1. Make and issue bank notes (see heading in "Coinage and Currency," *post*).
2. Buy and sell gold and silver coin and bullion.

3. Accept money on deposit or on current account.
4. Discount, rediscount, buy, and sell: (a) bills, notes, etc., whether commercial or agricultural, maturing within one hundred and twenty days from date of document or ninety days after sight; (b) agricultural bills, notes, etc., maturing within six months of acquisition; (c) Treasury bills of any Government, or bills of any local authority in any British Commonwealth country, all such bills to be maturing within three months of acquisition.
5. Grant advances, up to three months, against: (a) gold coin or bullion or relative shipping documents thereof; (b) Government, local authority, or other approved securities readily marketable in New Zealand; (c) bills, etc., as referred to above; (d) promissory notes of banks in New Zealand.
6. Grant accommodation by way of overdraft (a) to the Government of New Zealand; (b) to any Department of State or statutory authority having power to carry on any business or to borrow moneys on overdraft; (c) to any Board or other authority having statutory powers in relation to the marketing of any New Zealand produce, for the purpose of financing and marketing of any such produce.
7. Advance moneys to the Government of any other country in respect of the purchase of any New Zealand produce for export to that country, or guaranteeing any such advance that may be made by another bank. The amount outstanding in respect of any advances or guarantees in this respect shall not at any time exceed in the aggregate the sum of £10,000,000, and any loss suffered in respect of any such transaction is to be borne by the Consolidated Fund.
8. Buy and sell securities of the New Zealand or United Kingdom Governments, or securities guaranteed by the Government of New Zealand or by the Government of the United Kingdom.
9. Buy and sell currencies of other countries.
10. By authority of the Governor-General in Council, underwrite any loan proposed to be raised by the New Zealand Government, or by the State Advances Corporation of New Zealand.
11. Issue and manage loans for the Government or any local authority or public body in New Zealand.
12. (12) Borrow moneys outside New Zealand for any purpose connected with the issue, repayment, or conversion of any New Zealand Government securities.
13. (13) Keep a register of inscribed stock on behalf of a local authority or public body.
14. (14) Organize a clearing system.
15. (15) Act as a correspondent for overseas banks or as agent of other reserve banks.
16. (16) Do any other banking business not prohibited by the Act.

The following gives a summary of those restrictions upon the conduct of business by the bank as stated in the Reserve Bank of New Zealand Act 1933 and in later amendments. It may not issue bank notes of a denomination less than ten shillings; engage in trade or otherwise have a direct interest in any commercial, industrial, or similar undertaking; purchase the shares of any other bank in New Zealand or elsewhere (except shares of the Bank of International Settlements) or grant loans on the security of any shares; if the Bank is prohibited from purchasing, make unsecured loans or advances, purchase or make advances on the security of real property, except so far as may be required to enable the Bank to conduct its business; pay interest on any moneys deposited with the Reserve Bank by any other bank or pay interest on any other moneys placed on deposit or on current account with the Bank, except that it may pay interest to the New Zealand Government on Government Funds held by the Bank outside New Zealand; allow the renewal of maturing bills of exchange, promissory notes, or other similar documents purchased or discounted by or pledged to the Bank; draw or accept bills payable otherwise than on demand; and it may not grant accommodation to any state Department, local authority, or public body in excess of certain limits.

On the commencement of business on 1 August 1934 the Public Account was transferred to the Reserve Bank, and the management of the public debt was taken over from the Treasury by the Reserve Bank as from 1 October 1936.

The net profits of the Bank are paid to the Consolidated Fund, provided that the Bank's General Reserve Fund is not less than £1,000,000. If the Reserve Fund falls below that level, part of the profits must be credited to the Reserve Fund. The net profits for the year ended 31 March 1953, which were subsequently paid to the Consolidated Fund, amounted to £1,277,268, as compared with £1,001,800 for the previous year.

Any appreciation or depreciation of assets due to alteration in the exchange rate are to be credited to or borne by the Consolidated Fund. In accordance with this provision, the Reserve Bank was credited with the sum of £20,576,207 from the Consolidated Fund in early 1949 by the Government as a result of the alteration of the exchange rate to parity with sterling as from 20 August 1948.

The provisions in regard to the maintenance of reserves were amended by the 1950 amendment Act (see page 787).

Details of the liabilities and assets of the Bank at the end of June for the years 1949-53, and weekly averages for the calendar years 1943-53, are shown in the following tables.

LIABILITIES OF RESERVE BANK

Year	Capital and General Reserve Fund	Bank Notes	Other Demand Liabilities			Other Liabilities	Total Liabilities
			State	Banks	Other		
	£	£	£	£	£	£	£
<i>Weekly Average for Calendar Year</i>							
1943	1,500,000	32,586,608	15,575,571	26,704,029	1,218,758	1,763,474	79,348,440
1944	1,500,000	37,453,367	13,234,447	32,987,075	916,324	2,182,408	88,273,621
1945	1,500,000	41,122,773	12,227,830	43,971,526	1,011,949	2,561,206	102,395,284
1946	1,500,000	45,169,050	17,302,431	59,731,485	523,810	3,419,309	127,646,085
1947	1,500,000	47,682,438	13,264,615	57,102,327	482,936	3,410,632	123,442,948
1948*	1,500,000	48,930,097	13,227,571	57,706,393	380,499	3,614,572	125,359,132
1949	1,500,000	51,311,531	11,383,929	73,837,108	354,283	3,868,401	142,255,252
1950	1,500,000	55,126,290	15,445,853	74,239,149	1,231,772	4,790,311	152,333,375
1951	1,500,000	60,361,145	18,843,650	69,326,274	4,928,716	5,264,594	160,224,289
1952	1,500,000	62,251,858	14,961,639	48,557,232	490,406	5,886,632	133,647,767
1953	1,500,000	64,034,746	9,741,802	90,741,320	1,400,891	6,748,543	174,167,302
<i>At End of June</i>							
1949*	1,500,000	50,309,938	7,541,881	86,257,436	605,741	3,653,195	149,868,191
1950	1,500,000	54,147,577	18,262,294	76,879,156	4,825,037	4,534,109	160,148,173
1951	1,500,000	59,803,597	11,580,099	73,693,981	4,792,359	5,017,781	156,396,814
1952	1,500,000	61,225,011	11,530,259	44,426,125	428,925	6,517,346	125,627,666
1953	1,500,000	62,605,067	4,740,847	102,249,154	2,594,133	7,421,444	181,110,645

* On and after 20 August 1948 overseas assets and liabilities were converted into New Zealand currency at rate £(stg.)100 = £(N.Z.)100.

ASSETS OF RESERVE BANK

Year	Reserve		Subsidiary Coin	Advances to State		Other Advances and Discounts	Investments	Other Assets	Total Assets
	Gold	Exchange ¹		Marketing Organizations	Other Purposes				
	£	£	£	£	£	£	£	£	£
<i>Weekly Average for Calendar Year</i>									
1943	2,801,878	27,518,920	45,830	4,475,254	32,786,808	8,964,943	2,754,682	79,348,440	
1944	2,801,878	33,719,806	54,195	2,760,050	34,860,962	11,509,320	2,567,402	88,273,621	
1945	2,801,878	60,064,382	29,273	3,084,994	24,162,542	11,797,144	1,454,971	102,395,284	
1946	2,801,878	81,312,471	36,015	961,240	35,127,229	5,991,198	1,396,054	127,646,085	
1947	2,801,878	85,299,962	46,670	1,157,203	28,510,446	5,458	4,575,771	123,442,948	
1948*	2,802,095	65,090,053	104,372	1,698,055	35,182,207	2,437,044	10,496,117	125,359,132	
1949	3,222,775	48,995,317	193,110	3,481,530	37,628,087	4,906,554	41,855,369	142,255,252	
1950	4,268,600	51,575,759	179,923	5,095,797	52,245,056	5,378,210	31,312,874	152,333,375	

* On and after 20 August 1948 overseas assets and liabilities were converted into New Zealand currency at rate £(stg.)100 = £(N.Z.)100.

¹ Prior to 1950 the figures cover sterling exchange only; thereafter they include "other exchange" formerly shown under "other assets"; see also paragraph following for explanation of 1952 decreases.

² Holdings of overseas securities (see paragraph following) included in the figures given were £(N.Z.)30,243,854 and £(N.Z.)22,974,503 as the weekly averages for the calendar years 1952 and 1953 respectively, and £(N.Z.)32,140,080 and £(N.Z.)25,840,080 at the end of June 1952 and June 1953 respectively.

Year	Reserve		Subsidiary Coin	Advances to State		Other Advances and Discounts	Investments	Other Assets	Total Assets
	Gold	Exchange ¹		Marketing Organizations	Other Purposes				
	£	£	£	£	£	£	£	£	£
1951	5,138,610	62,939,854	472,691	4,378,907	51,133,741	6,829,079	27,107,125	3,224,282	160,234,289
1952	5,855,727	24,651,149	601,096	2,289,687	50,794,797	6,125,217	41,568,678 ²	1,761,416	133,647,767
1953	6,022,548	59,075,169	626,436	4,756,500	53,224,747	6,024,380	43,485,644 ²	951,878	174,167,302
<i>At End of June</i>									
1949*	3,359,317	58,963,306	208,123	3,875,191	29,522,285	5,015,100	48,094,301	830,568	149,868,191
1950	4,258,726	58,651,639	143,617	5,093,544	53,000,000	5,433,455	27,658,142	5,909,050	160,148,173
1951	5,156,819	78,539,036	485,685	4,032,608	50,000,000	6,494,919	7,974,228	3,713,519	156,396,814
1952	5,913,281	22,444,378	574,498	4,811,842	50,000,000	6,018,614	32,181,886 ²	3,683,167	125,627,666
1953	6,020,922	66,562,953	627,054	11,143,937	52,631,208	6,018,614	37,006,114 ²	1,099,843	181,110,645

* On and after 20 August 1948 overseas assets and liabilities were converted into New Zealand currency at rate £(stg.)100 = £(N.Z.)100.

¹ Prior to 1950 the figures cover sterling exchange only; thereafter they include "other exchange" formerly shown under "other assets"; see also paragraph following for explanation of 1952 decreases.

² Holdings of overseas securities (see paragraph following) included in the figures given were £(N.Z.)30,243,854 and £(N.Z.)22,974,503 as the weekly averages for the calendar years 1952 and 1953 respectively, and £(N.Z.)32,140,080 and £(N.Z.)25,840,080 at the end of June 1952 and June 1953 respectively.

The fall in the Reserve Bank's holding of sterling exchange in 1952 was due partly to the abnormally large volume of imports and partly to the conversion of liquid funds into sterling investments. Normally the Reserve Bank's sterling exchange is held in the form of British Treasury bills (short-term of interest), but as a matter of policy it was decided to invest a part of these funds in short- and medium-term British Government securities, which are included in the Reserve Bank's investments.

TRADING BANKS.—The Banking Act 1908, which consolidated the law of New Zealand relating to the general business of banking in this country, provides that the incorporation of banks by Royal Charter shall be as effectual within New Zealand as Acts of the General Assembly. The number of directors is prescribed by the Act, and authority is given to any bank to increase its capital on a resolution of the shareholders. Transfers of shares on which there is any liability must be approved by the directors or their duly appointed attorney or attorney. A sworn copy of an entry in the books of a bank shall in all legal proceedings be evidence of such entry, and a bank is not required in any legal proceedings to which it is not a party to produce its books before a Court, unless ordered by a Judge for special cause. Provision is made for the destruction of cheques, drafts, bills of exchange, or promissory notes after the expiration of ten years from the date thereof in the case of documents payable on demand or from the due date in the case of other documents.

Part II of the Bills of Exchange Act 1908 consolidated the law relating to cheques on a bank.

The provisions of sections 113-115 of the Companies Act 1933 (relating to branch registers) apply to banks incorporated in New Zealand, and those of Part XIII (imposing restrictions on the sale of shares and debentures) apply to companies incorporated outside New Zealand for the purpose of carrying on banking in New Zealand or elsewhere; otherwise the Companies Act does not apply to banks.

With the establishment of the Reserve Bank of New Zealand, which commenced to function on 1 August 1934, there was inaugurated an entirely new era in banking practice in New Zealand. The function of note issue was transferred from the coin and bullion to the Reserve Bank, while all gold coin or bullion held by trading banks for their own account was required by the Reserve Bank of New Zealand Act 1933 to be transferred to the Reserve Bank in exchange for equivalent notes of the Reserve Bank or for credit with that Bank. The basis of payment was £3 17s. 10½d. per ounce of standard—i.e., eleven-twelfths fine—gold content, which was the price at which such gold (in actual fact, coin only) had originally been acquired by the trading banks. Any profit derived from the sale of this gold overseas by the Reserve Bank accrues to the State and not to the Reserve Bank.

While the regulation of currency exchange is now a function of the Reserve Bank, commercial exchange transactions are still carried out through the medium of the trading banks.

Each trading bank is now required to maintain with the Reserve Bank a balance of not less than 25 per cent of its demand liabilities in New Zealand, and 12½ per cent of its time liabilities in New Zealand. These requirements may be varied by the Governor of the Reserve Bank, acting with the authority of the Minister of Finance, but not so as to be less than the percentages existing up to 31 July 1952—i.e., 7 and 3 per cent respectively. The existing rates were raised from 20 and 10 per cent respectively as from 31 May 1954, an earlier increase being from 10 and 5 per cent respectively from 11 May 1953.

There are five banks trading in New Zealand, two of these institutions—the Bank of New Zealand and the National Bank of New Zealand—being incorporated by special Acts of the General Assembly of New Zealand. The other three banks, which are predominantly Australian institutions, have in the aggregate much greater capital resources, etc., than the two New Zealand banks. The close Australasian affiliations of the Australian banks operating in New Zealand resulted in part in an interlocking between the Australian and New Zealand financial structures, the separation of New Zealand business being one of the major motives leading up to the founding of the Reserve Bank.

Bank of New Zealand.—On the passing of the Bank of New Zealand Act 1945, which came into operation on 1 November 1945, the Bank of New Zealand became a State trading bank. Prior to the passing of the Act the Bank was partly State-owned, the New Zealand Government holding preference and certain long-term mortgage shares to the aggregate value of £2,109,375 out of a total paid-up capital of £6,328,125. The Act provided for the acquisition by the Crown of the whole of the remaining shares registered in New Zealand, and also made provision for the purchase by the Crown of shares registered in the United Kingdom or Australia.

The gross profit of the Bank for the year ended 31 March 1953, was £3,567,399, while expenses amounted to £3,110,210, leaving a net profit of £457,189. Comparable figures for the previous year were £3,027,432, £2,610,884, and £416,548 respectively. The total assets at 31 March 1953 amounted to £132,790,028, the principal items comprising this total being: coin, Reserve Bank notes, and deposits with bankers, £37,441,567; money at call and short notice, Government securities and other securities in London, £3,769,179; New Zealand Government securities, £8,866,382; and advances, etc., £60,205,598. The principal item of liabilities was deposits (£11,851,376), while bills payable, etc., amounted to £8,058,264. The reserve fund, which is invested in United Kingdom Government securities, amounted to £3,575,000, and provision for taxation to £1,036,000. The paid-up capital of the Bank remained unaltered at £6,328,125.

Liabilities and Assets of Trading Banks.—Statements of liabilities and assets of the trading banks were gathered quarterly up to 1934. Since the Reserve Bank commenced operations the trading banks have been required to submit at monthly intervals a return of liabilities and assets in respect of New Zealand business. Monthly averages for calendar years 1943-53, and figures as at the last Wednesday in June for the years 1949-53, are given in the next table.

LIABILITIES OF TRADING BANKS

Year	Demand Liabilities		Time Liabilities			Total Liabilities
	In New Zealand	Outside New Zealand	In New Zealand	Outside New Zealand	Outside New Zealand	
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
<i>Monthly Average for Calendar Year</i>						
1943	78,549	496	29,100	121	108,266	
1944	88,644	539	30,481	101	119,765	
1945	99,836	692	31,634	88	132,250	
1946	117,071	1,334	34,414	100	152,919	
1947	128,115	4,876	37,870	317	171,778	
1948	138,211	6,947	40,403	295	185,856	
1949	150,699	7,056	39,016	439	197,210	
1950	167,526	7,039	39,787	428	214,781	
1951	196,663	7,676	59,405	2,378	266,122	
1952	187,478	8,552	67,985	1,034	265,048	
1953	210,236	4,523	58,147	816	273,722	
<i>At End of June</i>						
1949	153,621	7,861	38,666	489	200,637	
1950	165,432	8,344	40,194	491	214,462	
1951	211,864	5,638	57,488	1,834	276,825	
1952	192,186	10,481	67,244	732	270,643	
1953	219,378	3,941	57,804	848	281,971	

* On and after 20 August 1948 overseas liabilities were converted into New Zealand currency at rate £(stg.)100 = £(N.Z.)100.

ASSETS OF TRADING BANKS

Year	Coin and Bullion	Reserve Bank Notes	Balances Held in Reserve Bank	Overseas Assets ¹	Securities Held	Advances and Discounts	Land, Buildings, etc.	Total Assets
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
<i>Monthly Average for Calendar Year</i>								
1943	622	4,645	27,650	11,873	37,672	43,021	1,931	127,414
1944	704	5,165	33,515	12,586	38,565	46,806	1,921	139,262

* On and after 20 August 1948 overseas assets were converted into New Zealand currency at rate £(stg.)100 = £(N.Z.)100.

Year	Coin and Bullion	Reserve Bank Notes	Balances Held in Reserve Bank	Overseas Assets*	Securities Held	Advances and Discounts	Land, Buildings, etc.	Total Assets
1945	678	6,058	45,666	14,427	31,808	51,618	1,928	152,183
1946	727	6,880	60,186	13,976	28,462	58,342	1,957	170,530
1947	909	7,500	57,631	18,488	23,037	76,247	2,118	185,930
1948	1,410	7,872	59,531	20,706	18,896	86,470	2,180	197,065
1949	1,515	8,697	75,908	22,021	14,670	81,981	2,278	207,069
1949	1,681	9,813	75,180	24,830	13,407	94,065	2,557	221,533
1951	1,528	11,476	70,274	37,330	13,243	133,079	3,085	270,016
1952	1,473	11,108	51,149	26,571	13,036	166,560	3,583	273,481
1953	1,533	10,625	93,093	25,584	14,037	134,455	4,059	283,385
At End of June								
1949	1,557	8,046	86,161	21,973	13,554	80,070	2,250	213,611
1950	1,694	9,131	76,787	27,440	13,418	91,573	2,465	222,508
1951	1,549	11,361	73,581	46,965	13,243	132,743	3,102	282,546
1952	1,419	11,083	44,250	30,740	13,090	173,056	3,469	277,108
1953	1,509	9,858	102,126	31,690	13,848	128,295	4,044	291,371

* On and after 20 August 1948 overseas assets were converted into New Zealand currency at rate £(stg.)100= £(N.Z.)100.

Deposits and Advances.—The weekly averages of total deposits (together with the amount per head of mean population), and of total advances, and the ratio of advances to deposits for each of the last eleven calendar years, are given in the following table.

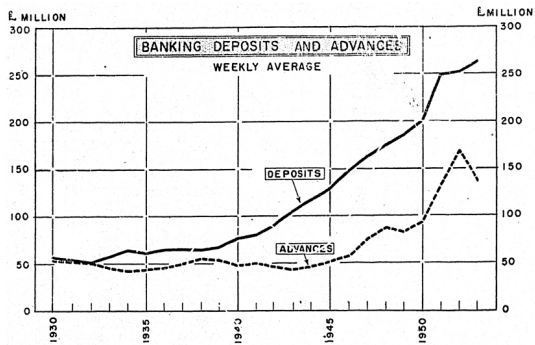
Year	Deposits					Advances ¹				
	Not Bearing Interest (Free)	Bearing Interest (Fixed)	Ratio of Free to Fixed	Total ²	Per Head of Mean Population	Total Amount	Ratio to Deposits	Per Cent	Per Cent	Per Cent
	£	£	Per Cent	£	£	£	£	£	£	£
1943	73,977,319	31,152,857	237.47	106,323,897	65	0	1	43,249,581	40.68	
1944	83,680,126	32,742,165	255.57	117,568,290	71	0	1	46,773,498	39.78	
1945	94,627,252	34,197,628	276.71	130,137,939	76	15	11	51,766,198	39.78	
1946	111,289,147	37,019,091	300.63	149,777,364	85	2	6	58,270,843	38.90	
1947	122,068,104	40,459,866	301.70	164,197,520	91	5	10	76,475,734	46.58	
1948	130,940,692	42,690,257	306.72	175,668,670	95	15	0	88,159,764	50.19	
1949	142,597,894	41,292,234	345.34	186,092,099	99	8	5	83,357,042	44.79	
1950	157,571,265	42,201,491	373.38	202,200,423	105	18	3	94,715,117	46.84	
1951	205,335,653	42,500,225	483.14	250,722,652	128	14	9	132,916,945	53.01	
1952	207,043,718	42,436,002	487.90	252,967,759	126	14	7	169,841,486	67.14	
1953	222,077,415	39,831,913	557.54	265,269,411	129	9	6	136,827,108	51.58	

¹ Including Government deposits.

² Exclusive of transfers by the Bank of New Zealand to its Long Term Mortgage Department.

It will be observed that free deposits have shown a phenomenal increase over the period covered by the table, the difference in the average for 1953 as compared with 1943 being £148,100,096, or 200 per cent. Fixed deposits commenced to move slowly upwards from 1943 to 1948, remained stable until 1952, but fell sharply in 1953. Advances reached a low point in 1943, after which there was an upward movement to 1948, an appreciable fall in 1949, substantial rises from 1950-52, and a pronounced fall in 1953. The substantial excess of deposits over advances has resulted in the balances maintained by the trading banks with the Reserve Bank being greatly in excess of statutory requirements (see page 764). The average amount held during 1953 was £93,093,000, whereas the average of minimum requirements amounted to £29,745,369 only.

The following diagram illustrates the movements that have occurred in deposits and advances from 1930 onwards, the figures used, as in the foregoing table, being the weekly averages for calendar years.



The average amount on deposit during each of the quarter months since March 1949 is shown in the next table.

Month	1949	1950	1951	1952	1953
March	181,693,724	200,731,186	234,204,149	260,171,824	257,892,154
June	189,566,588	208,102,712	266,551,791	256,333,329	276,430,522
September	186,340,961	196,349,451	256,896,010	242,416,672	264,394,682
December	189,987,053	213,099,894	257,604,270	248,160,573	271,305,214

The average amount of advances outstanding (exclusive of transfers by the Bank of New Zealand to its Long Term Mortgage Department) during each of the quarter months since March 1949 is next shown.

Month	1949	1950	1951	1952	1953
March	88,945,513	94,282,753	133,079,705	189,257,482	142,133,063
June	81,950,154	91,637,951	134,890,219	179,166,440	132,163,069
September	81,085,847	97,387,772	132,776,112	164,488,852	135,394,669
December	83,347,044	109,892,879	153,659,685	147,770,534	140,651,034

The following table shows the movement in advances, Government and other securities held, and deposits during the years 1943-53, the amounts being the averages of the figures for the last Monday of each month for the period 1943-46, and the last Wednesday of each month from 1947 onwards.

Year	Advances (Including Discounts)		Securities Held		Total Advances and Securities	Total Deposits		Ratio of Advances (Plus Securities) to Total Deposits
	Government	Other	Government	Other		£	£	
1943	43,020,539	36,103,048	1,569,004		80,692,591	107,151,323	75.31	
1944	46,805,743	36,140,565	2,424,299		85,370,607	118,484,545	72.05	
1945	51,617,728	29,334,721	2,473,174		83,425,623	130,888,109	63.74	
1946	58,341,772	26,168,228	2,293,476		86,803,476	150,682,014	57.61	
1947	76,246,658	20,913,053	2,123,549		99,283,260	164,894,840	60.21	
1948	86,469,960	16,953,475	1,942,263		105,365,698	177,636,660	59.32	
1949	81,980,874	12,856,226	1,813,363		96,650,463	188,385,161	51.30	
1950	94,065,057	11,730,302	1,676,714		107,472,073	205,295,038	52.35	
1951	133,079,459	11,716,060	1,527,155		146,322,674	253,918,280	57.63	
1952	166,559,748	11,700,851	1,335,422		179,596,021	253,527,528	70.84	
1953	134,455,455	11,688,231	2,348,383		148,492,069	266,988,725	55.62	

The fall in the value of Government securities held by the trading banks in the post-war years reflected the policy of the Government, which was to repay the trading banks' holdings of stocks as they mature and not to permit reinvestment of the proceeds in Government stocks.

An analysis of advances of the New Zealand trading banks at quarterly intervals is published by the Reserve Bank of New Zealand, and, the classification as at the last Wednesday in March for the years 1949-53 is given in the following table.

Advances to	At End of March				
	1949	1950	1951	1952	1953
Farmers—	£(000)	£(000)	£(000)	£(000)	£(000)
Mainly dairy	7,210	6,781	7,932	8,947	8,013
Mainly meat	5,795	4,883	5,397	6,350	6,473
Mainly wool	1,203	1,124	1,057	904	1,007
Mainly agricultural	680	689	805	993	973
Mixed	4,424	3,828	3,962	4,343	4,156
Industries allied to primary production—					
Dairy companies, factories, etc.	628	497	730	773	642
Freezing works, meat companies, etc.	8,584	9,411	13,879	17,998	6,805
Woolen mills	1,527	1,442	2,070	3,942	2,843
Wool buyers	2,276	5,443	11,161	4,142	2,818
Other	4,163	4,272	4,348	6,597	7,208
Other manufacturing and productive industries	15,037	14,774	20,477	32,492	26,599
Merchants, wholesalers—					
Mainly importers	5,925	7,578	10,663	21,018	12,138
Others	2,155	2,829	3,129	6,171	4,709
Retailers	7,659	8,258	11,347	20,658	13,961
Transport—					
Shipping	181	378	622	305	446
Other	1,713	1,767	2,442	3,298	3,254
Local and municipal authorities, public utility concerns	905	989	1,566	1,486	2,244
Stock and station agents	644	641	1,437	4,512	3,071
Hotels (public and private), restaurants, etc.	2,267	2,082	2,570	2,910	2,888
Financial companies, societies, etc.	1,771	1,925	2,454	2,936	1,874
Professional	1,999	2,045	2,778	3,079	2,853
Private individuals	8,334	9,163	14,563	18,787	16,908
Other	3,667	3,850	5,342	7,269	6,520
Total advances	88,745	94,649	130,732	179,912	138,401

A table drawn from Reserve Bank published sources, showing a regional analysis of trading bank advances as at 25 June 1952, was given on page 678 of the 1953 issue of the Year-Book.

Advances Control Policy.—As part of the Government policy designed to combat inflationary tendencies during wartime, from 1943 onwards the trading banks were precluded from increasing their holdings of securities and existing holdings of Government stock were repaid as they matured. An earlier measure, from January 1942, was the selective control of trading bank advances by the Reserve Bank in co-operation with the trading banks. The general aim was to prevent the expansion of bank credit for speculative and other purposes considered inimical to the war effort. The necessity for such controls was also a feature of the immediate post-war years. The Reserve Bank issued statements in 1947 and 1948 outlining the existing policy in this respect, and indicating the inclusion in the restricted categories of advances for purely investment purposes, capital expenditure for business, industrial and commercial purposes, building, purchasing or refinance of dwellings, in addition to those speculative and other classes previously covered.

Marginal cases and others involving special circumstances were referred to the Reserve Bank, the trading banks from time to time being given more discretion in dealing with such cases.

In March 1950 this discretion was extended so that marginal applications need only be referred to the Reserve Bank in cases where the term of the proposed advance exceeded two years and where the amount was also in excess of £2,000.

A major relaxation in the policy became effective from 24 May 1950. Advances for amounts up to £2,000 from each applicant were exempted from control, while the discretionary limit was raised to an amount not greater than £4,000, the latter being in order to allow for the new situation in which the first £2,000 was freed from control.

The number of restricted classes has also been reduced. In 1947 temporary finance for one year for the building of dwellings, and again in August 1949, advances to enable primary producers to purchase essential farm equipment and machinery up to the limit of £1,500, provided repayment was made within two years, were taken out of the restricted categories. As from 24 May 1950 advances for the following classes of purchase were excluded from control, irrespective of the amount concerned: (a) livestock needed for primary production; (b) farm machinery, farm vehicles, and farm implements; and (c) tools of trade (exclusive of industrial machinery).

The Reserve Bank issued a statement of advances control policy on 17 December 1951, the measures listed therein being designed to modify certain trends shown in aggregate bank advances and having some undesirable consequences—namely, (a) a high level of demand supported by bank credit was accentuating the tendency of prices to rise; (b) an abnormal volume of imports was being financed to a large extent by bank credit; and (c) many business concerns were relying too much on their banks to provide working capital.

The measures contained in the statement included firstly, a request to trading banks: (a) to examine all accounts where trading limits exceeded £10,000, and where clients were relying too greatly on bank accommodation in proportion to their capital structure the necessary particulars were to be supplied to the Reserve Bank, which would take action, if required, after consideration of all relevant factors, including the practicability of obtaining from non-banking sources finance on reasonable terms without undesirable economic or financial consequences; (b) applications for increased limits in the over £10,000 category were to be referred to the Reserve Bank where the trading banks considered the client was relying too greatly on bank accommodation; temporary increases where the excess was justified and which would be repaid within six months were left to the discretion of the trading banks. Secondly, except with the approval of the Reserve Bank in each case, increases would not be granted in any importer's current limit to enable the importer to buy overseas funds (discretion to grant temporary assistance limited to a maximum period of three months to cope with existing abnormal conditions was given to the trading banks). The third measure was the examination of all existing advances to hire-purchase concerns (also advances to concerns which undertook hire purchase as a part of their main business) with a view to securing, wherever practicable, reductions in such advances or improvements to existing programmes of reduction. Finally, while limits exceeding £10,000 were under specific review, all trading bank limits below this figure were to be watched closely, taking into consideration the relationship between overdraft and proprietors' funds; increases were to be avoided wherever possible and adherence was to be made to programmes of reduction.

Although the advance control policy as outlined above was continued, it was supplemented in 1952 by the quantitative control of advances provided for in section 45 of the Reserve Bank of New Zealand Act. This section authorizes the Bank with the consent of the Minister of Finance to vary the statutory reserve ratios of the trading banks, but not so as to be less than 7 per cent of their demand liabilities and 3 per cent of their time liabilities. In August 1952 these ratios were

increased for the first time so that the trading banks were required to maintain minimum deposits with the Reserve Bank equal to 10 per cent of their demand liabilities and 5 per cent of their time liabilities, and were later increased, in May 1953, to 20 and 10 per cent respectively, and in May 1954, to 25 and 12½ per cent respectively. The Reserve Bank stated, in announcing the May 1953 increase, that in recent months the actual balances held by

the trading banks at the Reserve Bank had been considerably in excess of the statutory minimum, and that this excess was a potential basis for an expansion of bank credit which would be inflationary in its effect and add to the difficulty of maintaining the external balance of payments. The purpose of raising the ratios was to reduce this excess of bankers' cash and not to bring about any further tightening of the trading banks' lending policies.

Capital Issues Control.—During the war period fairly intensive control was maintained over the issue of new capital, but in the post-war period such control was progressively eased. However, the heavy demand for capital moneys and the tendency for interest yields to increase in the later part of 1951 and early 1952 caused the Government to decide to apply the existing powers of control over capital issues given by the Finance Emergency Regulations (No. 2) 1940 (see later) more fully. A Capital Issues Committee was therefore set up in 1952 to advise on approval of applications for new capital issues, including shares, debentures, and mortgages, which may not be made without the consent of the Minister of Finance. Consent is more likely to be given to cases (a) where no recourse to new finance is involved—e.g., bonus issues, amalgamations, etc.; (b) where a substantial increase of exports or saving of imports may be expected to result, whether directly or indirectly; and (c) where substantial shortages of essential goods will be met.

The following table shows the total approvals made during the period 1949–53.

Year	Registrations		Increases and Allotments		Mortgages and Debentures		Totals	
	No.	Value	No.	Value	No.	Value	No.	Value
		£(000)		£(000)		£(000)		£(000)
1949	51	1,766	102	5,815	57	2,716	210	10,298
1950	59	3,505	101	7,080	64	1,476	224	12,061
1951	148	7,437	184	10,709	173	9,980	505	28,126
1952	173	5,473	215	10,663	259	8,598	647	24,734
1953	166	5,256	181	8,603	202	8,214	549	22,073

Debits and Clearings.—The following table shows weekly averages of bank debits and clearings for each of the years 1943 to 1953.

Year	Debits Other Than Government		Government Debits		Clearings	
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
1943	23,008	3,604	14,211			
1944	24,567	3,860	15,205			
1945	26,791	4,277	16,625			
1946	31,912	4,764	19,388			
1947	40,547	4,927	23,646			
1948	43,062	5,862	25,254			
1949	45,161	6,329	26,228			
1950	56,242	7,120	33,829			
1951	70,234	8,496	42,755			
1952	70,554	9,951	40,503			
1953	73,996	10,063	43,062			

Debits represent the total amount debited to customers' accounts at all branches, and clearings show the total outward exchanges delivered at all branches. These figures, which have been compiled from the weekly returns furnished by the trading banks to the Government Statistician, give a reasonable indication of changes in the volume of business. The upward movement evident in 1939 has generally continued since, the 1950 and 1951 increases being particularly sharp ones. Government debits with trading banks fell to comparatively small proportions as a consequence of the opening of the Reserve Bank, but the upward movement in evidence since 1936 has been more marked over the last five years.

Averages of debits (other than Government) and of clearings for the four or five weeks ending on the last Wednesday of each of the quarter months from March 1949 onwards are now given.

Month	1949		1950		1951		1952		1953	
	£	£	£	£	£	£	£	£	£	£
<i>Debits, Other Than Government</i>										
March	56,504,880	64,796,602	67,923,643	93,155,869	90,859,613					
June	44,197,842	55,101,836	69,359,131	64,175,971	68,695,907					
September	41,854,078	50,180,423	70,929,857	58,800,426	68,097,118					
December	48,242,366	76,009,481	75,562,122	76,614,075	87,072,000					
<i>Clearings</i>										
March	34,659,911	41,338,589	48,080,537	54,094,683	59,757,736					
June	27,063,949	34,648,707	44,123,724	37,210,960	41,257,058					
September	23,736,609	29,329,623	41,911,876	33,944,307	37,203,959					
December	26,928,498	45,303,019	41,482,532	43,926,446	49,418,959					

Unexercised Overdraft Authorities.—Particulars of aggregate unexercised overdraft authorities of trading banks are available from April 1936. Following are the averages for calendar years and the amount at the end of June for each of the years 1943–53.

Year	Average for Calendar Year		At End of June	
	£	£	£	£
1943	35,847,500	36,201,863		
1944	37,120,062	38,381,075		
1945	40,273,686	38,827,474		
1946	45,040,514	46,490,947		
1947	46,669,296	48,261,554		
1948	50,649,891	50,215,837		
1949	57,686,120	58,730,338		
1950	64,177,791	63,116,374		
1951	72,229,739	76,425,329		
1952	69,887,619	68,825,103		
1953	93,464,105	93,094,517		

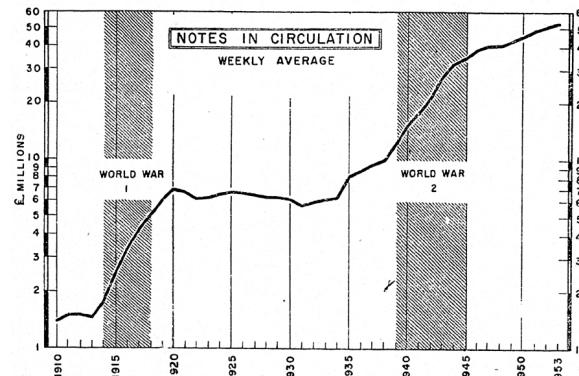
NOTES IN CIRCULATION.—As indicated elsewhere, the Reserve Bank assumed the note-issuing function on 1 August 1934. As from 10 January 1935 the notes of the trading banks ceased to be legal tender, while on 1 August 1936 the liability for the remaining outstanding trading-bank notes was taken over by the Reserve Bank, thus completing the process of the transfer of the note issue to the Reserve Bank. The following table shows the weekly average note circulation for the calendar years 1943–53, and the position as at the last Wednesday in June for the years 1949–53.

Year	Total Note Issue		Notes Held by Trading Banks		Net Note Circulation	
	£	£	£	£	£	£
<i>Average for Calendar Year</i>						
1943	32,586,607	4,950,457	27,636,150			
1944	37,453,367	5,351,395	32,101,972			
1945	41,122,773	6,139,732	34,983,041			
1946	45,169,050	6,970,707	38,198,343			
1947	47,682,438	7,555,356	40,127,082			
1948	48,930,097	8,133,753	40,796,344			
1949	51,311,531	8,776,501	42,535,030			
1950	55,126,290	9,898,343	45,227,947			
1951	60,361,145	11,390,930	48,970,195			

Year	Total Note Issue	Notes Held by Trading Banks	Net Note Circulation
1952	62,251,858	11,273,450	50,978,408
1953	64,034,746	10,647,601	53,387,145
<i>At End of June</i>			
1949	50,309,939	8,045,914	42,264,025
1950	54,147,577	9,130,680	45,016,897
1951	59,803,597	11,361,032	48,442,565
1952	61,225,011	11,083,479	50,141,532
1953	62,605,067	9,858,281	52,746,786

The following diagram illustrates the expansion in the note issue since the year 1910.

The following diagram illustrates the expansion in the note issue since the year 1910.



The year 1935 witnessed the commencement of an almost continuous upward movement in the note circulation, owing to more favourable economic conditions in association with such factors as the restoration of wage and salary cuts, higher wage rates, greater activity on public works and housing, increased pensions, etc. Between the months of September 1935 and September 1939 the increase in the average note circulation was 98 per cent. Following the outbreak of war, the increase in the note circulation quickened, the expansion in 1942 and 1943 being particularly marked. The upward movement has since continued, but at a considerably lesser rate.

The following reasons have been given by the Reserve Bank for the increase in the net note circulation noted over recent years. The basic fact is the substantial increase in incomes and in the total volume of money (coin, notes, bank demand deposits), the proportion of notes to the total volume of money remaining at a level of approximately 20 per cent. Other reasons include a rise in the number of cash transactions and in price levels, an apparent fall in the velocity of circulation, expenditure of wartime accumulated savings and, with the greater availability of consumer goods, expenditure made more freely from current income.

The following table of index numbers published by the Reserve Bank illustrates the changes that have occurred in the active note circulation in the United Kingdom, Canada, Australia, and New Zealand for the calendar years 1950 to 1952, the base being August 1939 (=100).

	1950				1951				1952			
	United Kingdom	Canada	Australia	New Zealand	United Kingdom	Canada	Australia	New Zealand	United Kingdom	Canada	Australia	New Zealand
January	265	514	556	382	271	521	626	403	284	554	737	434
February	264	512	555	375	271	523	630	397	285	556	733	424
March	267	517	560	372	275	533	655	401	289	565	743	421
April	271	521	573	382	276	534	660	406	294	571	757	432
May	271	517	569	380	278	536	671	407	293	572	751	427
June	271	517	577	380	281	543	682	409	298	579	756	426
July	275	524	581	382	285	550	690	419	306	586	760	424
August	274	523	585	382	286	551	699	420	303	590	770	427
September	270	529	591	381	282	557	709	419	299	595	780	427
October	268	535	595	385	283	562	713	423	299	602	790	433
November	269	537	601	385	284	567	722	423	301	606	798	434
December	277	546	625	406	293	581	742	440	313	619	823	454

* Notes and coin, excluding notes and coin held by Bank of England Reserve, London clearing banks, and Scottish and Northern Ireland banks.

† Chartered bank note circulation and Bank of Canada notes—average of daily figures

An analysis of the net bank-note circulation, as at the last Monday in June over the years 1943–46 and the last Wednesday in the same month for later years, is compiled by the Reserve Bank of New Zealand, and the figures for the years 1943–53 are contained in the following table.

Last Balance Day in June	Reserve Bank Note Issue					Total Reserve Bank Issue in Circulation	Trading Banks' Notes Outstanding	Total Net Note Circulation
	10s	£1	£5	£10	£50			
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
1943	929	7,466	14,139	2,293	2,316	27,143	381	27,524
1944	963	8,010	17,243	2,979	2,751	31,946	376	32,322
1945	1,011	8,740	19,306	3,061	2,006	34,124	370	34,494
1946	1,114	9,443	21,652	3,510	1,751	37,470	366	37,836
1947	1,144	9,373	22,582	4,345	2,035	39,479	363	39,842
1948	1,176	9,236	23,055	4,749	1,963	40,179	361	40,540
1949	1,208	9,353	24,102	5,137	2,106	41,906	358	42,264
1950	1,285	9,328	25,868	5,773	2,406	44,660	357	45,017
1951	1,281	9,412	27,833	6,865	2,697	48,088	356	48,443
1952	1,334	9,284	28,787	7,571	2,810	49,787	355	50,142
1953	1,378	9,312	30,185	8,459	3,059	52,394	353	52,747

OVERSEAS ASSETS OF BANKS.—Under section 46 of the Reserve Bank of New Zealand Act 1933 the trading banks are required to supply returns to the Reserve Bank at monthly intervals, showing, *inter alia*, overseas assets held and liabilities incurred on account of New Zealand business. From these statements, published in the *New Zealand Gazette*, and the weekly gazetted statements of assets and liabilities of the Reserve Bank, the following table has been compiled. The figures for net overseas assets include, in addition to sterling exchange, the Reserve Bank holdings of foreign exchange and overseas investments, less its liabilities in other currencies.

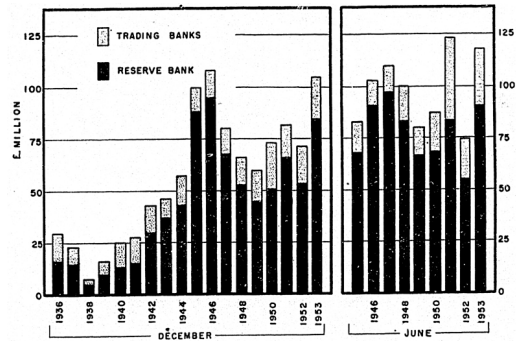
Year	Trading Banks' Overseas Assets			Reserve Banks' Overseas Assets			Gross Overseas Assets			Overseas Liabilities of Reserve Banks			Net Overseas Assets
	In London	Elsewhere		Sterling Exchange	Other Overseas Assets		Trading Banks	Reserve Banks		Trading Banks	Reserve Banks		
	£N.Z.(000)	£N.Z.(000)		£N.Z.(000)	£N.Z.(000)		£N.Z.(000)	£N.Z.(000)		£N.Z.(000)	£N.Z.(000)		
<i>Monthly Average for Calendar Year</i>													
1943	9,955	1,918		27,678	3,333		42,884	617		98			42,169
1944	10,672	1,906		33,817	4,142		50,577	640		128			49,769
1945	12,481	1,946		61,702	5,147		81,277	780		79			80,418
1946	11,639	2,337		83,265	4,966		102,207	1,435		52			100,720
1947	13,073	4,516		85,056	4,532		108,076	5,194		248			102,634
1948*	17,606	3,099		64,102	6,578		91,386	7,242		65			84,079
1949	18,021	4,000		48,741	7,397		78,159	7,495		48			70,617
1950	20,525	4,304		51,206	6,613		82,648	7,468		41			75,139
1951	32,064	5,266		61,537	15,259		114,126	10,054		50			104,022
1952	19,904	6,667		23,744†	31,954†		82,268	9,586		50			72,633
1953	21,711	3,872		59,414†	23,948†		108,946	5,339		43			103,564
<i>At End of June</i>													
1943	8,819	2,348		29,685	3,763		44,614	665		18			43,931
1944	9,163	2,235		31,597	4,872		47,867	693		1,264			45,910
1945	13,910	1,920		62,417	5,680		83,927	663		19			83,246
1946	12,041	1,576		85,520	5,584		104,721	1,466		53			103,203
1947	12,922	5,032		93,933	4,316		116,203	5,530		1,289			109,384
1948	19,593	2,762		79,522	4,340		106,217	6,186		15			100,017
1949†	17,312	4,661		58,963	7,441		88,377	8,349		41			79,987
1950	23,014	4,426		58,652	9,793		95,885	8,835		33			87,016
1951	41,774	5,192		78,120	5,820		130,905	7,473		116			123,316
1952	23,977	6,762		20,741†	34,411†		85,892	11,213		90			74,588
1953	28,110	3,580		65,898†	24,856†		122,444	4,789		100			117,555

* On and after 20 August 1948 overseas assets and liabilities were converted into New Zealand currency at rate £(s)100 = £N.Z.100.

† Included in the item "Other Overseas Assets" are sterling investments of £32,140,000 and £25,840,080 at the end of June 1952 and June 1953 respectively, and averaging £30,243,854 and £22,974,503 for the calendar years 1952 and 1953 respectively. Prior to 15 August 1951 the corresponding amounts were shown under the "Sterling Exchange" heading.

Overseas assets declined heavily during the three years 1937-39, particularly after May 1938, ascribable to three principal causes—(1) the repatriation of capital temporarily held in New Zealand, (2) over-importation, and (3) investment abroad of New Zealand capital. In December 1938 the Government took action to check the fall in the sterling funds, and introduced import and export control and also the control of overseas remittances. These measures, combined with the earlier crediting of the proceeds of the country's staple exports to the United Kingdom as a result of United Kingdom governmental purchases and other factors arising out of wartime agreements, brought about a marked improvement in the exchange position early in 1940. Although there were fluctuations from time to time, each subsequent year witnessed a further improvement in the general level until 1947, when the net amount was £102,634,000. Figures from 1948 to 1950 showed successive declines to an average of £75,139,000. The fall in these years was principally due to the financing of a greater volume of imports at higher prices, the repayment of debt domiciled overseas, and to the alteration in the exchange rate in 1948 mentioned elsewhere in this Section. The 1951 totals showed a marked improvement and reflect the high prices ruling for primary produce, notably wool, during the earlier part of the year, while 1952 figures reflect the heavy payments made to finance the excess of import payments over export receipts during that year. The effects of the exchange allocation scheme resulting in smaller payments on account of imports, together with the higher export receipts, have been largely instrumental in increasing net overseas assets in 1953 to their present level.

The following diagrams show the movement in the net amount of overseas assets from 1936 onwards, the first portion showing the figures as at the end of December and the second portion as at the end of June, in each year quoted. The low level to which they had fallen in 1938, the progressive accumulation up to 1946, the contraction during 1947-49, the recovery in 1950, the strong upward movement during 1951, the fall in 1952, and subsequent rise in 1953, are strikingly illustrated.



OVERSEAS RECEIPTS AND PAYMENTS.—Since the institution of exchange control in New Zealand the Reserve Bank has been able to make a comprehensive statement of the foreign exchange transactions of the banking system for the period during which the control has been operating. A full classification of overseas receipts and payments for the calendar years 1952 and 1953, showing details for the sterling area, dollar area, and other countries separately, in addition to the over-all figures, is given below; figures for 1950 and 1951 are given in preceding issues of the Year-Book.

Item	1952				1953			
	Sterling Area	Dollar Area	Other Countries	Total	Sterling Area	Dollar Area	Other Countries	Total
	<i>Receipts £N.Z.1000</i>							
Current items—								
Exports—								
Butter	43,392	1,521	3,670	48,583	46,321	723	4,176	51,220
Cheese	14,598	825	646	16,070	19,620	675	360	20,656
Meat	39,026	320	158	39,505	48,402	510	567	49,478
Wool	36,314	17,110	21,072	74,496	44,725	12,894	30,125	87,743
Other	22,068	8,697	6,491	37,255	19,998	9,339	4,920	34,256
Totals, export receipts	155,398	28,474	32,038	215,909	179,066	24,141	40,148	243,353
Transport—								

NOTE.—Minus sign (—) denotes a deficit.

Item	1952				1953			
	Sterling Area	Dollar Area	Other Countries	Total	Sterling Area	Dollar Area	Other Countries	Total
	<i>Payments £N.Z.1000</i>							
Freights	391	1	5	395	514		18	532
Fares	33	1	5	39	76	5		81
Other	1,352	23	16	1,393	945	14	18	977
Insurance	589	20	11	621	786	10	34	830
Travel (excluding fares)	1,577	97	11	1,685	1,427	112	34	1,574
International investment income—								
Interest and dividends	2,598	13	127	2,738	3,308	13	151	3,472
Other investment income	2,292	355	48	2,695	2,324	42	62	2,428
Government receipts and expenditure by other Governments in New Zealand	954	37	149	1,140	1,670	29	126	1,825
Miscellaneous—								
Commissions, royalties, and rebates	1,078	156	47	1,281	347	119	18	484
Expenses of business firms	667	74	11	753	336	24	32	392
Personal receipts, legacies, and immigrants' transfers	6,957	367	114	7,439	5,273	452	96	5,822
Other current transactions	1,174	142	28	1,345	485	295	13	793
Totals, current	175,060	29,759	32,610	237,433	196,559	25,256	40,749	262,566
Capital transfers—								
Private	7,059	602	37	7,699	2,553	179	40	2,772
Government					782			782
Totals, capital	7,059	602	37	7,699	3,335	179	40	3,554
Cook Islands exports	186	32	5	224	13	96	7	116
Unidentified	84	6	-82	8	60	20	2	83
Grand totals, receipts	182,389	30,400	32,570	245,362	199,966	25,552	40,799	266,318
Current items—								
Imports—								
Licensed	29,471	22,777	4,247	56,497	23,697	13,644	1,219	38,559
Controlled	130,677	1,094	7,400	139,170	110,516	2,749	6,062	128,328
Government	27,340	2,822	128	30,290	25,350	1,540	174	27,064
Other	4,121	35	180	4,306	3,247	36	212	3,495
Totals, import payments	191,609	26,729	11,925	230,263	171,810	17,969	7,667	197,446
Transport—								
Freights on exports	657	74	61	792	211	97	145	453
Fares	791	87	6	884	466	134	4	605
Ships' charter	2,493			2,493	299			300
Other	23	1	3	27	188	1	10	199
Insurance—								
Insurance	115	9	7	132	139	13	8	160
insurance	622			622	624			624
Travel (excluding fares)	504	28	46	578	920	213	18	1,151
International investment income—	4,837	199	51	5,086	4,450	164	60	4,673
Interest and dividends	1,837	411	16	2,263	1,774	913	12	2,699
Other investment income	3,021	321	96	3,439	1,996	325	94	2,414
Government interest	2,482			2,482	2,482			2,482
Local authority interest	233			233	209			209
Government expenditure overseas	4,605	446	84	5,136	10,359	673	18	11,049
Miscellaneous—								
Commissions, royalties, and rebates	769	620	428	1,817	677	376	311	1,363
Expenses of business firms	1,860	392	65	2,317	2,190	737	95	3,022
Film hire and entertainment	247	472	1	720	282	564	2	849
Religious and charitable	446	8	60	514	496	6	93	595
Personal receipts, legacies, and emigrants' transfers	3,026	197	180	3,403	3,562	200	296	4,060
Transfers by temporary residents	709	57	16	782	1,059	64	26	1,145
Other current transactions	373	28	18	419	499	108	37	645
Totals, current	221,259	30,079	13,063	264,401	204,693	22,558	8,895	236,146
Capital transfers—								
Private	3,509	88	45	3,642	3,159	31	43	3,232
Government	596			596	526			526
Local authority	75	1		76	154			154
Totals, capital	4,181	89	45	4,315	3,839	31	43	3,913
Cook Islands imports	80	2	6	87	71	19		90
Grand totals, payments	225,519	30,170	13,114	268,803	208,603	22,607	8,939	240,149
Surplus of receipts over payments	-43,154	230	19,482	-23,441	-8,637	2,945	31,860	26,169

NOTE.—Minus sign (—) denotes a deficit.

In order to assist in measures for strengthening the sterling area reserves and the balance of payments generally, the Government of New Zealand announced in March 1952 certain decisions designed to ensure an increased surplus in New Zealand's overall balance of payments with non-sterling countries from an estimated £5 million for 1952 to £25 million on an annual basis (June year 1952-53). Measures listed covered the cancellation of licences issued for imports from all "scheduled" countries (the United States of America, Canada, and Japan are the countries with which New Zealand is principally concerned), new licences being required for all future imports from these countries; the importation of motor vehicles from all countries was brought under import licensing control, there was no general imposition of import licensing in respect of sterling area countries; endeavours were made to expand primary production for export by providing alternative sources of supplies of agricultural fertilizer on a larger scale; and the Murupara pulp and paper project for the production of newsprint and pulp for export was pressed forward.

Except with the approval of the Reserve Bank, trading banks were advised not to sell to any importer during 1952 more than 80 per cent of the 1950 amount sold to him. This amount was the importer's basic allocation, and where foreign exchange in excess of this basic allocation was required application was to be made to the Reserve Bank.

This was followed in August 1952 by a decision to retain the existing exchange allocation scheme, with modifications, in 1953. With the high level of demand for exchange still continuing and the need to maintain reserves to provide a reasonable margin for contingencies in view of the 1953 deficit in overseas receipts over payments, the Reserve Bank was not prepared to draw further on reserves. Accordingly, except with the approval of the Reserve Bank, trading banks were advised not to sell to any importer during the whole of 1953 more than 40 per cent of the amount of exchange sold in 1950 to that importer for non-Government imports other than motor vehicles and goods paid for under Third Party Certificates received from other licensed imports. This procedure provided, as formerly, for the basic allocations of exchange, and where importers required more than this quota they could make application to the Reserve Bank.

In July 1953 the Reserve Bank announced that, because of the high level of demand for overseas exchange to pay for imports, the exchange allocation scheme inaugurated in April 1952 would be continued in 1954. An important modification of the scheme was the announcement of a list of goods payment for which would not require the approval of the exchange allocation. The trading banks were advised that, without the approval of the Reserve Bank and excepting payment for goods classed as "Released Items", they were not to sell to any importer in 1954 more than 50 per cent (increased in November 1953 to 75 per cent) of the exchange sold in 1950 to that importer for non-Government imports other than motor vehicles, goods paid for under Third Party Certificates received, and goods which in 1954 would be classed as "Released Items". This procedure provided, as formerly, for basic allocations of exchange, and where importers required more than this quota they could make application to the Reserve Bank.

From 1 November 1953 the annual allowance to New Zealand citizens visiting the Continent of Europe, excluding Scandinavia, is £100 for adults and £70 for children under twelve years of age. Adult visitors to Scandinavia are allowed up to £250 per annum, and children under twelve years of age £175 per annum.

POST OFFICE SAVINGS BANK.—The establishment of the Post Office Savings Bank was authorized by the Post Office Savings Bank Act 1865, but actual business did not commence until 1 February 1867, when branches were established at Auckland, Wellington, Christchurch, Dunedin, and Hokitika. The present authority is contained in the Post and Telegraph Act 1928.

Deposits may be made in any multiple of 1s., and there is no limit to the amount which may be deposited. Interest is allowed on each complete £1, but no interest is payable on any amount in excess of £5,000. The present interest rates on deposits are per annum—

Amount	Interest Rate
Up to £500	2½ per cent
From £501 to £2,000	2 per cent
From £2,001 to £5,000	1½ per cent

There are now 972 branches of the Bank throughout the country. Of these, 170 are ledger offices providing demand withdrawal facilities, and about 95 per cent of the total withdrawals are made in this manner. The remaining 5 per cent are made by free savings-bank telegram or savings-bank money order, this system providing for country depositors who are unable to personally attend at their ledger office.

The Postmaster-General may pay deposits to a maximum of £200 to the legal representatives of a deceased depositor without requiring him to take out letters of administration or to prove the will. This provision, together with another whereby a depositor may nominate one or more persons to receive part or all of the amount at credit of an account after the depositor's death, enables the next-of-kin to obtain possession of perhaps much-needed funds without delay or cost.

The year ended 31 March 1953 saw the Bank's cash turnover approaching the £200 million mark. Deposits for the year were £99,125,774, and withdrawals £96,699,559, which represents an increase in the value of deposits of £920,131, and in the value of withdrawals of £2,950,741, over the previous year. The number of deposits made was 4,096,790, and the number of withdrawals 2,571,849. The figures for the previous year were 4,153,449 and 2,572,774 respectively. The total number of accounts open increased by 35,543 to reach 1,485,852, and the total amount at credit of depositors' accounts at £191,273,736 was £6,654,523 greater than the previous year. This increase represents excess deposits over withdrawals for the year of £2,426,215, and interest credited to depositors for the year of £4,208,308. The average amount at credit of each account was £129.

Since the family benefit scheme commenced in 1946 the number of beneficiaries who have elected to pay their benefits to Post Office Savings Bank accounts has steadily increased, and during the year ended 31 March 1953 family benefit deposits, valued at £5,140,816, were credited to Post Office Savings Bank accounts.

The following table covering the activities of the Post Office Savings Bank since 1943 includes family benefit deposits, but does not include either school savings bank accounts or national savings investment accounts, which are referred to later.

Year Ended 31 March	Number of Depositors at End of Year	Total Amount of Deposits During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited	Total Amount to Credit of Depositors at End of Year
		£	£	£	£	£
1943	1,086,996	38,097,070	26,889,339	11,207,731	1,816,820	84,469,933
1944	1,128,936	47,648,754	35,580,165	12,068,589	2,075,676	98,614,198
1945	1,161,886	54,585,120	42,158,656	12,426,464	2,451,628	113,492,290
1946	1,203,181	67,861,042	55,626,419	12,234,623	2,787,413	128,514,326
1947	1,239,948	72,380,543	62,747,093	9,633,450	3,094,491	141,242,267
1948	1,277,265	72,553,414	68,660,458	3,892,956	3,307,081	148,442,304
1949	1,311,292	70,690,640	67,722,724	2,967,916	3,438,790	154,849,010
1950 [†]		11,447,754	7,922,846	7,654,908		170,982,452
	1,372,672	77,963,430	73,306,181	4,657,249	3,821,285	
1951	1,407,241	86,395,331	85,190,007	1,205,324	3,915,006	176,102,782
1952	1,450,309	98,205,643	93,748,818	4,456,825	4,079,606	184,639,213
1953	1,485,852	99,125,774	96,699,559	2,426,215	4,208,308	191,273,736

[†] Excludes balances to credit of war gratuity savings-bank accounts in the years quoted of: 1947, £13,616,000; 1948, £12,439,000; 1949, £11,448,000.

* Refer to note below.

NOTE.—Under the War Service Gratuity Regulations 1945 war gratuity savings bank accounts which matured on 31 March 1949 were deemed to be Post Office Savings Bank accounts on that date, and the total balance of the war gratuity accounts was amalgamated with the ordinary savings bank figures as at 31 March 1949. The amount so transferred was £11,447,754, of which £7,654,908, at the option of the holders, was left in the savings bank and £3,792,846 withdrawn. A total of £1,843,071 of the amount withdrawn was deposited in national savings investment accounts. These transactions are shown separately in the above table in italicized form.

The securities standing in the name of the Postmaster-General on account of the Post Office Savings Bank Fund on 31 March 1953 represented a nominal value of £191,127,103. A summary of the investments is as follows:—

	£
New Zealand Government securities	188,658,210
Local authority securities	208,397
Securities held in London	2,560,496
Total	£191,127,103

Letters of Credit.—The letter of credit avoids the necessity of carrying large amounts in cash, and is therefore popular with people travelling, particularly at holiday times. The depositor completes an application for a withdrawal from his account and instead of cash receives a letter of credit, the maximum amount being £50. The letter of credit may be drawn against at any of the 972 branches of the Post Office Savings Bank. The fee payable is 7d. for the first £10 and 3d. for each additional £5 or part thereof.

During the year ended 31 March 1953, 6,146 letters of credit were issued, the value of these being £189,855.

SCHOOL SAVINGS BANK.—The school savings bank scheme was introduced in 1934 with the object of encouraging thrift amongst young people. The aim of the scheme is to promote the habit of regular banking every week so that upon commencing work the depositor will transfer his account to the Post Office Savings Bank and continue his weekly bankings out of his wages or salary.

Each depositor has a pass book, and the lodgment of deposits is made to teachers at the school, the cash and deposits slips being handed in later at the Post Office. Separate accounts for each depositor are held at the savings bank ledger office nearest to the school, and depositors may make withdrawals on demand. Interest is payable at ordinary Post Office Savings Bank rates.

Over the twenty years of operation depositors have banked over £1,500,000 and received £83,041 in interest. During the calendar year 1953 there were 1,210,671 deposits totalling £218,551. Since the inception of the scheme more than 88,000 children have transferred their School Savings Bank Accounts to the Post Office Savings Bank to form the nucleus of adult savings accounts.

A table showing the transactions in school savings bank accounts during the last eleven years is appended.

Year Ended 31 December	Number of Schools Operating at End of Year	Total Number of Deposit Transactions During Year	Total Amount of Deposits During Year	Total Number of Withdrawal Transactions During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited	Total Amount to Credit of Depositors at End of Year
			£		£	£	£	£
1943	1,003	404,281	61,367	10,723	39,109	22,258	2,982	143,094
1944	1,045	454,845	71,505	10,846	46,441	25,064	3,622	171,760
1945	1,089	454,602	74,854	9,809	51,598	23,256	4,237	199,273
1946	1,133	465,150	79,208	10,601	56,330	22,878	4,769	226,920
1947	1,170	490,141	82,057	11,072	65,506	16,551	5,396	248,867
1948	1,193	485,806	84,325	11,876	71,785	12,540	5,804	267,211
1949	1,402	672,489	122,178	10,620	94,099	28,069	6,682	301,962
1950	1,300	793,494	142,314	20,765	100,125	42,189	7,594	351,745
1951	1,395	881,768	168,247	18,341	107,996	60,251	8,862	420,858
1952	1,510	1,026,643	187,224	18,850	123,671	63,553	10,529	494,940
1953	1,625	1,210,671	218,551	21,906	135,375	83,176	12,593	590,709

* Includes amounts transferred to Post Office Savings Bank.

On 31 December 1953 there were 140,536 School Savings Bank accounts open.

TRUSTEE SAVINGS BANKS.—There are five trustee savings banks—viz., Auckland, established in 1847; New Plymouth, 1850; Dunedin, 1864; Invercargill, 1864; and Hokitika, 1866. The total amount to the credit of depositors at 31 March 1953, was £38,853,665, representing an average amount of £104 12s. 3d. Figures for the last eleven years are as follows.

Year Ended 31 March	Number of Depositors at End of Year	Total Amount of Deposits During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited	Total Amount to Credit of Depositors at End of Year
		£	£	£	£	£
1943	296,140	9,127,040	7,341,043	1,785,997	404,294	18,320,249
1944	307,224	11,013,258	8,863,741	2,149,517	443,982	20,913,748
1945	320,372	11,228,424	9,865,183	1,363,241	496,721	22,773,710
1946	329,348	15,954,296	12,054,044	3,900,252	580,106	27,254,068
1947	335,821	17,306,051	14,698,446	2,607,605	678,051	30,539,724
1948	343,149	16,136,822	15,622,395	514,427	723,795	31,777,946
1949	350,353	15,994,130	15,748,223	245,907	746,824	32,770,677
1950	354,879	17,615,746	16,234,280	1,381,466	790,834	34,942,977
1951	359,780	20,720,021	19,609,842	1,110,179	839,485	36,892,641
1952	365,701	22,937,106	22,372,933	564,173	877,235	38,334,049
1953	371,404	22,645,063	23,011,838	-366,775	886,391	38,853,665

* Excess of withdrawals over deposits.

NOTE.—This statement does not include national savings investment accounts.

The following table shows the results of the transactions, exclusive of national savings investment accounts, of each of the trustee savings banks during the twelve months ended 31 March 1953.

Bank	Number of Depositors at End of Year	Total Amount of Deposits During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited	Total Amount to Credit of Depositors at End of Year
		£	£	£	£	£
Auckland	248,634	12,815,326	13,023,448	-208,122	557,329	24,220,931
New Plymouth	26,455	1,462,237	1,459,711	2,526	71,014	3,049,345
Hokitika	3,012	113,635	126,159	-12,524	10,325	442,787
Dunedin	56,085	2,724,740	2,911,875	-187,135	136,704	5,718,374
Invercargill	37,218	5,529,125	5,490,645	38,480	111,019	5,422,228
Totals	371,404	22,645,063	23,011,838	-366,775	886,391	38,853,665

* Excess of withdrawals over deposits.

Following is a summary of trustee savings banks' assets at 31 March 1953. The total assets include an amount of £7,713,954 securing National Savings depositors, invested chiefly in Government securities.

Bank	Mortgages	New Zealand Government Securities	Local Authority Debentures	Cash in Hand and at Banks	Total (Including Other Assets)
	£	£	£	£	£
Auckland	5,272,281	21,223,864	1,535,349	1,751,299	30,163,358
New Plymouth	1,254,599	2,807,018	158,008	179,897	4,584,985
Hokitika	254,957	181,771	15,056	41,759	498,610
Dunedin	2,230,036	4,723,071	540,425	155,723	7,940,582
Invercargill	1,098,755	3,204,505	1,179,396	218,386	6,008,572
Totals	10,110,628	32,140,229	3,428,234	2,347,064	49,196,107

The Trustee Savings Banks Act 1948 consolidated all previous legislation dealing with trustee savings banks.

NATIONAL SAVINGS.—The National Savings Act 1940 made provision for the issue of savings bonds, in denominations of £1, £10, and £100, and the opening of special savings accounts with the Post Office and the Auckland, New Plymouth, Dunedin, and Invercargill trustee savings banks. Investments are for a term of five years in the case of bonds, while moneys deposited in savings accounts are repayable according to the investment period, although the Act makes provision for the withdrawal of moneys before the due date of repayment on the grounds of hardship, emergency, etc. All amounts lodged prior to 30 June 1943 were repayable on 30 June 1945; amounts invested between 30 June 1943 and 30 June 1944 on 30 June 1946; and likewise for later years. These investments bear interest at the rate of 3 per cent per annum, but National Savings Bonds purchased on or after 1 September 1953 bear interest at the rate of 3½ per cent per annum. The Finance Act 1952 increased from £1,000 to £2,000 the amount that may be deposited in a National Savings Account in any year ending 30 June.

The following table gives particulars of deposits, withdrawals, etc., in regard to national savings accounts from the inception of the scheme to 31 March 1953.

Year Ended 31 March	Deposits	Withdrawals	Interest to 30 June, Previous Year	Amount to Credit of Depositors
	£	£	£	£
1941*	718,077	460		717,617
1942	2,476,207	9,448	10,063	3,194,439
1943	2,425,236	25,255	71,875	5,666,063
1944	7,257,538	63,815	156,475	13,010,261
1945	7,267,398	178,445	357,733	20,456,947
1946	7,607,413	1,706,754	559,775	26,917,381
1947	6,175,368	2,306,164	773,260	31,559,845
1948	7,285,423	3,680,540	905,439	36,070,257
1949	7,032,119	3,943,079	1,037,921	40,197,218
1950	10,576,707	4,281,588	1,178,810	47,671,147
1951	9,468,602	5,311,371	1,385,699	53,214,077
1952	10,973,760	6,511,400	1,541,632	59,218,609
1953	10,419,343	8,426,549	1,719,575	62,930,438
Totals	89,683,159	36,444,778	9,692,057	

* Six months only.

The next table gives particulars of national savings bonds sold and redeemed during the same period.

Year Ended 31 March	Value of Bonds Sold	Value of Bonds Redeemed	Year Ended 31 March	Value of Bonds Sold	Value of Bonds Redeemed
	£	£		£	£
1941*	611,709	1948	492,697	2,936,265	
1942	2,786,299	1949	434,687	3,169,870	
1943	1,356,301	1950	457,767	2,420,800	
1944	3,121,859	1951	499,222	1,643,899	
1945	2,609,105	1952	536,582	618,900	
1946	1,313,723	520,596	1953	219,005	711,785
1947	457,041	2,089,396	Totals	14,895,997	14,111,511

* Six months only.

COMPANY, ETC., DEPOSITS.—Statistics of deposits with building and investment societies and trading companies were compiled from returns furnished to the Treasury up to 31 March 1947. The requirement to furnish returns was abolished by the Finance Act 1951.

SUMMARY OF BANK DEPOSITS.—In the preceding paragraphs statistics of deposits with various classes of banking institutions are shown. It is of interest to show the position in summary form in respect of all classes of deposits (other than Government deposits and trading bank deposits with the Reserve Bank).

	As at 31 March 1953 £
Deposits with Reserve Bank (excluding Government and trading-bank deposits)	1,103,276
Deposits with trading banks (excluding Government)	255,786,625*
Deposits with Post Office Savings Bank	191,273,736
Deposits with school savings bank	485,448
Deposits with trustee savings banks	38,853,665
Deposits in national savings accounts	62,930,438
Total	£550,403,188
Per head of population	£270 2s. 7d.

* Includes £24,061,268 wool retention moneys.

The above deposits are bank deposits only. It should be noted also that other classes of deposits exist—e.g., the Common Fund of the Public Trust Office, deposits with building and investment societies, and with trading companies.

VOLUME OF MONEY IN CIRCULATION.—The following information, which has been published by the Reserve Bank of New Zealand, sets out in detail the changes that have occurred in the amount of money in circulation in the form of coin, notes, and demand deposits of the Reserve Bank and of the trading banks. The first table shows the volume of such money as at the last balance day in January of each of the years 1946–54, the figures quoted being in (£N.Z.) millions.

—	1946	1947	1948	1949	1950	1951	1952	1953	1954
	£(m)	£(m)	£(m)	£(m)	£(m)	£(m)	£(m)	£(m)	£(m)
Coin (estimated)	2.9	3.0	3.3	3.1	3.3	3.5	3.6	3.7	4.0
Notes held by public	36.9	39.7	40.9	40.9	44.5	47.4	50.3	52.8	56.4
Demand deposits at—									
Reserve Bank ¹	20.2	15.8	13.5	9.6	9.2	18.3	12.6	8.9	11.7
Trading banks ²	112.0	126.1	134.5	147.4	163.1	194.7	195.1	195.2	229.2
Totals	172.0	184.6	192.1	201.0	220.0	263.9	261.6	260.7	301.3
Change during year	+32.4	+12.6	+7.5	+8.9	+19.0	+43.8	-2.3	-0.9	+40.7

The cumulative effect, of the changes in the volume of money during the last fourteen years is contained in the following summary.

—	1939–46 (Seven Years)	1946–54 (Eight Years)
	£(m)	£(m)
Coin (estimated)	+1.5	+1.1
Notes held by public	+26.0	+19.5
Demand deposits at—Reserve Bank ¹	+17.3	-8.5
Trading Banks ²	+75.8	+117.2
Totals	+120.6	+129.3

* Government and other demand deposits at Reserve Bank, excluding trading banks' balances at Reserve Bank.

† Trading banks' total demand liabilities in New Zealand.

The next table shows the changes in the volume of money that occurred during the period.

—	Cumulative Movement, 1939–46 (Seven Years)		Cumulative Movement, 1946–54 (Eight Years)	Movement During Each of Last Three Years	
	1951–52	1952–53		1953–54	
	£(m)	£(m)	£(m)	£(m)	£(m)
Overseas transactions ¹	+83.3	+36.0 ²	-12.5	+1.5	+27.4
Bank credit—					
Reserve Bank—					
Advances in New Zealand	+23.2	+20.7	-8.2	+5.6	-2.8
Investments in New Zealand	+5.0	+5.4	-12.0	+14.0	-2.8
Trading banks—					
Advances and discounts	-4.5	+84.0	+46.6	-24.0	+0.5
Investments in New Zealand	+19 ³ .8	-9.2	-0.2	-0.3	+7.5
Shift from time to demand liabilities of trading banks ³	-3.5	-1.5	+0.4	+2.3	+2.3
Shift into wool retention accounts	-19.9	-20.1	+6.2	+5.7	+5.7
Other items	-2.7	+13.8	+3.7	-6.3	+2.9
Change during period	+120.6	+129.3	-2.3	-0.9	+40.7

* As shown by changes in the Reserve Bank's sterling exchange plus overseas investments and trading banks' assets overseas in respect of New Zealand business, less overseas liabilities.

† Minus sign indicates shift from demand to time liabilities.

‡ Apart from the amount of £600,000 paid in cash by the Government to the Reserve Bank, the adjustments consequent on the exchange rate appreciation neither increased nor decreased the amount of money in circulation in New Zealand in the form of coin, notes, and bank demand deposits, and are therefore not included in the table.

OVERDRAFT AND DISCOUNT RATES.—The trading banks' minimum overdraft rates and rates of discount, which had for many years been at 6½ or 7 per cent, were reduced to 6 per cent as from 1 September 1932. This was followed by further reductions to 5 per cent from 1 May 1933, to 4½ per cent from 30 November 1934, and to 4 per cent from 1 August 1941.

The Reserve Bank's minimum discount or rediscount rate for New Zealand bills was originally 4 per cent, but was reduced to 3½ per cent from 29 July 1935, to 2½ per cent from 2 March 1936, and to 2 per cent from 29 June 1936. The rate was restored to the original 4 per cent on 19 November 1938, but was reduced to 3 per cent from 6 September 1939, to 2 per cent from 27 May 1940, and to 1½ per cent from 26 July 1941. The rate was increased, however, to 3½ per cent from 12 April 1954.

DEPOSIT AND INTEREST RATES: Trading Banks.—The following is a schedule (since June 1912) of the rates paid by the Associated Banks in New Zealand for moneys lodged on fixed deposits.

Date Operative From	Three Months and Under Six Months		Six Months and Under Twelve Months		Twelve Months and Under Twenty-four Months		Twenty-four Months and Upwards	
	Per Cent		Per Cent		Per Cent		Per Cent	
1 June 1912	2		2		3½		4	
20 January 1921	3		3½		4		4½	
20 June 1921	3½		3½		4		4½	
11 December 1926	3½		3½		4		4½	
9 May 1927	3½		4		4½		5	
9 July 1928	3½		3½		4		4½	
1 February 1930	3½		3½		4½		5	

Date Operative From	Three Months and Under Six Months	Six Months and Under Twelve Months	Twelve Months and Under Twenty-four Months	Twenty-four Months and Upwards
22 April 1930		3½	4	4½
1 August 1931		3½	3½	4
1 June 1932		3	3½	4
2 December 1932		2½	2½	3½
11 July 1933		2	2½	3
5 July 1934		1½	2	2½
2 November 1934		1½	1½	2½
18 September 1940		¾	1½	2½
17 July 1941		¾	1½	2

Post Office Savings Bank.—Following is a statement of the interest rates payable in respect of Post Office Savings Bank deposits since 1914.

Date Operative From	Amount of Deposit					
	£1-£300	£301-£500	£501-£1,000	£1,001-£2,000	£2,001-£5,000	
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	
1 January 1914 ^a	5	4	4	Nil.	Nil.	
1 January 1921	4	4	3½	3½	3½	
1 April 1928	4	4	3½	3½	3½	†
1 August 1931	3½	3½	3½	3½	3½	†
1 April 1933	3	3	3	3	3	†
1 August 1933	3	3	3	2½	2½	†
1 August 1934	3	3	2½	2½	2½	†
1 March 1935	3	3	2½	2½	2½	Nil.
1 August 1941	3	3	2	2	2	Nil.
1 June 1942	2½	2½	2	2	2	Nil.
1 September 1952	2½	2½	2	2	1½	

* Rate in existence on 1 January 1914.

† See paragraph following.

Prior to 1 January 1914 the maximum deposit in the Post Office Savings Bank on which interest was payable was £600; but on that date the maximum was raised to £1,000. Between 1 January 1921 and 1 April 1928 interest was allowed on deposits up to a maximum of £5,000, but from the latter date the maximum deposit on which any interest was payable was £2,000. In respect of deposits lodged prior to 1 April 1928, however, interest at 3½ per cent on the excess over £500 was still allowed up to a maximum deposit of £5,000. The rate on the amount between £500 and £5,000 was reduced to 3 per cent from 1 April 1933, on the amount exceeding £1,000 to 2½ per cent from 1 August 1933, and on the excess over £500 to 2½ per cent from 1 August 1934, and to 2 per cent from 1 August 1941. From 1 March 1935 to 31 August 1952 interest was not payable in respect of the excess above £2,000 in any account, but from 1 September 1952 interest at the rate of 1½ per cent was made payable on amounts over £2,000 to £5,000.

Trustee Savings Banks.—Under the provisions of the Savings Banks Act 1908, which applied to trustee savings banks only, these banks were required to pay interest at the rate of 5 per cent on deposits of £1 and upwards, but not on fractions of £1 or on amounts of under £1. The maximum amount of deposits on which interest was to be paid was fixed at £100 for each depositor; but by the Finance Act 1921–22 the maximum was raised to £200. It remained at this figure until 1 July 1945, when it was raised to £500. The banks were empowered to reduce the rate of interest, with the consent of the Governor-General, after three months' notice given by an advertisement published in the Gazette. These provisions were continued by the Trustee Savings Banks Act 1948, which repealed the Savings Banks Act 1908.

In the National Expenditure Adjustment Act 1932 provision was made for the fixation by the Governor-General in Council of the maximum rates of interest payable by trustees of savings banks. Ruling rates immediately prior to July 1932 varied between 4 per cent and 4½ per cent; but, by Order in Council, the maximum interest payable was reduced to 3½ per cent as from 1 July 1932, and to 3 per cent as from 1 April 1933. A further reduction to 2½ per cent was made as from 1 June 1942. The 1948 legislation, which replaced the above authority, gave power to the Governor-General to fix from time to time the rates of interest to be paid on deposits, and also provided that different rates may be fixed with respect to different classes of deposits.

Company, etc., Deposits.—Authority was taken in the National Expenditure Adjustment Act 1932 to fix by Order in Council the maximum rates of interest payable on deposits with stock and station agents, trading companies, and building and investment societies. Changes made in the maximum rates of interest since 1932 are given on page 529 of the 1947–49 Year-Book. The maximum rates from 18 December 1952 for stock and station agencies and trading companies range from 1½ per cent at call and under three months to 3½ per cent for four years and over, and for building and investment societies from 20 November 1952 from 1½ per cent at call and under three months to 3½ per cent for four years and over; the latter range was extended from 29 April 1954 to 3½ per cent for deposits for not less than five years, and 4 per cent for not less than seven years. For the savings department of the latter class the rate is 2½ per cent.

Other Deposit and Interest Rates.—It is of service at this stage to mention briefly the interest rates payable in respect of certain other classes of deposits. The highest rate of interest payable on moneys in the Common Fund of the Public Trust Office (see Section 44) was fixed at 3½ per cent from 1 July 1953, previous reductions having been made from 5½ per cent in 1928 to 4½ per cent in 1931, to 4 per cent in 1932, to 3½ per cent in 1933, to 3¼ per cent in 1945, and to 3 per cent in 1949.

Local authorities may also accept deposits (in practice, only for short periods). The present maximum rates of interest (as from 17 July 1941) on such deposits, as fixed by Order in Council are: call and under three months, 1 per cent; three and under six months, 1¼ per cent; six months and over, 1½ per cent.

References to rates of interest on mortgages will be found in Section 33A (Mortgages), while interest on Government debt is referred to in Section 30C (State Indebtedness), and interest on local-authority debt in Section 31 (Local Government).

COINAGE AND CURRENCY: New Zealand Coin.—Section 8 of the Finance Act (No. 2) 1932–33 authorized the Minister of Finance to arrange with the Master of the Royal Mint (in England) for a special issue of silver and bronze coinage of distinctive design for use in New Zealand. Any coins minted in accordance with this arrangement would conform to the standard Mint requirements of weight, fineness, etc., and were given status as legal tender in New Zealand.

The Coinage Act 1933, which came into operation on 1 December 1933, repealed section 8 of the Finance Act (No. 2) 1932–33 and made necessary provisions in respect of silver and of bronze or cupro-nickel coins. The Act contains no provision for the issue of New Zealand gold coins. Section 5 (4) of the Act authorized Proclamations declaring that British coins (other than gold coins) should not be legal tender in New Zealand, and a Proclamation was issued declaring British silver coins not legal tender in New Zealand on and after 1 February 1935.

Arrangements were made under which the Royal Mint agreed to remit free of charge the Imperial and Australian silver coin circulating in New Zealand, replacing it with the New Zealand coin referred to above, and to allow the New Zealand Government the bullion value of the coin not used in making such replacement.

The profit accruing to the New Zealand Government from the recoinage on this basis arises from the fact that the Australian coinage and a proportion of the British coinage then in circulation in New Zealand contained a larger proportion of silver than the new coin under the standard set out in the Schedule to the Coinage Act 1933, which was also the standard governing the production of Imperial silver coin. In addition, the Commonwealth Government agreed to the repatriation at face value of a proportion of Australian coin circulating in New Zealand.

Up to 31 March 1953 New Zealand coins have been received from the Mint of a total face value of £8,049,178. Statistics of the face values of the various denominations of coin received to 31 March 1953, and the value of New Zealand silver coin in circulation at 31 March 1953, are as follows.

	Total Received	In Circulation
	£	£
Crown	59,005	49,999
Half-crown	2,570,100	1,021,212
Florin	2,639,500	1,000,055
Shilling	930,000	563,985
Sixpence	719,500	501,996
Threepence	816,975	644,530
Penny	251,350	-
Halfpenny	60,930	-

* Not available.

Expenses of the Silver and Bronze Coin Account totalled £82,759 for the year ended 31 March 1953, at which date there was a credit balance of £4,507,211 in the account.

New Zealand silver coinage first came into circulation in 1933, and New Zealand bronze coins were first released for circulation in December 1939.

Restrictions on Import and Export of Currency.—The Customs Import Prohibition Order now prohibits the importation of all coin (other than silver coin which is over one hundred years old) of whatever metal and wherever and whenever minted, and whether or not it is legal currency in New Zealand or elsewhere. Persons arriving in New Zealand are permitted to have with them on arrival silver coin not exceeding £2 in value. The importation of bank notes of the Bank of England, and of bank notes issued by banks in Scotland and Northern Ireland, is prohibited. Persons arriving either directly or indirectly from the United Kingdom are prohibited from bringing with them, in the same ship or aircraft in which they arrive, the following items: gold bullion, money, including bank notes and other currency (other than silver coin not exceeding £2 in value) and postal notes and money orders of New Zealand or of any other country, and including also promissory notes and bills of exchange; securities for money, including bonds, debentures, debenture stock, and Treasury bills, and including scrip or certificates for and documents representing shares, debenture stock, and other stock, and also all other securities for money. The items enumerated are exclusive of promissory notes, cheques, drafts, and other bills of exchange, for sums expressed in sterling currency of the United Kingdom.

The Customs Export Prohibition Order prohibits the exportation of all coin (other than silver coin which is more than one hundred years old) of whatever metal and wherever and whenever minted and whether or not it is legal currency in New Zealand or elsewhere. Persons leaving New Zealand are permitted to take silver coin not exceeding £2; or, if the journey is by direct route (without transhipment) to Great Britain or Ireland, silver coin to the value of £5 may be taken. In addition to the above, the Finance Emergency Regulations 1940 prohibited the taking or sending of any money out of New Zealand except with the consent of the Minister or except in the case of certain transactions especially exempted.

In the cases of both the Export and the Import Prohibition Orders power is vested in the Minister to authorize in writing the variation of the provisions mentioned. Prohibitions mentioned in both Orders have effect in addition to, and not in substitution for, any other prohibition in force relating or applicable to the importation or exportation of any of the items enumerated in the Orders or in any other enactment.

Legal Tender and Issue of Notes.—The Coinage Act 1933 provides that a tender or payment of money, if made in New Zealand coins of current weight, shall be a legal tender to the following extent:

- Gold, to any amount.
- Silver and cupro-nickel for amounts not exceeding £2.
- Bronze for amounts not exceeding 1s.

The position in respect of the bank-note issue in New Zealand was radically altered by the Reserve Bank of New Zealand Act 1933. Section 15 enacted that on and after a date fixed by Proclamation—the Proclamation was signed on 26 January 1934 and fixed the date as 1 August 1934—the Reserve Bank had the sole right to issue bank notes in New Zealand; and thereupon the authority of every other bank to issue or re-issue bank notes was terminated, and such banks were required to redeem their outstanding notes in Reserve Bank notes or subsidiary coin to the extent to which the latter was legal tender. On 1 August 1936 every other bank carrying on business in New Zealand was required to pay over to the Reserve Bank an amount equal to the value of its then outstanding notes issued or payable in New Zealand, and its liability in respect of such notes to the holders (approximately £53,570 in 1935) was assumed by the Reserve Bank. Bank notes not presented for payment within forty years, commencing 1 April after date of issue in the case of Reserve Bank notes, or after assumption of liability (as above) in other cases, are deemed not to be in circulation, and an amount equal to the value thereof must be paid into the Consolidated Fund as if unclaimed moneys. The Unclaimed Moneys Act 1908 provides for the payment to the rightful owner of any moneys paid into the Consolidated Fund under the provisions of the Act.

Reserve Bank notes are constituted legal tender up to any amount. There is a provision in the existing legislation which requires the Bank, on presentation at its head office in Wellington of notes to any amount not less than £1,000, to give in exchange sterling for immediate delivery in London. This requirement may be suspended at the discretion of the Minister of Finance, and actually has been suspended since December 1938. On similar presentation of gold or of sterling for immediate delivery in London, in either case to an amount of £1,000 or more, the Bank must give its notes in exchange therefor. The rate of exchange for the above transactions is fixed by the Bank.

The principal Act required the Bank to maintain a minimum reserve of not less than 25 per cent of the aggregate amount of its notes in circulation and other demand liabilities; but the Reserve Bank of New Zealand Amendment Act 1939 empowered the Minister of Finance to vary or suspend this requirement. Both of these provisions were repealed by the Reserve Bank Amendment Act 1950, and the following provision substituted: "It shall be the duty of the Bank to maintain reserves which, in the opinion of the Board of Directors, will provide a reasonable margin for contingencies, after taking into account prospective receipts and disbursements of overseas funds, and having regard to the economic position within New Zealand." The definition of the term "reserve" has been amended and now includes—

- gold coin and bullion in the unrestricted ownership of the Bank;
- sterling exchange, comprising (1) deposits at the Bank of England, (2) British Treasury bills of not more than three months unexpired currency, (3) bills of exchange bearing at least two good signatures and of not more than three months unexpired currency;
- net gold exchange, as defined in section 17 (c) of the Act of 1933;
- Other exchange—i.e., balances standing to the credit of the Bank at the central bank of any country the currency of which is freely convertible into sterling.

For the purpose of ascertaining the net reserve the amount of the Bank's liabilities in currencies other than New Zealand is deducted from the total of the "reserve."

The gold coin and bullion holdings of the Reserve Bank are shown in the Bank's books at cost value to the bank. The amending legislation of 1939 permits the Minister of Finance to make a revaluation up to the market value of the fine gold contained in the reserve, the premium resulting from such revaluation to be credited to a special reserve to be held on behalf of the Crown. This special reserve is to be used in such manner as the Minister of Finance may from time to time determine; but up to the present no such revaluation has been made.

The Reserve Bank may not issue bank notes of a less denomination than 10s., except with the authority of the Governor-General in Council. The present issue of notes consists of the following denominations: 10s., £1, £5, £10, and £50.

Notes are issued solely in response to the demands of the public. In assessing likely requirements there are seasonal factors to be considered, as well as basic economic conditions, such as national income, the levels of salaries and wages, changes in price levels generally, and in the total volume of money. In addition, methods and frequency of payments affect the amount to be issued.

Currency other than Legal Tender.—Neither Australian nor other overseas paper money circulates in New Zealand, presumably on account of the exchange fee charged by the banks on receiving it.

No consideration of the amount of credit currency in use at any moment can overlook the very large proportion of payments made by cheque, mainly upon the trading banks, but also upon trustee savings banks and upon various stock and station agencies which act in this respect for their customers in the capacity of banker. Such cheques usually go direct from the payee to the collecting bank, but occasionally they pass from hand to hand.

Government notes (issued in thirty-nine denominations of from 1s. to £1) sometimes enjoy a certain length of life in the form of currency.

EXCHANGE RATES.—Although the movement of gold, whether internally or externally, was unrestricted in years prior to the First World War, certain of the conditions usually considered essential in the full operation of the gold standard were never effective in New Zealand. More correctly, New Zealand was, and still is, upon a sterling-exchange standard. The explanation is that the New Zealand banking system is not self-contained, in that the banks normally hold a large amount of funds in London. In fact, these London balances are the real regulative factor and the key to the whole New Zealand banking system. The inter-relation between these balances and import control and exchange control is of interest in this respect.

While New Zealand currency was at parity with sterling, except for minor fluctuations above or below parity, no necessity existed for distinction between sterling and New Zealand currency. The latter is entitled to be considered as one of the sterling currencies; but, adopting the convenience of a grouping usage, sterling is used herein to refer solely to the currency of Great Britain.

The unusual significance of the exchange rate in the case of New Zealand depends chiefly upon the country's position in regard to overseas trade and to overseas borrowings. The course of development of New Zealand has not reached a stage where the country is fully self-contained, and the external trade *per caput* is greater than that of almost all, if not all, other countries. Most of this external trade is with the United Kingdom, while the function of London as an international clearing

house is also of importance in this connection. New Zealand's borrowings from the London financial market have also been, until comparatively recently, upon a high scale, requiring, as noted elsewhere (see State and also Local Authority Indebtedness), considerable annual payments in London.

The regulation of currency exchange is a function of the Reserve Bank, as noted previously. The Finance Act 1934 provides that any appreciation or depreciation of the assets of the Reserve Bank (expressed in the currency of New Zealand) owing to any alteration that may subsequently be made in the exchange rate, while the value of the local currency is not fixed by statute in terms of sterling, shall be credited to or be borne by the Consolidated Fund. In this respect, as already noted, the Consolidated Fund bore those losses incurred as a result of the 1948 adjustment of the exchange rate.

New Zealand and Sterling Exchange.—The relationship of New Zealand currency to sterling has assumed added significance since December 1929. Prior to that date the New Zealand currency was at virtual parity with British currency, only slight deviations occurring from time to time, but then commenced to depreciate gradually, reaching, in January of 1931, a level of approximately £110 New Zealand = £100 London for telegraphic transfers. At that level it remained fairly stationary until January 1933, when as a result of Government intervention it was abruptly depreciated to a further degree. The relationship existing from 20 January 1933 until the establishment of the Reserve Bank of New Zealand on 1 August 1934 was £125 (selling) and £124 10s. (buying) New-Zealand = £100 London for telegraphic transfers.

From 1 August 1934 Reserve Bank quotations for £100 sterling for immediate delivery in London were: buying rate, £124; selling rate, £125. It was intimated that the policy of the Bank would aim at retaining these rates unchanged for a long period unless there occurred marked changes in existing conditions. While prepared to fulfil its statutory obligations, the Reserve Bank did not desire to compete for exchange business, provided adequate facilities were available elsewhere.

Following the statement of the Reserve Bank's policy, the trading banks adopted as from 1 August 1934 a scale of rates representing a reduction of 10s. per £100 on the rates ruling from 20 January 1933 to 31 July 1934. The rates were slightly changed on 21 October 1938, and further changes were made in the selling rate as from 6 November 1940. During the year 1945–46 the Reserve Bank agreed to certain alterations in the trading banks' on-demand and usance rates. The effect of this alteration was to bring into alignment the on-demand and telegraphic transfer rates. This was considered appropriate because of the inauguration of fast air-mail facilities replacing, as from 31 July 1945, the airgraph service previously used. The improvement in the mail services and the consequent reduction in the transit time between New Zealand and London enabled the trading banks to quote more favourable on-demand and usance buying rates to the public.

The position was very materially altered as from 20 August 1948, following on the announcement by the Government on the previous night of the appreciation of New Zealand currency to parity with sterling. The Reserve Bank quotations from 20 August 1948 for £100 sterling for immediate delivery in London were: buying rate, £100; selling rate, £101. Consequential adjustments to the scale of rates of trading banks in New Zealand were also made. The quotations current for New Zealand on London at end of February 1954 are given in the following table.

Category	Buying (on Basis of £(Stg.)100)	Selling (on Basis of £(Stg.)100)
Telegraphic transfers (cable)	£(N.Z.)100 7s. 6d.	£(N.Z.)101
Sterling notes	£(N.Z.) 97 17s. 3d.	£(N.Z.)101

Category	Buying (on Basis of £(Stg.)100)	Selling (on Basis of £(Stg.)100)
Bills, cheques, and drafts payable on demand	<i>Air Mail</i> <i>Sea Mail</i>	<i>Air and Sea Mail</i>
	£(N.Z.)99 19s. 6d.	£(N.Z.)99 12s. 3d.
Bills or drafts 3 days sight	£(N.Z.)99 18s. 6d.	£(N.Z.)99 11s. 3d.
Bills or drafts 30 days sight	£(N.Z.)99 12s. 3d.	£(N.Z.)99 5s. 0d.
Bills or drafts 60 days sight	£(N.Z.)99 6s. 6d.	£(N.Z.)98 19s. 3d.
Bills or drafts 90 days sight	£(N.Z.)99 0s. 9d.	£(N.Z.)98 13s. 6d.
Bills or drafts 120 days sight	£(N.Z.)98 15s. 0d.	£(N.Z.)98 7s. 9d.
		No quotation

On the occasion of the devaluation of sterling in terms of gold and the United States of America dollar in September 1949 it was decided that New Zealand should maintain the value of its currency at parity with sterling.

As most of the export credits in normal times is advisable to note that the full exchange rate is not operative in respect of dutiable goods. This arises from the fact that, although Customs duties are assessed in sterling, payment of Customs duties is accepted in New Zealand currency without addition of exchange.

New Zealand and Exchange Rates with Other Currencies.—The change in the sterling-dollar parity was followed by a change in the dollar value of a large number of currencies. Some countries maintained the sterling value of their currencies, others maintained the dollar value, and others again altered the exchange value of their currencies in relation to both sterling and the United States of America dollar. In the latter cases there was a consequent alteration in the rate at which New Zealand currency was exchangeable for the currency of the country concerned.

The following table shows exchange rates (since 17 December 1951 the exchange rates have been free to fluctuate within certain limits) for telegraphic transfers quoted by the New Zealand trading banks for various currencies.

New Zealand on	As at 28 February 1953		As at 26 February 1954	
	Buying	Selling	Buying	Selling
United States of America (dollars per £(N.Z.))	2.8151	2.7825	2.8088	2.7770
Canada (dollars per £(N.Z.))	2.7702	2.7343	2.7065	2.6715
France (francs per £(N.Z.))	994.80	967.23	989	961
Belgium (francs per £(N.Z.))	142.24	137.75	141.66	137.17
Switzerland (francs per £(N.Z.))	12.20	11.95	12.22	11.97
Pakistan (N.Z. pence per rupee)	25.75	26.39	25.75	26.39

The rates applicable for telegraphic transfer to Australia in February 1954 were £(A)124 10s. 9d. buying and £(A)124 selling per £(N.Z.)100.

FINANCE EMERGENCY REGULATIONS AFFECTING BANKING AND CURRENCY.—

The Finance Emergency Regulations (No. 2) 1940 of 18 June 1940 took the place of earlier regulations gazetted on 10 April 1940, but they were also more comprehensive. Amendments to the regulations were issued in 1940, 1945, 1946, 1947, 1948, and 1950. The regulations, reprinted in 1953, closely resembled similar legislation passed in the United Kingdom shortly before the New Zealand measures came into force. The regulations prohibited the export of money and securities from New Zealand except with the consent of the Minister of Finance, and required that foreign currency belonging to any New Zealand resident be offered for sale to the Reserve Bank of New Zealand. From August 1948, by the Gold Acquisition Notice issued under the regulations, gold coin and bullion belonging to a New Zealand resident were to be offered for sale to the Reserve Bank. This formal offer must still be made, although from 16 August 1952 New Zealand gold producers or their agents holding gold-dealers' licences were permitted to sell gold overseas on the open market, provided the full proceeds were received by the New Zealand banking system in United States of America dollars, at not less than 83½ per fine ounce, and that export formalities had been complied with. Such gold dealers may purchase gold from producers for sale either in New Zealand or overseas on their own account, the Reserve Bank no longer selling gold for local use.

Under the regulations owners of foreign securities were prohibited from dealing with their securities in any way and were obliged to register them with the Reserve Bank within a specified period. A Reserve Bank statement of 30 July 1940 somewhat eased these restrictions by permitting New Zealand residents to deal in overseas securities on the New Zealand register without the prior consent of the Reserve Bank, subject to the companies concerned agreeing to fulfil certain requirements as to returns, etc. As regards overseas securities held by New Zealand residents but registered outside New Zealand, the selling broker was required to obtain the prior consent of the Reserve Bank. Permission to deal in both these classes of overseas securities was subject to the further condition that a form recording the transaction was to be completed by both the selling broker and the buying broker and supplied to the Reserve Bank. Sales of overseas securities to other than New Zealand residents required the special permission of the Reserve Bank, and in all such cases the proceeds received overseas were to be remitted to New Zealand. The change from one form of overseas investment to another in an Australian market was not permitted.

The regulations empowered the Minister to take over any overseas securities for the purpose of strengthening the financial position of New Zealand, at a price not less than the market value at the time of the transfer. The price payable for securities or currency acquired could be in cash, in New Zealand Government stock, or in a combination of both, according to the discretion of the Minister. For gold coin or bullion taken over the vendor had the option of any of these methods of payment.

The regulations were considerably amended as from 9 March 1950, and the present position may be summarized as follows. Every person ordinarily resident in New Zealand who holds or acquires any non-sterling currency or a right to receive non-sterling currency is required to offer it for sale or a bank in New Zealand. This rule applies to bank notes or other currency, postal notes, promissory notes, and free bank deposits. Any such non-sterling currency not actually sold to a bank has to be reported to the Reserve Bank and offered for sale. Fixed deposits have to be reported to the Reserve Bank but not offered for sale. Any non-sterling currency or fixed deposit to which the regulations apply must not be disposed of (other than by way of repatriation through a New Zealand bank) except with the permission of the Reserve Bank. Prior to 9 March 1950 this provision applied also to sterling-area currencies. Now "invisible" receipts and private holdings of sterling area currency are free from control.

The regulations also provide that non-sterling securities owned by persons ordinarily resident in New Zealand are to be declared to the Reserve Bank by their owners, and are not to be sold or transferred without the prior consent of the Reserve Bank. Prior to 9 March 1950 this applied also to sterling-area securities, but these are now free from control.

It should be noted that the proceeds from the sale of exports under licence must still be sold to a bank in New Zealand. Information concerning import and export control is contained in Section 10A. It is also an offence to engage in transactions involving the conversion of New Zealand currency into the currency of any other country at other than the official rate of exchange.

Certain data in respect of overseas funds held privately by New Zealand persons at 1 November 1949 and totalling £(N.Z.)39,222,000 were given on page 699 of the 1951–52 issue of the Year-Book.

Further sections of the original regulations, although some do not directly affect banking and currency, empowered the Minister to require contributions to war loans; prohibited, without his consent, the formation of companies, building societies, etc., or the increase of capital of existing companies; regulated the issue of capital other than by a local authority; and empowered the Minister, as he deemed necessary in the public interest, to control advances for industrial purposes.

Amending regulations issued on 22 May 1946 provided that the consent of the Minister is not required for the formation of a company where the nominal capital does not exceed £10,000, or for an increase of capital of an existing company where the amount of the increase, together with the amounts of all other increases made within one year before that increase, does not exceed £10,000.

Chapter 33. SECTION 33—INVESTMENT AND FINANCE

Table of Contents

[33 A—MORTGAGES](#)

[33 B—STATE ADVANCES](#)

[33 C—BUILDING SOCIETIES](#)

[33 D—JOINT STOCK COMPANIES](#)

33 A—MORTGAGES

MORTGAGE LAW.—Under the Property Law Act a "mortgage" is defined as including a charge on any property for securing money or money's worth; and "mortgage money" means money or money's worth secured by a mortgage. Under the Land Transfer Act "mortgage" means and includes any charge on land created under the provisions of that Act for securing—

The repayment of a loan or satisfaction of an existing debt;

The repayment of future advances, or payment or satisfaction of any future or unascertained debt or liability, contingent or otherwise;

The payment to the holders for the time being of any bonds, debentures, promissory notes, or other securities, negotiable or otherwise, made or issued by the mortgagor before or after the creation of such charge;

The payment to any person or persons by yearly or periodical payments or otherwise of an annuity, rent-charge, or sum of money other than a debt.

Where the ownership of land is registered under the Land Transfer Act (as, see Section 18A, the great majority of land titles now are) mortgages on that land are granted by virtue of the provisions of that Act; they take effect as securities and do not operate as transfers of the estate or interest charged. In the case of the other land or property a mortgage is granted under what is known as the deeds or deeds-registration system; the mortgage in this instance operating as a conveyance or assignment of the land or property mortgaged, for the mortgagee becomes the registered proprietor of the land, subject to the right of the mortgagor to have the property re-registered in his name on the discharge of his obligations under the mortgage. Although in form a mortgage under the deeds system is a conveyance, in equity it is treated as merely a charge on the land.

Property That May be Mortgaged.—Any land covered by the definitions of "land" in the Property Law Act 1952 and the Land Transfer Act 1952 may be mortgaged. Where, however, property is subject to restrictions upon alienation, these restrictions usually apply to prevent such property being mortgaged. The following are the main instances in which mortgage of property is forbidden by law:

Family homes registered under the Family Protection Act 1908.

Maintenance moneys under the Family Protection Act 1908.

Inalienable life annuities (Inalienable Life Annuities Act 1910).

Pensions under the War Pensions Act 1943.

Monetary benefits under the Social Security Act 1938.

Property subject to restraint upon anticipation, unless by consent of the Supreme Court.

Property subject to restraint upon alienation in accordance with section 33 of the Property Law Act 1952.

An infant's property, by the infant (Infants Act 1908, sections 12 and 13).

Redemption.—A memorandum of discharge vacates the mortgage debt and operates as a deed of reconveyance of the estate and interest of the mortgagee in the mortgaged property "to the person for the time being entitled to the equity of redemption"; but the mortgagee may execute a deed of reconveyance "if he thinks fit and the mortgagee requires it." The Public Trustee is empowered to receive mortgage moneys on account of absentee mortgagees, and in the case of a deed of mortgage to execute the necessary memorandum of discharge. Alternatively, application may be made to the Supreme Court, and the production of a certificate from the Registrar of the Supreme Court shall operate, upon registration, as a discharge of the land from the mortgage debt. A mortgagee may redeem in the following cases:

Before the due date, on payment of interest for the unexpired term of the mortgage. A special provision in the Mortgages and Lessees Rehabilitation Act extends the powers of a mortgagee to redeem in certain cases before the due date.

At the due date, in accordance with the provisions of the mortgage.

After the due date, upon giving three months' notice in writing or paying three months' interest in lieu of notice, except where the mortgagee is or has been in possession or has taken steps to enforce his security, in which case the mortgagee may redeem at any time upon payment of all moneys due.

After default and before sale by the mortgagee. If the mortgagee has entered into possession of the mortgaged land or part of it, the mortgagee loses his right of redemption after twenty years from the date of the mortgagee's entering into possession, or after twenty years from the last written acknowledgement of the mortgagee's title or of his right to redeem.

Earlier legislation abolished what was formerly known as the doctrine of consolidation of mortgages. Where a mortgagee is liable under more than one mortgage he may now pay off one mortgage without being called on to pay off any mortgage or mortgages on property not comprised in the mortgage he is paying off.

Rights of Mortgagee.—Under New Zealand law a mortgagee has no power of foreclosure in respect of realty. The following represent his principal rights:

He is entitled to the custody of the title deeds of the property mortgaged.

He may sue on the personal covenant contained in the mortgage deed.

He may enter and take possession. This right is exercisable either by actually entering upon the land or a part of it or by bringing an action for possession. At least one month's notice of the intention to exercise the right must be served on the owner for the time being of the land subject to the mortgage. If there is a tenant whose rights are binding on the mortgagee, the latter can give notice to the tenant to pay the rent to him, and this will be equivalent to taking possession.

He may assign his interest, either absolutely or by way of submortgage.

He may sell, either under the express powers (if any) in the mortgage deed, or under powers implied by statute, if these have not been negatived in the deed.

Instead of selling, as above, a mortgagee entitled to exercise his power of sale may apply to the Registrar of the Supreme Court to conduct the sale. The mortgagee must state in his application the estimated value of the land, and the date of the sale must be not less than one month and not more than three months from the date of the application. He may bid at the sale and become the purchaser of the land, but in such case the amount paid for the land shall not be less than the value of the land as estimated. If it is, the mortgagee must be allowed in account the full amount of the estimate. As in the case of the right to enter and take possession, no power of sale shall become exercisable unless at least one month's notice of the contemplated action has been served on the owner of the land.

MORTGAGORS AND LESSEES REHABILITATION.—The economic conditions prevailing in New Zealand consequent upon the world-wide depression led to the enactment in the early months of 1931 of legislation designed for the relief of mortgagors. The complexity of the problem necessitated, much further legislation, and a consolidating Mortgages and Tenants Relief Act was passed in December 1933. The Rural Mortgages Final Adjustment Act 1934–35, which was passed in April 1935, represented a definite attempt on the part of the Government to effect a final clearing-up of the burden of rural indebtedness. Both these enactments were repealed by the Mortgages and Lessees Rehabilitation Act 1936, a description of which may be found in the 1940 issue of the Year-Book (pp. 743–7).

In addition to the relief granted to mortgagors by way of adjustment of their liabilities, a reduction in interest rates was effected by Part III of the National Expenditure Adjustment Act 1932. The reduction in the rate of interest was 20 per cent, but the reduced rate was not to be below 6 per cent in the case of chattel mortgages, nor 5 per cent in the case of other mortgages, except in the case of income-tax-free company debentures to which section 171 of the Land and Income Tax Act 1923 was applicable. In such cases the minimum was fixed at 4½ per cent. The Act originally applied to interest accruing on or after 1 April 1932 and before 1 April 1935, but the reduction was later made permanent. Mortgages (not being for a fixed term, expired or unexpired) securing the repayment of principal, moneys repayable on demand, and mortgages executed after 1 April 1932, were exempt from the provisions of the Act.

The maximum rates of interest payable under mortgages adjusted in terms of the Mortgages and Lessees Rehabilitation Act 1936 were fixed by Order in Council at 4½ per cent per annum for first mortgages on land and 6 per cent for all other mortgages.

The Mortgages and Lessees Rehabilitation Act set up a Court of Record entitled the Court of Review, and provided for the appointment of Adjustment Commissions. Orders made by these Commissions in adjustment of mortgages, etc., were registered with the Court. Statements showing the number of applications dealt with, and the extent to which relief was granted to mortgagors and lessees in those cases where orders were made by Adjustment Commissions and filed in the Court of Review, are given on page 571 of the 1947–49 Year-Book.

WAR REGULATIONS AFFECTING MORTGAGES.—Following the outbreak of war in September 1939, the Courts Emergency Powers Regulations 1939 provided that no person could, without the leave of the appropriate Court, do or complete certain acts in respect of existing contracts, etc. These acts included the calling-up of sums secured by mortgage, the exercise of a power of sale under a mortgage, and the commencement or continuation of proceedings for the breach of a covenant under a mortgage other than a covenant for the payment of interest.

The 1939 regulations referred to were superseded by the Debtors Emergency Regulations 1940, and special provisions for the relief of mortgagors were made at the same time (31 July 1940) by the Mortgages Extension Emergency Regulations 1940. The Mortgages Extension Emergency Regulations applied to all mortgages whether executed before or after the commencement of the regulations, and notwithstanding that any power of sale, rescission, or entry into possession may have been exercised. An amendment in 1941 made special provision in respect of mortgages covering stock on, or produce of, mortgaged land. An outline of these regulations, which were revoked as from 22 November 1947, is contained on pages 546–7 of the 1946 Year-Book.

SUMMARY OF MORTGAGES REGISTERED AND DISCHARGED.—A table is given showing the amount represented by mortgages registered and discharged during each of the last twenty-one years.

Year Ended 31 March	Mortgages Registered		Mortgages Discharged	
	Number	Amount	Number	Amount
		£		£
1933	14,010	9,161,665	11,303	8,149,355
1934	12,725	7,802,853	11,100	9,086,847
1935	15,142	11,845,634	14,724	13,732,853
1936	19,118	16,227,058	18,578	17,553,233
1937	22,318	19,697,064	21,822	19,799,186
1938	24,043	19,008,184	23,629	19,344,030
1939	25,184	20,041,446	22,943	16,594,825
1940	22,632	17,621,112	20,694	14,101,049
1941	21,660	16,267,274	22,897	15,933,724
1942	20,667	14,549,555	22,577	15,098,801
1943	17,075	12,140,513	23,708	16,679,795
1944	19,928	15,596,790	27,161	20,029,988
1945	21,212	18,099,861	27,414	21,012,079
1946	24,516	22,519,122	29,174	23,313,916
1947	29,882	31,088,750	32,234	25,947,489
1948	29,893	32,041,085	29,002	25,396,004

Year Ended 31 March	Mortgages Registered		Mortgages Discharged	
	Number	Amount	Number	Amount
1949	29,578	35,298,600	26,642	23,375,257
1950	30,352	36,005,522	26,093	23,101,350
1951	43,875	45,819,691	35,503	32,266,362
1952	49,840	67,961,355	37,926	37,264,157
1953	50,633	73,713,011	34,160	31,400,871

The figures given in the preceding table have been adjusted to exclude duplicate registrations—i.e., cases in which a mortgage has been registered in more than one district, it should also be noted that the figures include collateral mortgages and guarantee mortgages not representing money indebtedness. On the other hand, no amount is shown as secured in a proportion of cases where a mortgage is given in anticipation of advances, etc. In addition there are numbers of privately arranged advances which are not registered; and stock and crop liens, bills of sale, and instruments under the Chattels Transfer Act are not included in the statistics.

Many mortgages are not registered, particularly in the case of leaseholds and also of second or other further mortgages when the power of sale has been exercised by the first mortgagee. The figures for discharges are further affected by the high proportion of table mortgages. This is particularly so in cases where the mortgage is approaching maturity, since the whole amount remains on the register until finally discharged, despite the fact that the original amount of indebtedness has been considerably reduced.

MORTGAGES REGISTERED.—The total amount for which mortgages were registered, both under the deeds-registration system and under the Land Transfer Act, in each registration district during the last five financial years is given in the next table.

District	1948–49	1949–50	1950–51	1951–52	1952–53
	£	£	£	£	£
Auckland	11,563,864	12,462,672	15,593,144	26,319,769	29,399,410
Gisborne	584,967	670,627	743,511	1,649,652	1,265,596
Hawke's Bay	2,023,910	2,852,843	2,420,913	3,989,890	3,410,517
Taranaki	1,580,427	1,476,319	1,709,536	3,701,181	2,895,006
Wellington	7,415,508	7,243,926	9,993,702	13,803,331	14,594,911
Marlborough	497,329	532,115	549,056	718,815	871,641
Nelson	908,932	1,026,206	1,275,379	2,049,588	2,036,794
Westland	286,272	278,687	299,732	395,683	553,133
Canterbury	5,710,655	5,486,790	6,929,144	10,948,400	9,763,110
Otago	3,034,697	2,749,042	4,261,996	5,924,199	6,292,397
Southland	1,787,249	1,869,575	2,279,616	3,678,612	3,649,966
Gross totals	35,393,810	36,048,804	46,055,729	73,179,120	74,732,481
Duplications	95,210	43,282	236,038	5,217,765	1,019,470
Net totals	35,298,600	36,005,522	45,819,691	67,961,355	73,713,011

Mortgage registrations, which declined appreciably following the outbreak of war, commenced to move upwards again early in 1943 and by 1945–46 the figures of the pre-war year 1938–39 were exceeded. In the next year (1946–47) a heavy increase was recorded, the net amount for that year being £8,569,628, or 38.1 per cent greater than in 1945–46. Each succeeding year has shown a further increase. Moreover, following on the exemption from control of the sale of all lands, other than farm lands, in February 1950 and of farm lands in November 1950 there was a marked increase in mortgage registrations in 1950–51, the total of £45,819,691 exceeding that of the previous year by £9,814,169, or 27.3 per cent. The high figures of the post-war years have also been contributed to in some measure by the registration of mortgages in respect of rehabilitation assistance granted to ex-servicemen. In 1951–52, the first full year following upon the lifting of controls on the sale of land, the number and amount of mortgage registrations reached the high level of 49,840 and £67,961,355 respectively, and there was a further increase to 50,633 and £73,713,011 respectively in 1952–53.

Of the net total of £73,713,011 registered in 1952–53, only £250 was in respect of mortgages under the deeds system. In recent years this amount has fallen to negligible proportions as a result of the passing of the Land Transfer (Compulsory Registration of Titles) Act 1954, which provided for the bringing of all land titles under the provisions of the Land Transfer Act. This work has been practically completed although there are a few titles that it has been considered unwise to deal with at the present owing to grave doubts as to ownership or for some other reason (see Section 18A).

Classification by Amount.—Of the gross total of £74,732,231 represented by mortgages registered under the Land Transfer Act during the financial year 1952–53, mortgages under £500 in value represented 4.1 per cent of the total; from £500 to £999, 8.1 per cent; £1,000 to £1,999, 3.50 per cent; £2,000 to £2,999, 14.2 per cent; £3,000 to £3,999, 6.1 per cent; £4,000 to £4,999, 5.2 per cent; £5,000 to £7,499, 8.9 per cent; and from £7,500 and over, 20.4 per cent. The following table gives the number and amount for town and suburban and country properties according to sum secured.

Amount Group	Town and Suburban		Country		All Properties	
	Number	Amount	Number	Amount	Number	Amount
£ £		£		£		£
Under 500	10,619	2,754,850	1,166	350,122	11,785	3,104,972
500–999	6,344	5,070,790	1,188	976,496	7,532	6,047,286
1,000–1,999	13,236	21,449,505	1,992	3,206,854	15,228	24,656,359
2,000–2,999	8,216	7,656,666	1,150	2,979,946	4,266	10,636,612
3,000–3,999	495	1,768,385	763	2,767,741	1,258	4,536,126
4,000–4,999	185	864,653	646	2,998,592	831	3,863,245
5,000–7,499	161	1,065,623	897	5,556,113	1,058	6,621,736
7,500 and over	231	4,528,235	744	10,737,660	975	15,265,895
Unspecified	4,885		2,740		7,625	
Gross totals	39,372	45,158,707	11,286	29,573,524	50,658	74,732,231
Duplications	17	735,350	9	284,120	26	1,019,470
Net totals	39,355	44,423,357	11,277	29,289,404	50,632	73,712,761

Excluding mortgages for which no amounts were shown, the average amount for each mortgage registered in 1952–53 was £1,737 as compared with £1,830 in 1951–52.

Mortgages on Urban and Rural Securities.—Figures are available in the case of land-transfer mortgage registrations showing for each registration district the amounts advanced on urban and on rural properties. The distinction is between "town and suburban" and "country" holdings, but sufficient information to permit of a strictly accurate classification on that basis is not always available. Generally, however, mortgages are regarded as town and suburban if secured on properties situated within cities or boroughs or on small holdings in the nature of building allotments which are not definitely distinguishable as country properties. Mortgages classified as town and suburban in 1952–53 were secured on areas averaging just over one-quarter of an acre in extent, as compared with an average area of some 2.49 acres in the case of "country" securities.

Town and suburban securities accounted for 78 per cent of the number and 60 per cent of the aggregate value of land-transfer mortgages in 1952–53, as compared with 22 per cent and 40 per cent respectively in the case of country properties.

The following table gives mortgages registered in the various districts during the year 1952–53 under the Land Transfer Act.

District	Town and Suburban			Country		
	Number	Area	Amount Secured	Number	Area	Amount Secured
		Acres	£		Acres	£
Auckland	14,629	3,899	17,057,025	4,832	757,824	12,342,135
Gisborne	625	185	728,092	237	94,830	537,504
Hawke's Bay	1,634	431	1,590,436	648	204,418	1,820,801
Taranaki	1,137	307	1,205,783	672	128,218	1,689,223
Wellington	8,421	1,996	10,583,925	1,470	343,431	4,010,986
Marlborough	409	164	437,125	160	108,751	434,516
Nelson	1,080	285	1,193,066	385	67,548	843,728
Westland	338	84	432,093	76	16,382	121,040
Canterbury	5,947	1,468	6,304,210	1,263	447,349	3,458,900
Otago	3,908	820	4,200,681	790	366,949	2,091,716

District	Town and Suburban			Country		
	Number	Area	Amount Secured	Number	Area	Amount Secured
Southland	1,244	327	1,426,271	753	272,905	2,223,695
Totals	39,372	9,966	45,158,707	11,286	2,808,605	29,573,524

An eleven year summary upon similar lines is also given. Mortgages on country properties after 1936-37, and for two years later in regard to town and suburban properties, showed an almost continuous recession until 1943-44. Each subsequent year up to and including 1946-47 witnessed a substantial increase in values for both urban and rural properties, the increase in that year being heavy. The 1947-48 registrations showed little difference from those of the preceding year, though there were considerable increases in both categories for the 1948-49 year. The increase in urban mortgages continued in 1949-50, but with the lifting of the restrictions on the sale of all lands, other than farm lands, in February 1950 the upward movement was accelerated, the increase in 1950-51 amounting to £9,399,190, or 42 per cent, over the previous year, followed by a further substantial increase of £14,720,677, or 46 per cent, in 1951-52 as compared with 1950-51. However, in 1952-53, although the number registered increased slightly there was a decline of £1,591,952 in the value of urban mortgages. Following the decrease in mortgages on country properties in 1949-50 there was an increase in 1950-51 of £610,677, or 5 per cent, over the 1949-50 year. The restrictions on the sale of farm lands were, however, not lifted until November 1950, and consequently the effect of the lifting of such controls is reflected more in the 1951-52 increase of £12,401,567, or 88 per cent as compared with the previous year in the amount secured on country properties. This increase continued in 1952-53 when the amount secured was £3,148,688 greater than the 1951-52 total.

Year Ended 31 March	Number	Area			Amount Secured		
		Town and Suburban		Country	Town and Suburban		Country
		Acres	Acres	Acres	£	£	£
1943	17,044	3,926	1,083,750	1,087,676	7,493,592	4,610,392	12,103,984
1944	19,903	4,668	1,477,207	1,481,875	8,701,321	6,880,507	15,581,828
1945	21,161	5,179	1,527,348	1,532,527	10,542,948	7,542,072	18,085,020
1946	24,483	6,297	1,640,729	1,647,026	13,987,967	8,508,462	22,496,429
1947	29,860	7,467	2,321,085	2,328,552	18,399,116	13,260,064	31,659,180
1948	29,876	8,014	2,267,827	2,275,841	19,103,418	13,183,634	32,287,052
1949	29,570	7,560	2,293,545	2,301,105	21,503,752	13,876,164	35,379,916
1950	30,353	7,607	2,397,545	2,405,152	22,630,792	13,412,592	36,043,384
1951	43,884	9,373	2,429,844	2,439,217	32,029,982	14,023,269	46,053,251
1952	49,882	10,021	2,563,240	2,573,261	46,750,659	26,424,836	73,175,495
1953	50,658	9,966	2,808,605	2,818,571	45,158,707	29,573,524	74,732,231

NOTE.—These figures exclude certain miscellaneous registrations, but have not been adjusted to exclude duplications.

Rates of Interest.—Classified according to the various rates of interest, and including duplicate registrations (to the extent of £5,217,765 in 1951-52 and £1,019,470 in 1952-53), the amounts in land-transfer mortgages registered were as given below.

Rate Per Cent	1951-52		1952-53	
	£	£	£	£
½		500		
¾		280		
1		1,025		
		8,000		
½	700	504		
¾		250		
1	16,345	25,437		
1½		100		
1½	4,064	27,710		
1¾		700		
2	138,088	144,429		
2½	1,900	2,140		
2½	1,713			
2½	182,644	210,506		
3	12,289,851	12,112,302		
3	8,760	12,285		
3½	238,738	563,893		
3½	28,950	3,711		
4	9,561,880	4,129,286		
4	400	155		
4	9,694	5,819		
4	6,217,576	11,264,168		
4½	22,300	169,980		
4½	10,932,831	5,276,441		
4½		4,028		
4	49,950	10,905		
4½	17,387,762	18,075,689		
4	14,033	11,050		
4½		8,820		
4½	945			
4½	371,697	1,123,096		
4½		1,530		
4	150			
5	4,721,922	11,812,667		
5		900		
5	1,100	1,285		
5½		2,500		
5½	647,795	168,202		
5½	1,500			
5½	340,084	928,443		
5½	7,750	41,450		
6	643,875	1,175,102		
6		100		
6½	5,000	2,164		
6½	1,750			
6½	210,985	55,388		
6½	405,208	481,028		
6½	1,300	1,900		

Rate Per Cent	1951-52		1952-53	
	£	£	£	£
6½		2,200		
7	281,285	621,509		
7½		1,700		
7½		10,000		
7½	9,535	46,590		
7½	15			
8	114,941	173,593		
8½		6,300		
8½	950	4,825		
9	4,987	14,590		
9½	2,747	2,825		
9½	1,090	1,149		
9½	70			
10	70,393	81,146		
11		450		
12	850	1,650		
12½		2,385		
13		1,705		
13		1,500		
14	650			
15	758	1,060		
30		443		
36		100		
Unspecified	8,217,984	5,890,943		
Totals	73,175,495	74,732,231		

A further classification of the 1952-53 figures in the preceding table is now given, showing the various rates of interest for town and suburban and country properties.

Rate Per Cent	1952-53	
	Town and Suburban	Country
	£	£
¾	500	
¾	280	
1	1,025	
		8,000
½	504	
¾	250	
¾	100	
1	12,915	12,522
1½	100	
1½		27,710
1¾	700	
2	88,332	56,097
2½	2,140	
2½	77,174	133,332
3	7,273,279	4,839,023
3½	11,285	1,000
3½	127,661	436,232
3½	2,211	1,500
4	1,827,252	2,302,034
4	155	
4	5,819	
4½	7,459,291	3,804,877
4½	169,980	
4½	2,621,209	2,655,232
4½	4,028	
4	3,600	7,305
4½	10,665,213	7,410,476
4	825	10,225
4½	8,820	
4½	634,767	488,329
4½	1,530	
5	8,132,170	3,680,497
5	900	
5½	785	500
5½		2,500
5½	77,398	90,804
5½	655,838	272,605
5½	29,500	11,950
6	827,472	347,630
6	100	
6½		2,164
6½	200	55,188
6½	259,083	221,945
6½	1,900	
6½	2,200	
7	400,620	220,689
7½	1,700	
7½	6,000	4,000
7½	37,285	9,305

Rate Per Cent	1952-53	
	Town and Suburban	Country
8	117,755	55,638
8½		6,300
9	4,825	
9½	14,590	
10	825	2,000
10½	57,697	23,449
11	450	
12	1,000	650
12½	350	2,035
13	1,705	
13½	1,500	
15	60	1,000
30	443	
36	100	
Unspecified	3,522,162	2,368,781
Totals	45,158,707	29,573,524

The average rate of interest on new mortgages was maintained at over 6 per cent annum from 1922 to 1932, but with the advent of the depression period and the effect of the mortgage relief legislation, subsequent years showed decreases. The inclusion of State Advances mortgages from the year 1935-36 onwards has no doubt also had the effect of reducing the average rate, and in addition the advent of rehabilitation mortgages to ex-servicemen in the earlier post-war years and their gradual diminution in more recent years affected the rate. The average rate has shown a rising trend since 1947. The average rate of interest for town and suburban mortgages for 1952-53 was 4.33 per cent, as compared with 4.24 per cent for country properties. The comparative figures for 1951-52 were 4.20 and 4.09 respectively. Averages for recent years for all properties have been as follows.

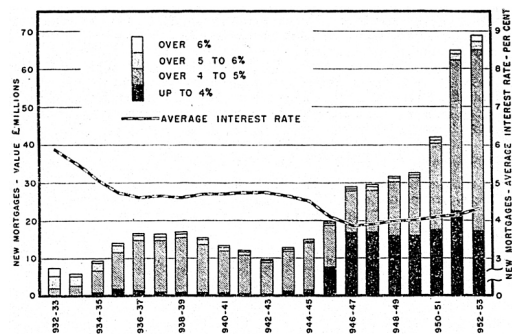
Year Ended 31 March	Average Rate Per Cent
1943	4.72
1944	4.63
1945	4.51
1946	4.10
1947	3.85
1948	3.90
1949	3.98
1950	3.99
1951	4.09
1952	4.15
1953	4.29

As indicated earlier in this Section (page 792), rates of interest since 1932 have been considerably affected by legislative action. In 1931-32, the financial year immediately preceding the operation of the National Expenditure Adjusting Act, the average rate of interest on mortgages registered was 6.28 per cent, as compared with 4.51 per cent in 1944-45. The sharp fall to 4.10 per cent in 1944-45, and the further fall to 3.85 per cent in the following year, were mainly due to rehabilitation loans granted to ex-servicemen by the State Advances Corporation. The rate of interest charged on rehabilitation loans for residential and farm properties is 3 per cent, and of the gross amount of mortgages registered during the seven years 1946-47 to 1952-53 no less than 38.4, 36.7, 30.2, 28.0, 22.4, 16.8, and 16.2 per cent respectively were at this rate, as compared with only 2.0 per cent in 1944-45. The rise in the average rate for the last four years probably reflects the gradually decreasing though still substantial proportion of the gross amount which is due to rehabilitation loans. Also the general trend of increased rates of interest on new mortgages is shown by the analysis of the 1952-53 figures. It is of interest to note that in 1931-32 only 10.2 per cent of the specified amount was at rates not exceeding 5 per cent, while no less than 43.3 per cent was at rates exceeding 6 per cent. The corresponding figures for 1952-53 were 94.4 and 2.2 respectively.

A further analysis showing amounts specified by interest rate groups is given below. This table shows that the proportion of new mortgages registered in the higher range of interest rates rose appreciably in 1952-53, especially in the group of over 4½ per cent to 5 per cent.

Year Ended 31 March	Not Exceeding 3 Per Cent	Over 3 Per Cent to 4 Per Cent	Over 4 Per Cent to 4½ Per Cent	Over 4½ Per Cent to 5 Per Cent	Over 5 Per Cent to 6 Per Cent	Exceeding 6 Per Cent
	£	£	£	£	£	£
1943	119,998	470,667	4,726,366	3,545,127	538,605	237,719
1944	158,358	1,122,609	6,686,810	3,987,689	529,353	300,820
1945	456,005	1,179,991	9,333,215	3,069,124	420,288	398,760
1946	5,883,012	1,838,447	7,970,555	3,077,333	475,215	366,029
1947	12,317,270	4,456,588	8,043,171	2,955,989	515,680	417,148
1948	11,999,168	4,725,053	8,550,255	2,581,167	942,998	606,446
1949	10,796,498	5,057,079	11,386,238	2,861,779	992,820	499,543
1950	10,302,301	5,524,795	12,748,067	2,697,301	656,134	469,230
1951	10,558,345	6,903,784	18,983,511	3,780,242	798,598	880,315
1952	12,635,305	9,838,328	34,620,513	5,108,747	1,642,104	1,112,514
1953	12,633,983	4,709,175	34,807,185	12,957,163	2,317,882	1,515,900
	Percentage of Total					
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
1943	1.2	4.9	49.0	36.8	5.6	2.5
1944	1.2	8.8	52.3	31.2	4.1	2.4
1945	3.1	7.9	62.8	20.7	2.8	2.7
1946	30.0	9.4	40.6	15.7	2.4	1.9
1947	42.9	15.5	28.0	10.3	1.8	1.5
1948	40.8	16.0	29.1	8.8	3.2	2.1
1949	34.2	16.0	36.0	9.1	3.1	1.6
1950	31.7	17.0	39.2	8.3	2.0	1.8
1951	25.2	16.5	45.3	9.0	1.9	2.1
1952	19.5	15.1	53.3	7.9	2.5	1.7
1953	18.2	6.8	50.6	18.8	3.4	2.2

The trend in interest rates is further illustrated in the following diagram, which shows also the movement in mortgage registrations. The total amounts indicated in the diagram and in the two immediately preceding tables do not represent the total registrations in the respective years, as mortgages on which the rate of interest was not specified have been excluded.



MORTGAGES DISCHARGED.—After a very long period during which the value of mortgages registered substantially exceeded the amount represented by mortgages released, discharges exceeded registrations for a period of five years commencing with the year 1933-34. In the subsequent three years the reverse position obtained, but, commencing with 1941-42, discharges again commenced to exceed registrations, and continued to do so up to 1945-46, although the margin in that year was not very great. In each of the succeeding seven years registrations exceeded discharges, the difference for each of the last three years being £13,553,329 in 1950-51, £30,697,198 in 1951-52, and £42,312,140 in 1952-53.

The total amount released in 1952-53 was £31,400,871, or £5,863,286 (15.7 per cent) less than the record amount of £37,264,157 discharged in the previous year.

The total amount of mortgages discharged, including mortgages under the deeds-registration system, for the last four years is as follows.

District	1949-50		1950-51		1951-52		1952-53	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
		£		£		£		£
Auckland	8,087	6,791,423	11,680	9,569,101	12,863	11,832,452	12,043	9,807,456
Gisborne	536	591,843	677	917,837	604	613,397	547	637,669
Hawke's Bay	1,304	1,418,736	1,698	1,776,319	1,725	1,937,105	1,591	1,885,729
Taranaki	1,080	1,021,207	1,379	1,457,913	1,564	1,825,144	1,355	1,362,964
Wellington	5,287	5,245,504	7,408	7,703,149	7,678	8,421,912	6,967	7,094,635
Marlborough	387	387,166	423	380,137	467	411,205	390	306,456
Nelson	672	436,353	1,019	696,491	1,046	771,662	915	733,696
Westland	255	160,583	326	213,897	290	247,814	265	195,616
Canterbury	4,237	3,812,066	5,271	5,034,766	5,617	5,961,288	4,839	4,743,703
Otago	2,826	1,893,131	3,845	2,905,745	4,161	3,577,923	3,691	3,003,196
Southland	1,422	1,343,338	1,784	1,615,106	1,920	1,995,003	1,557	1,629,751
Gross totals	26,093	23,101,350	35,510	32,270,461	37,935	37,594,905	34,160	31,400,871
Duplications			7	4,099	9	330,748		
Net totals	26,093	23,101,350	35,503	32,266,362	37,926	37,264,157	34,160	31,400,871

Details of town and suburban and country discharges for 1952-53 are given in the following table.

District	Year Ended 31 March 1953					
	Town and Suburban			Country		
	Number	Area	Amount Discharged	Number	Area	Amount Discharged
	Acres	£		Acres	£	
Auckland	8,010	2,092	5,494,067	4,033	637,600	4,313,389
Gisborne	326	96	238,448	221	123,784	399,221
Hawke's Bay	991	260	673,781	600	190,477	1,211,948
Taranaki	692	190	493,614	663	129,922	869,350
Wellington	5,481	1,250	4,418,135	1,486	365,569	2,676,500
Marlborough	226	113	114,757	154	100,451	191,699
Nelson	612	160	428,657	303	69,432	303,039
Westland	207	52	147,071	58	11,673	48,545
Canterbury	3,555	889	2,696,010	1,284	484,484	2,047,693
Otago	2,943	880	1,957,218	748	329,760	1,045,978
Southland	901	233	703,222	656	231,526	926,529
Totals	23,954	5,915	17,364,980	10,206	2,674,678	14,035,891

33 B—STATE ADVANCES

As early as 1892 the Government commenced the purchase of lands for cutting up for sale or lease to private individuals, and two years later the passing of the Advances to Settlers Act 1894 marked the inauguration of a series of schemes for lending money to settlers, workers, etc., for the purchase of homes, the improvement of farms, and the development of resources and of industries. The schemes varied considerably in detail, but all lay in one of two main classes—those in which the money was advanced on security, and those in which the expenditure was incurred by the Government itself in the first place and recouped from sales or leases. Advances to settlers, workers, and ex-servicemen are the principal examples of the former class, and the purchase of land for settlement (including the settlement of ex-servicemen) is the principal example of the latter.

STATE ADVANCES CORPORATION.—The Mortgage Corporation of New Zealand Act 1934-35 authorized the creation of a Corporation under a Board composed of directors appointed partly by the State and partly by the shareholders of the Corporation.

By the State Advances Corporation Act 1936 the private capital invested in the Mortgage Corporation was cancelled, provision being made for repayment to shareholders in respect of shares held in the Corporation. The capital of the Corporation was maintained at £1,000,000, however, by an investment from the Consolidated Fund, while all securities issued by the Corporation carry a State guarantee. The management of the Corporation is vested in a Board of Directors consisting of a managing director and deputy managing director appointed by the Governor-General in Council, one or more other directors similarly appointed, and an *ex-officio* member (necessarily a Treasury official) appointed by the Minister of Finance. In the exercise of its powers, the Board is enjoined to have regard to any representations that may be made by the Minister of Finance. Every direction in writing given by the Minister is binding on the Board.

The change in administration and the institution of a State guarantee on securities issued by the Corporation represented the major alterations to the pre-existing law. All the functions of the Mortgage Corporation were transferred to the new body, while certain extensions of function were made—e.g., the administration of the Housing Act 1919. The following is a *résumé* of the principal functions of the State Advances Corporation.

The Corporation administers the State Advances, etc., loans previously transferred to the pre-existing Mortgage Corporation, viz.—

1. Mortgages in respect of advances to settlers or workers under the State Advances Act 1913:

2. Mortgages in respect of advances under the Rural Advances Act 1926:

3. Debentures or other securities vested in the State Advances Superintendent in respect of advances to local authorities under Part III of the Local Bodies' Loans Act 1926, or corresponding provisions of former Acts:

4. Crown mortgages in respect of advances to ex-servicemen of the First World War under the former Discharged Soldiers Settlement Act 1915 or any amendments thereof (including advances under section 11 of the Finance Act 1933), and now under the Land Act 1948.

In order to provide loan finance the Corporation may issue bonds, stock, or other securities which are State guaranteed.

The Corporation may advance on the security of a first mortgage on land, and normally such advances do not exceed two-thirds of the value of the security, but there is provision for the extension of that margin in certain cases, including the rehabilitation loans referred to later, and for such purposes as the erection of new houses. No loan limit is laid down for cases where the amount of the advance does not exceed two-thirds of the value of the security, but loans over £2,250 are not usually granted on the security of dwellings. In cases where the normal margin is exceeded with the approval of the Government, the Minister of Finance guarantees the Corporation against any loss attributable to the granting of advances in excess of two-thirds of the value of the security. For the purpose of erecting new homes up to 90 per cent of the value of the security may be advanced, and the loan limit for such cases was increased in 1950 to £2,000, including any suspensory loan that may be granted.

A suspensory loan is, in effect, a conditional subsidy towards the cost of building a home for personal occupation. These loans are repayable should the house be sold or otherwise disposed of within seven years; otherwise they are free of interest and will be converted into grants when the seven years have expired. They are limited to 10 per cent of the cost, with a maximum of £200. If the cost is greater than £2,300 the amount of the suspensory loan is reduced by £1 for every £2 by which the cost exceeds £2,300, with no suspensory loan if the amount should fall below £50. Extended cost limits are allowed in the case of families where there are more than two children. As with the increased loan limit, the suspensory loan scheme applied to houses commenced on or after 1 December 1949. The number of suspensory loans of this type approved for the year ended 31 March 1953 was 2,331 involving £380,828, and the total to 31 March 1953 was £1,526,807 in respect of 9,940 loans.

In addition to the above suspensory loan scheme there is a further class of suspensory loan granted to rehabilitation farm applicants, the object of which is to settle the men on a basis comparable with that under the conditions which existed while the Servicemen's Settlement and Land Sales Act 1943 remained in force. During the past year 586 suspensory loans of this type were granted involving advances of £679,410. Since the scheme was put into operation a total of 1,288 such suspensory loans have been authorized, the aggregate amount involved being £1,401,705, but a substantial portion of these loan authorizations had not come to charge as at 31 March 1953. In addition, three suspensory loans totalling £555 for payment of gift duty were authorized during the year. The funds required to meet urban and rural suspensory loans are provided by the Treasury out of the Consolidated Fund, and lump-sum payments are made by the Treasury to the Corporation to meet requirements from time to time. The present position in regard to these loans and the provision made by the Treasury to finance them is as follows.

	£	£
Balance held on Treasury Account at 31 March 1952		338,617
Advance from Treasury during year ended 31 March 1953		650,000
		988,617
Loans paid over for the year ended 31 March 1953	1,126,349	
Less repayments during the year	23,930	
		1,102,419
Balance due to Corporation		£113,802

The large majority of the loans granted by the Board are secured by table mortgages for terms varying from ten to forty-five years, but the Board has power to make advances on flat mortgage for a period of five years, though renewals of such mortgages cannot be extended for longer than one further period of five years. There is provision for varying the scheme of table mortgages in special circumstances, part of the mortgage (at least one-half) to be in the form of a table mortgage and the remainder a flat mortgage falling due on the date of the last instalment of the table mortgage.

A mortgagor may be required to effect a policy of life insurance as additional security, such policy to be assigned to the Corporation. A mortgagor may not give any subsequent mortgage or any other charge over land subject to any mortgage to the Corporation except with the written authority of the Board unless the further mortgage or other charge is in favour of the Corporation.

Each mortgagor is required to pay an amount equal to 2 per cent of any mortgage granted by the Corporation as a contribution to the General Reserve Fund. These amounts, which may be borrowed as an addition to the principal sum if so desired, together with the surplus profits referred to below, and certain payments on account of mortgages transferred to the Corporation, form the General Reserve Fund.

The Board is required from time to time to fix the rates of interest to be paid under mortgages to the Corporation, so as to make adequate provision to cover the costs of administration and for all other matters incidental to the proper functioning of the Corporation. After such provision as the Minister of Finance thinks proper has been made for the depreciation of securities or other assets, and for such other matters as in his opinion are necessary for the efficient conduct of the business of the Corporation, the surplus for each financial year to be paid into the Public Account unless the Minister, in his discretion, authorizes the Board to credit it, in whole or in part, to the General Reserve Fund of the Corporation.

In addition to its primary function of providing cheap long-term finance in the form of first mortgage on property, the Corporation has been authorized to make loans to local authorities out of the Housing Account for the purpose of erecting workers' dwellings or farm dwellings, and also advances to individuals for the development of existing industries or the establishment of new industries.

The Corporation is also authorized to act as agent for other Departments of State, more particularly in respect of the inspection and supervision of properties and the collection of moneys payable to such Departments.

The Corporation acts as the agent of the Rehabilitation Board in obtaining valuations and preparing reports in respect of farm and residential property for submission to the Rehabilitation Loans Committee (or to District Loans Committees acting under delegated authority from the Rehabilitation Loans Committee), which has been appointed to consider and approve of loan applications lodged by ex-servicemen who are eligible for assistance under the Rehabilitation Act 1941. The administration of such loans, when granted, is the subsequent responsibility of the Corporation. The classes of loans granted and the terms and conditions applicable thereto are set out in Section 9B (Rehabilitation). The securities taken in respect of rehabilitation loans for farms or houses are similar to mortgages taken for the purpose of securing advances made under the Corporation's ordinary lending activities, except that the Reserve Fund contribution on advances within the respective loan limits is paid by the Consolidated Fund, which also meets the difference between the Corporation's normal interest rate and the reduced interest rate charged to ex-servicemen. These payments to the Corporation were formerly met from the War Expenses Account which was abolished as from 1 April 1950. In respect of other types of rehabilitation loans such as for businesses and the purchase of furniture and tools of trade the necessary loan finance was also provided from the War Expenses Account. When this account was closed a sum of £500,000 was transferred to the State Advances Corporation for the purpose of granting future loans of this nature. These loans are administered by the Corporation on an agency basis. The form of security taken and the terms as to repayment vary according to the type of loan and the circumstances of the borrower.

A mortgage guarantee scheme was provided for by the State Advances Corporation Amendment Act 1953. This amendment enables the Corporation to guarantee financial institutions repayment by the borrower of the difference between their normal housing loan and 90 per cent of the valuation.

Reference to the Housing Act 1919 and the Government's housing scheme, together with particulars of the numbers of houses erected, financial operations, etc., are contained in Section 25 (Building, Construction, and Housing).

Summary of Activities.—As already indicated, the Corporation, in addition to its normal lending functions, administers a number of other State activities, and a general summary of the business under administration as at 31 March 1953 is as follows.

	Number of Accounts	Principal Investment
Mortgage investments—		£
Urban	51,324	53,226,978
Rural	23,963	46,283,713
Loans to local authorities	910	5,296,049
Loans to industries under section 29	31	1,743,031
Housing Account—		
Dwellings let	35,176	60,252,833
Shops, halls, and communal garages	214	
Dwellings sold	7,265	13,815,998
Loans to local authorities	103	927,575
Loans to employers	28	112,050
Rural Housing Act: Loans to local authorities	44	154,412
Advances under Rehabilitation Act 1941		
Furniture, tools of trade, business, and miscellaneous	26,619	1,960,290
Interest-free supplementary loans		1,927,104
Other principal agencies—		
Agriculture Emergency Powers Act 1934	4	11,430
Farmers' Loans Emergency Regulations 1940	48	29,145
Works Department hutments rented to farmers	14	5,599
Suspensory loans (rural and urban)	7,094	2,288,802
Timber-workers' housing—		
Levies accounts	650	485,063
Rental accounts	113	
Miscellaneous rentals	485	

	Number of Accounts	Principal Investment
Totals	154,085	£188,520,072

Farm loans and residential loans to ex-servicemen under the Rehabilitation Act 1941 are included with "Mortgage investments" above. Particulars of all rehabilitation loan authorizations will be found in Section 9B (Rehabilitation).

Financial.—Balance-sheet figures show that at 31 March 1953 the authorized capital was £1,000,000, while stock and debentures outstanding were £95,722,590, an increase of £13,800,000 in the case of the latter compared with 31 March 1952.

The General Reserve Fund at 31 March 1953 amounted to £6,624,527, and, in addition, there were specific reserves amounting to £2,775,195, making a total of £9,399,722, as compared with £8,821,999 at 31 March 1952.

Mortgages and accrued interest at 31 March 1953 totalled £99,593,580, an increase of £13,798,197 as compared with 31 March 1952, while Government and local authority securities and accrued interest at £7,089,978 were greater by £917,965.

The disposition and appropriation of profits in respect of operations during each of the last three financial years are given in the following table.

	1950-51	1951-52	1952-53
	£	£	£
Gross income	3,449,712	3,737,428	4,143,579
Less interest on General Reserve Fund investments	187,863	202,907	214,485
Gross income (mortgage and temporary investments)	3,261,849	3,534,521	3,929,094
Interest on stock and debentures	2,342,596	2,501,485	2,841,414
Gross profit	919,253	1,033,036	1,087,680
Management expenses	370,858	424,853	457,569
Administration of rehabilitation advances	102,821	96,392	87,934
Earthquake insurance	17,098	18,958	22,667
Net profit	428,476	492,833	519,510
Less reserve for taxes	330,720	377,492	370,000
Less reserve for losses	40,395	40,223	60,583
Surplus payable to Crown	57,361	75,118	88,927

The gross income of £4,143,579 in 1952-53 included £3,153,357 interest on mortgages and current accounts, £216,718 interest on Government and local authority securities and temporary investments, and £773,169 recovery from the Rehabilitation Department on account of interest concessions to ex-servicemen on rehabilitation advances. Corresponding figures for 1951-52 were £2,833,941, £199,965 and £702,941 respectively.

New Business.—A summary of loan operations (new business) for the last two financial years is given in the following table.

Loans Authorized	1951-52		1952-53	
	Number	Value	Number	Value
Urban securities—		£		£
Erection of dwellings	3,351	6,140,674	3,323	6,245,438
Purchase, refinance, and other purposes	3,405	4,738,467	6,286	8,111,296
Supplementary	(1,506)	111,755	(1,161)	85,910
Suspensory	(2,513)	410,115	(2,273)	370,628
Totals, urban	6,756	11,401,011	9,609	14,813,272
Rural securities—				
Purchase, refinance, and other purposes	1,104	6,280,639	2,060	8,310,661
Suspensory	(594)	597,649	(647)	690,165
Totals, rural	1,104	6,878,288	2,060	9,000,826
Loans to industry		71,211	5	226,800
Local authorities	40	614,900	116	1,797,575
Grand totals	7,900	18,965,410	11,790	25,838,473
* Excludes the number of supplementary and suspensory loans.				

The preceding figures include rehabilitation loans in respect of farms and houses. Other rehabilitation loans granted by the Rehabilitation Loans Committee and administered by the Corporation were as follows.

Loans Authorized	Year Ended 31 March 1952		Year Ended 31 March 1953		Total to 31 March 1953	
	No.	Value	No.	Value	No.	Value
		£		£		£
Business	604	406,572	428	311,138	10,699	6,842,197
Furniture	4,146	399,126	3,298	316,267	57,103	5,315,013
Tools of trade	22	838	14	532	1,459	48,135
Miscellaneous	38	4,434	29	3,848	633	128,668
Additional advances			280	30,444	280	30,444
Totals	4,810	810,970	4,049	662,229	70,174	12,364,457

A statement is given below of the aggregate number and amount of loans approved by the Board of Management since the Corporation commenced business in 1935.

	Number	£
Farm (including supplementary and suspensory)	16,332	60,343,270
Residential (including supplementary and suspensory)	72,285	88,923,221
Local authorities	765	10,782,403
Industries	42	2,009,396
Totals	89,424	162,058,290

The lending rate of the Corporation was maintained during 1952-53 at 4½ per cent. Rehabilitation loans to ex-servicemen for houses and farms were, however, at 3 per cent, reducible to 2 per cent for the first year, and for business loans at 4 per cent, reducible to 2 per cent for the first year. The amount involved in interest concessions of this kind is now recouped from the Consolidated Fund. Loans granted under the Corporation's normal lending business are in general secured by table mortgages for varying periods. The following summary shows the annual cost—i.e., interest and principal payments—per £100 borrowed on table mortgage at 4½ per cent for the various periods.

Term	Annual Amount Payable			
	£	s.	d.	
Ten years	12	6	2	
Fifteen years	9	0	2	
Twenty years	7	7	10	
Twenty-five years	6	9	0	
Thirty years	5	16	10	
Thirty-five years	5	8	6	
Forty years	5	2	6	
Forty-five years	4	18	2	

The State Advances Corporation increased interest rates from 22 December 1953 on loans for the purchase of approved urban and rural properties from 4½ per cent to 4¾ per cent. The higher interest rate does not apply to loans for the building of new houses, nor does it affect existing loans.

Special plans prepared by leading architects are available in book form, and assistance in calling tenders and in the erection of the houses is available from the Corporation's technical officers.

RURAL INTERMEDIATE CREDIT.—The Rural Intermediate Credit Board, appointed in terms of the Rural Intermediate Credit Act 1927, provided a source from which farmers could obtain loan finance on favourable terms for such purposes as the purchase of stock and plant and farm improvements.

Pursuant to the provisions of Part VI of the State Advances Corporation Act 1936, the former Rural Intermediate Credit Board went out of office on 1 July 1937, and was replaced by the Board of Management of the State Advances Corporation, whose members became the Rural Intermediate Credit Board.

In terms of the Rural Intermediate Credit Amendment Act 1946 the business of the Rural Intermediate Credit Board was, as from 1 October 1946, absorbed by the State Advances Corporation, the Board being abolished as from that date.

Under the Act farmers may obtain assistance in the following manner:

a. By borrowing through co-operative rural intermediate credit associations whose formation (with not less than twenty members and with certain defined objects) is provided for by the Act. The application for the loan is received and considered by the association concerned, which, on approving it, applies to the Corporation for its confirmation and for an advance to cover the loan. These loans are repayable on demand, but it has been the policy to arrange for the borrower to repay the amounts advanced in five equal yearly instalments. Extensions beyond that period may be approved in suitable cases. An association may, with the approval of the Corporation, arrange with a bank or other approved financial institution for a loan in cases where the term is not more than six months.

b. Persons engaged in farming on their own account, trustees, executors, or administrators carrying on farming operations, may obtain loans direct from the Corporation, the conditions being similar to (a) above.

During the twenty-five years from the inception of the Rural Intermediate Credit system up to 31 March 1953 advances exceeding £2,572,367 have been made.

At 28 February 1953 there were eight co-operative rural intermediate credit associations in operation. The loans authorized through this channel during the year 1952-53 amounted to £48,530, and there were 160 loans current at the end of the year for an aggregate amount of £67,988.

The interest fixed for advances other than to co-operative rural intermediate credit associations is 5 per cent per annum, except in the case of ex-servicemen eligible for rehabilitation assistance, where the interest rate is 4 per cent per annum (reduced to 2 per cent for the first year provided the loan conditions are fulfilled). In the case of loans to co-operative rural intermediate credit associations the rate charged is 4 per cent, so that associations may be in a position to make advances to their members at 5 per cent.

SALE OF STATE HOUSES.—In conformity with the Government's policy of encouraging private home ownership, State house tenants are given an opportunity to buy the houses they occupy.

In the case of tenants occupying State rental houses on or before 31 July 1950 the main sale terms are—

a. A minimum deposit of 5 per cent of the sale price.

b. A suspensory loan assessed at 10 per cent of the sale price, with a maximum of £200.

c. A repayment period up to forty years for the balance of the purchase money, together with interest, on an instalment-table basis.

d. An interest charge of 4½ per cent, reduced to 3 per cent while the conditions of sale are complied with.

e. Discount of 5 per cent for payments of purchase money in excess of the required instalments of sale, or in excess of the minimum deposit.

f. Repayment insurance benefits applicable to all cases where the wage-earner in the purchaser's family is under sixty years at the time of purchase.

g. If the purchaser wishes to resell the State house within seven years it must first be offered for sale back to the Crown.

The purchase terms available for new State houses occupied since 1 August 1950 are similar to the loan terms for persons erecting new houses (see pp. 802-803). They include—

a. Suspensory loans.

b. A minimum deposit of 10 per cent of the gross purchase price or the amount of the purchase money in excess of £2,000, whichever is the greater. Where, however, the financial position of the purchaser warrants, the Board of Management of the Corporation may accept a reduced deposit in such a case.

c. The balance of the purchase money, together with interest, payable over a period of years on an instalment-table basis.

d. Interest at 4½ per cent.

e. Provision for the property to be offered for sale to the Crown in the event of the purchaser wishing to resell within seven years.

From the inception of the sale of State rental houses up to 31 March 1953, the number sold to the tenants was 7,215, for a total sale price of £14,957,985.

33 C—BUILDING SOCIETIES

THE law relating to building societies incorporated in New Zealand is contained in the Building Societies Act 1908, which is a consolidation of earlier legislation, most of which had been operative since 1880. The Assistant Registrar of Companies in each district acts as Registrar of Building Societies. Rules, as well as subsequent alterations thereof, must be certified before registration as conforming to legal requirements—by a revising barrister appointed by the Governor-General for the purpose. No stamp duties are payable on documents made under the Act, or generally in respect of building society transactions.

Building societies are afforded all the powers and rights of an ordinary mortgagee, a description of which is contained in Section 33A—Mortgages. No reconveyance is needed to discharge a mortgage made under the Act, a receipt endorsed being a sufficient discharge for this purpose.

Authority was taken in the National Expenditure Adjustment Act 1932 to fix by Order in Council the maximum rate of interest payable on deposits with building societies. Maximum rates payable on these and other deposits fixed by subsequent Orders in Council are given on page 784.

Returns of each society's operations are furnished annually to the Census and Statistics Department.

A distinction is made between permanent and terminating societies. A permanent society is statutorily defined as one which has not by its rules any fixed date or specified result at which it shall terminate, and a terminating society as one which by its rules is to terminate at a fixed date, or when a result specified in its rules is attained. In practice a terminating society, or a group thereof, closes when every member so desiring has obtained a loan. There is a considerable difference between the two types of societies, the terminating society being a purely co-operative institution belonging to and managed by the members, proprietary interests being discouraged by placing a limit to the number of shares (usually ten) that any member may hold in any one group. There is, however, nothing to prevent a member from holding the maximum number of shares in more than one group. In a typical terminating society contributions are at the rate of 1s. per week per share, each share entitling a member in due course to £200 of loan, with a maximum, until recently, of £1,200. As £1,200 is not sufficient to meet the needs of the average prospective house owner on present-day costs, there is a tendency for the limit to be raised. In some groups of the terminating societies the loan maximum is now £2,000. It is these contributions, together with premiums on loans mentioned later, which make up the funds from which loans are made. Loans are made to members both by ballot and by auction, the latter going for the highest premium offered. Security is required for the loans, which are repaid, free of interest, in periods varying from ten to twenty years. The weekly payment of 1s. per share is continued, usually till the end of the group, but sometimes only until the total contributions paid in, plus profits, credited to the shareholder, equal the amount owing on the loan. The shareholder's credit balance is then transferred to interest is extinguish the loan. The profit of the society is distributed on loans sold by auction.

Permanent societies are more in the nature of finance companies, and, while both investors and borrowers must be members, the borrower is frequently merely a nominal member. Investments in a permanent society may be made in either large or small amounts. Capital may be raised by shares with a fixed rate of interest, or subject to dividends varying according to profits. As will be observed from the statistics which follow, terminating societies do not issue capital shares. Bonds, debentures, deposits, and overdraft are other methods of financing. The principal object of a permanent society is to lend money at a profit on land and buildings, either freehold or leasehold. Table mortgages are normally adopted, the usual term of repayment being up to twenty years. The statistics refer generally to years ending on 31 March.

NUMBER OF SOCIETIES AND SHARES.—The number of societies in existence in 1952-53 was 76, of which 55 were permanent and 21 terminating. The number of permanent societies has shown little variation during the last ten years, but terminating societies have decreased markedly.

Permanent Societies.—The following table shows for the years 1948-49 to 1952-53 particulars of the number of permanent societies, the numbers of shares (distinguishing investing shares from capital shares), and the number of members holding each type of share.

—	1948-49	1949-50	1950-51	1951-52	1952-53
Number of societies	56	56	56	56	55
Investing Shares					
Number of shares	393,213	437,204	486,777	541,625	564,495
Members holding	25,073	26,152	26,848	26,866	26,974
Aggregate value	£3,808,631	£4,629,338	£5,308,838	£5,891,834	£6,306,917
Capital Shares					
Number of shares	641,553	656,075	696,614	717,753	803,829

—	1948-49	1949-50	1950-51	1951-52	1952-53
Members holding	5,740	5,363	5,586	5,581	5,702
Aggregate value	£1,623,876	£1,653,272	£1,723,701	£1,768,028	£1,878,759

At March 1953 the average value of each investing share was £11 3s., and the average value of such shares held by each member was £233 16s. The comparative figures for capital shares were £2 7s. and £329 10s.

Terminating Societies.—Although the number of terminating societies has declined (no new societies having been registered for some years), the total membership and value of shares continue to grow. Measured by these criteria, the size of the average existing society has therefore increased greatly in recent years. As stated earlier, one person may hold shares in several groups of a terminating society. The next table shows the progress of terminating societies during the years 1948-49 to 1952-53. It should be noted that the information pertaining to shares relates to investing or contributory shares, there being no capital shares in a terminating society.

—	Societies	Groups	Members Holding Shares	Investing Shares	
				Number	Value
				£	£
1948-49	27	251	83,927	391,361	4,075,832
1949-50	25	264	99,150	462,349	4,793,996
1950-51	23	280	105,972	533,278	5,636,217
1951-52	23	296	116,832	602,434	6,666,897
1952-53	21	308	125,077	677,970	7,816,800

The average value per share in 1952-53 was £11 11s., and the average value of shares held per member was £62 10s. The figures for 1948-49 were, respectively, £10 8s. and £48 11s.

RECEIPTS AND PAYMENTS.—Following is a summary of receipts and payments for all societies during each of the five years 1948-49 to 1952-53.

—	1948-49	1949-50	1950-51	1951-52	1952-53
<i>Receipts</i>	£	£	£	£	£
Investors' subscriptions and capital shares	1,668,790	1,985,464	2,234,687	2,592,353	2,576,554
Advances repaid	1,764,508	1,869,886	2,446,639	2,992,179	2,727,918
Deposits	1,439,283	1,326,076	1,644,101	1,930,189	1,693,658
Interest	454,408	480,109	501,005	533,379	568,737
Other receipts	463,247	413,312	524,804	404,720	437,751
Total receipts	5,790,245	6,074,847	7,351,236	8,452,722	8,004,618
<i>Payments</i>	£	£	£	£	£
Withdrawals	486,172	549,998	587,486	622,391	668,359
Advances	3,062,746	3,301,907	4,282,778	4,883,840	4,497,502
Expenses of management	154,798	170,421	193,514	226,856	216,803
Dividends paid	82,283	84,196	94,409	102,782	105,030
Deposits repaid	1,489,349	1,406,250	1,598,962	1,964,475	1,920,322
Interest paid	120,411	136,367	150,805	177,029	185,536
Other payments	373,766	385,891	603,600	428,937	363,811
Total payments	5,769,525	6,035,030	7,511,554	8,406,310	7,957,363

During 1952-53, for the first time in a decade, a fall occurred in the receipts and payments of building societies, noticeable chiefly in the smaller volume of advances and deposits. Possibly the most important contributory factor to this fall has been the increase in building costs, which has tended to reduce the demand for loans. The ratio of loan repayments to advances was 86.1 in 1950-51, 61.3 in 1951-52, and 60.7 in 1952-53.

LOANS.—The number of borrowers and amount of loans outstanding at the end of each of the five years quoted were as follows.

Year	Permanent Societies		Terminating Societies		Total	
	Number	Amount	Number	Amount*	Number	Amount
		£		£		£
1948-49	15,129	10,367,892	9,071	4,593,314	24,200	14,961,206
1949-50	15,344	11,044,059	10,382	5,302,846	25,726	16,346,905
1950-51	15,577	11,842,984	11,145	6,311,292	26,722	18,154,276
1951-52	15,636	12,555,358	12,086	7,318,471	27,722	19,873,829
1952-53	15,212	12,926,305	12,736	8,606,400	27,948	21,532,705

* Includes balance owing on premiums on loans.

The average amount owing by each borrower at the end of each of the five years is given below.

Class	1948-49	1949-50	1950-51	1951-52	1952-53
	£	£	£	£	£
Permanent societies	685	720	760	803	850
Terminating societies	596	511	566	606	676
All societies	618	635	679	717	770

Particulars of loans granted during each of the years 1948-49 to 1952-53 follow.

Year	Permanent Societies		Terminating Societies				
			By Ballot		By Auction		
	Number	Amount	Number	Amount	Number	Amount	Premiums
		£		£		£	£
1948-49	2,697	1,911,717	749	507,610	962	613,196	229,347
1949-50	2,530	1,910,709	812	585,016	1,156	778,271	243,468
1950-51	3,141	2,567,611	870	688,323	1,625	1,007,267	341,424
1951-52	3,070	2,830,600	1,023	940,120	1,765	1,138,262	394,243
1952-53	2,303	2,087,025	803	869,764	1,272	377,623	433,947

The totals for loans in the above table represent loans granted and differ slightly from the figures shown as advances in the table relating to receipts and payments, where the amounts refer to payments actually made in respect of loans. Including the premiums (which represent total interest payments over the period of the loan), the average amount of loan was £817 in 1950-51, £905 in 1951-52, and £1,089 in 1952-53.

The tendency in recent years has been for premium rates to rise in sympathy with the longer average term for loan repayments. In 1952-53, however, the upward trend was checked, probably because of the discouraging effect of increased building costs, as mentioned previously. The average premium rates during the last three years were: 1950-51, £33.90 per cent; 1951-52, £34.64 per cent; and 1952-53, £31.50 per cent.

Commencing with the year 1937-38, statistics of building societies were extended to include a classification of loans into (1) loans granted to finance the erection of new dwellings, and (2) loans granted to finance the purchase of dwellings already built. For the purposes of the statistics new dwellings are deemed to include those which have been built by the borrower during the twelve months preceding the granting of the loan. Particulars for 1952-53, with totals for earlier years, are given in the following table.

—	To Finance the Erection of New Dwellings		To Finance the Purchase of Dwellings Already Built		For Other and Unspecified Purposes		Totals
	No.	Amount	No.	Amount	No.	Amount	No. Amount
Permanent societies	415	£ 543,916	1,023	£ 1,095,603	865	£ 447,506	2,303 £ 2,087,025
Terminating societies	—	—	—	—	—	—	—

	To Finance the Erection of New Dwellings		To Finance the Purchase of Dwellings Already Built		For Other and Unspecified Purposes		Totals	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount
By ballot	173	183,170	493	574,994	137	111,600	803	869,764
By auction	366	344,670	761	908,165	145	124,788	2,722	1,377,623
Totals, all societies—								
1953-54	950	1,469,113	2,651	2,927,217	1,296	861,378	4,877	5,003,008
1952-53	954	1,071,756	2,277	2,578,762	1,147	683,894	4,378	4,334,412
1951-52	1,054	1,123,629	3,100	2,891,570	1,704	893,783	5,858	4,908,982
1950-51	1,143	1,132,447	2,817	2,349,322	1,676	781,432	5,636	4,263,201
1949-50	1,029	1,016,560	1,897	1,570,567	1,572	686,869	4,498	3,273,996
1948-49	1,029	972,200	1,918	1,380,140	1,461	680,183	4,408	3,032,523

The considerable number of loans shown for other and unspecified purposes is partly due to the fact that some societies are unable to give the necessary classification, so that it may be taken that the foregoing table understates the number of loans actually granted for the erection or purchase of dwellings.

In 1950 the controls imposed on the purchase price of property by the Servicemen's Settlement and Land Sales Act were removed. The effect in the two years following is seen in the increased number of loans granted for the purchase of existing dwellings. As the figures for the last twelve months illustrate, the demand has not been maintained, prices of saleable properties generally having advanced in line with costs of construction.

LIABILITIES AND ASSETS.—The liabilities and assets of building societies for each of the years 1948-49 to 1952-53 are given in the next table.

LIABILITIES

Year	To Shareholders (Including Reserve Funds and Undivided Profits)		Deposits		Appropriations Not Taken Up, or in Trust		To Bankers and Other Creditors		Total Liabilities	
	£	£	£	£	£	£	£	£	£	£
1948-49	11,511,453	4,267,102	731,575	814,018	17,324,148					
1949-50	13,238,029	4,035,617	857,184	877,671	19,008,501					
1950-51	15,045,180	3,988,639	986,064	1,014,487	21,034,370					
1951-52	16,954,799	3,657,983	1,092,668	1,351,079	23,056,529					
1952-53	18,942,031	3,979,105	925,486	842,520	24,689,142					

ASSETS

Year	Advances on Mortgage*		Other Investments and Assets		Cash in Hand and at Bank		Total Assets	
	£	£	£	£	£	£	£	£
1948-49	15,719,485	1,311,679	292,984	17,324,148				
1949-50	17,244,136	1,462,543	301,822	19,008,501				
1950-51	19,214,055	1,619,049	201,266	21,034,370				
1951-52	21,119,623	1,740,064	196,842	23,056,529				
1952-53	22,735,885	1,767,416	185,841	24,689,142				

* Includes balance owing on premiums on loans.

The ratio of advances on mortgage to total assets has been at a uniformly high level during the last few years, the average figure since 1948-49 being 91.2 per cent.

33 D—JOINT-STOCK COMPANIES

FOR thirty years following the enactment of the Companies Act of 1903 no comprehensive revision of statute law relating to companies was made in New Zealand, and the essential provisions of company law remained substantially unaltered. In 1930 the Attorney-General appointed an advisory committee, including representatives of the business community and of the professions of law and accountancy, to act with the Law Draftman in framing a new measure, which, in the form of the Companies Act 1933, came into force on 1 April 1934. In great part the measure was an adaptation of the Imperial Act of 1929 to suit the special conditions of New Zealand.

A noteworthy step in the history of company legislation was taken by the Companies (Bondholders Incorporation) Act 1934-35, which provided machinery for the incorporation of the holders of bonds issued by certain afforestation and other companies.

The position of certain investment companies in 1934 led to the appointment of a Commission of Inquiry and the passing of a novel series of legislative enactments designed to investigate their affairs and to protect the investors. The Acts passed comprised the Companies (Special Investigations) Act 1934, the Companies (Special Liquidations) Act 1934-35 and the Companies (Temporary Receivership) Act 1935.

The Government set up a committee in 1950 which considered the question of revising the 1933 Act. A draft Bill was introduced during the 1952 session of Parliament, and amended during the 1953 session, but at the time of writing it has not yet become law.

A company to acquire legal entity must be incorporated, and under the Companies Act 1933 incorporation is granted after the registration of the memorandum of association with the Registrar of Companies. A company incorporated overseas is not required to re-register in New Zealand.

but must deliver to the Registrar of Companies for registration a certified copy of its instrument of constitution, as well as a list of its directors and the name of its authorized representative in New Zealand.

The Finance Emergency Regulations 1940 (No. 2), which replaced similar regulations issued in the same year, prohibited the registration of companies, building societies, etc., or the increase of capital of existing companies, without the prior consent of the Minister of Finance. Amending regulations issued on 22 May 1946 removed this restriction in so far as it related to the formation of a company where the nominal capital did not exceed £10,000, or to an increase of capital of an existing company where the amount of the increase together with the amounts of other increases made within one year before that increase did not exceed £10,000. To give more effective control over new finance, a Capital Issues Committee was set up in April 1952. Further reference to this Committee will be found on page 770.

The table following gives a classification of new companies registered in 1952 according to the amount of nominal capital.

Amount of Nominal Capital	Private Companies		Public Companies		Overseas Companies	
	Number	Nominal Capital	Number	Nominal Capital	Number	Nominal Capital
		£		£		£
Under £1,000	279	119,408	2	850		
£1,000 and under £2,000	351	423,022			1	1,000
£2,000 and under £3,000	301	662,580	1	2,000		
£3,000 and under £4,000	168	533,581	1	3,000		
£4,000 and under £5,000	104	433,745				
£5,000 and under £6,000	141	716,963	1	5,100		
£6,000 and under £7,000	73	446,600				
£7,000 and under £8,000	32	232,175				
£8,000 and under £9,000	24	194,095				
£9,000 and under £10,000	31	288,397	1	9,500		
£10,000 and under £15,000	120	1,269,679	7	72,500	3	30,000
£15,000 and under £20,000	25	410,250	2	30,000		
£20,000 and under £50,000	42	1,066,592	2	70,000	1	20,000
£50,000 and over	13	2,510,000	8	8,200,000	7	15,657,194
Limited by guarantee			3			
Totals	1,704	9,307,087	28	8,392,950	12	15,708,194

A falling off in the number of new registrations of private companies (see table on page 814) has been noticeable during the last two years, the decline being virtually restricted to those companies with authorized capitals of under £5,000. New registrations in this group were almost 20 per cent fewer in 1952 than in 1951.

The extent of changes in registrations and nominal capitals of private companies over the past decade expressed as percentages of the totals, is shown in the following table.

Amount of Nominal Capital	Number		Amount of Capital	
	1942	1952	1942	1952
	Per Cent	Per Cent	Per Cent	Per Cent
Under £1,000	30.5	16.4	4.0	1.3
£1,000 and under £5,000	48.9	54.2	26.5	22.1
£5,000 and under £10,000	13.2	17.7	22.4	20.1
£10,000 and over	7.4	11.7	47.1	56.5
Totals	100.0	100.0	100.0	100.0

Compiled from published sources, the following summary gives the stated objects of new companies registered during 1952. Because of possible inaccuracies in the source data, and the difficulty of precise classification by industrial group from the information available, the figures should be regarded as approximate only. The figures were compiled for the first time in 1951, but owing to changes in industrial classification comparison with that year is not feasible.

Industry Group	Number
Agriculture and livestock production	113
Forestry, hunting, and fishing	11
Mining and quarrying	22
Manufacturing—	
Food, beverages, and tobacco	36
Textiles, footwear, and apparel	67
Woodwork and furniture	83
Machinery	41
Transport equipment	114
Other	162
Construction	190
Commerce—	
Wholesale and retail	477
Banks and other financial institutions	67
Real estate	94
Other	8
Transport, storage, and communication	113
Services—	
Community and business	26
Personal	88
Other	10
Miscellaneous	22
Total	1,744

The effects of the restrictions placed on the formation of companies during the war period are reflected in the following table. A further notable feature is the increase in both the number and aggregate nominal capital of private companies registered since 1945. From 1946 to 1952 inclusive, the average number of private and public companies registered annually was 1,815, the corresponding capital average being £10,633,470, representing £5,308 of authorized capital per company.

Year	Private Companies		Public Companies		Overseas Companies	
	Number	Nominal Capital	Number	Nominal Capital	Number	Nominal Capital
		£		£		£
1942	190	676,897	7	154,500	1	130,000
1943	261	881,284	6	48,880	3	617,200
1944	451	1,408,216	13	82,000		
1945	720	3,196,541	18	114,000	3	72,100
1946	1,414	8,102,471	13	2,846,250	8	116,000
1947	1,781	6,203,885	23	2,257,000	9	428,650
1948	1,729	7,319,982	31	924,150	8	950,000
1949	2,123	6,626,329	24	832,300	10	523,600
1950	2,047	8,225,879	15	365,900	12	1,586,100
1951	1,978	9,205,507	28	2,824,600	14	777,360
1952	1,704	9,307,087	28	8,392,950	12	15,708,194

In comparing one year with another, as in the previous table, it should not be overlooked that re-registrations, on account of reconstruction of companies or for other reasons, are included. Such re-registrations of large companies may have a considerable effect on the year's total, so far as capital is concerned.

Companies Carrying on Business.—Statistics of companies carrying on business have been compiled on four occasions, for the years 1926, 1932, 1938, and 1947. For the two earlier years all companies appearing on the register at 31 December were included. In the 1938 and 1947 tabulations endeavours were made to eliminate those companies which were in liquidation or in a more or less moribund state. As there was often no positive evidence available to show whether or not a company was in active operation, the statistics probably include a small proportion of companies which were only nominally carrying on business.

A summary of the principal information available in respect of public and private companies at 31 December of the years shown is given below.

At 31 December	Number	Nominal Capital	Subscribed Capital	Paid-up Capital	Amount Owing Under Charges	Shareholders' Funds
		£	£	£	£	£
<i>Private Companies</i>						
1926	3,439	36,060,343	"	"	"	"
1932	6,083	48,363,106	"	"	"	"
1938	7,399	55,793,621	"	49,270,544	20,460,066	"
1947	11,358	87,044,475	"	77,814,585	25,909,668	"
<i>Public Companies</i>						
1926	1,630	89,544,858	58,807,519	49,982,593		16,181,126
1932	1,732	97,553,578	71,021,736	59,106,902		15,453,164
1938	1,626	100,172,978	73,170,411	64,932,446		17,477,939
1947	1,381	106,358,590	81,543,539	73,203,337	16,426,440	113,065,633
* Not available.						

The main feature disclosed by the figures is the tendency in later years to obtain registration as a private company rather than as a public company. In 1926 there were twice as many private companies as public companies, but in 1947 there were nine private companies for each public company. From 1939 to 1947 inclusive 6,080 private and 136 public companies were registered.

The increases in capital do not necessarily measure the amount of new capital invested, since many registrations of new companies represent the conversion of previously existing individual or partnership concerns into companies, or the re-forming of a company of the liquidation of the existing company and the registration of a new one.

In addition to the public and private companies covered above, there were 250 overseas companies operating in New Zealand at 31 December 1947, compared with 212 in 1938. These had a total nominal capital of £224,807,042 (the corresponding 1938 figure was £195,934,469), but there is no information showing the amount of capital employed in New Zealand, which obviously must be only a very small proportion of the amount shown.

Data for private and public companies are given next, classified according to the amount of the nominal capital at 31 December 1947.

Amount of Nominal Capital	Private Companies			
	Number	Paid-up Capital	Amount Owing Under Charges	
		£	£	
Under £1,000	2,032	875,086		1,325,184
£1,000 and under £5,000	5,740	11,129,899		5,883,474
£5,000 and under £10,000	1,785	9,938,839		4,694,460
£10,000 and over	1,801	53,870,761		14,006,550
Totals	11,358	77,814,585		25,909,668

Amount of Nominal Capital	Public Companies			
	Number	Paid-up Capital	Amount Owing Under Charges	Shareholders' Funds
		£	£	£
Under £5,000	307	387,698	222,287	913,778
£5,000 and under £20,000	427	3,419,730	1,207,923	5,426,812
£20,000 and under £50,000	249	5,899,554	2,152,938	8,623,570
£50,000 and over	378	63,496,355	12,843,292	98,101,473
Totals	1,381	73,203,337	16,426,440	113,0,633

The table following shows the industry grouping of the companies functioning at 31 December 1947, based on the United Nations' classification of industries. A strictly accurate classification of type of business was not practicable, since the memorandum of association usually empowered the company to carry out a great diversity of objects, and also in many cases companies carried on more than one type of business. The main object or principal activity was therefore used for classification purposes, being checked as far as possible from other sources, and the figures given are considered to be sufficiently approximate to be useful.

Industry Group	Private Companies			Public Companies		
	Number	Paid-up Capital	Amount Owing Under Charges	Number	Paid-up Capital	Amount Owing Under Charges
		£	£		£	£
Agriculture and livestock production	336	2,758,400	1,524,394	11	269,909	31,632
Forestry, hunting, and fishing	247	1,515,651	590,770	29	7,923,179	78,235
Mining and quarrying	135	771,883	292,877	75	3,324,641	240,335
Manufacturing	3,172	26,608,685	7,592,949	581	26,299,074	6,567,469
Construction	651	2,033,328	1,232,456	5	100,804	34,891
Electricity, water, gas, and sanitary services	4	37,500	40,000	18	1,722,927	922,085
Commerce	5,435	37,244,527	12,235,884	476	26,658,903	7,543,410
Transport, storage, and communication	619	2,550,863	923,880	99	5,947,169	274,190
Community services	758	4,291,748	1,476,458	86	935,067	721,443
Other	1	2,000		1	21,664	12,750
Totals	11,358	77,814,585	25,909,668	1,381	73,203,337	16,426,440

Chapter 34. SECTION 34—INSURANCE

Table of Contents

- [34 A—LIFE ASSURANCE](#)
- [34 B—ACCIDENT INSURANCE](#)
- [34 C—FIRE INSURANCE](#)
- [34 D—STATE INSURANCE ACTIVITIES](#)

34 A—LIFE ASSURANCE

THE statutory provisions affecting life assurance in New Zealand are in the main contained in the Life Insurance Act 1908 and its amendments of 1920, 1921–22, 1925, 1932, 1934, 1938, and 1950; the Inalienable Life Annuities Act 1910; and the Government Life Insurance Act 1953. Any association other than a friendly society which issues policies or grants annuities on human life in New Zealand comes within the scope of the enactments. Every life company must deposit with the Public Trustee money or securities of the statutory character to the value of from £5,000 to £50,000, varying within these limits according to the total amount assured by policies current in its New Zealand business. The aggregate value of such deposits at 31 March 1953 was £730,750.

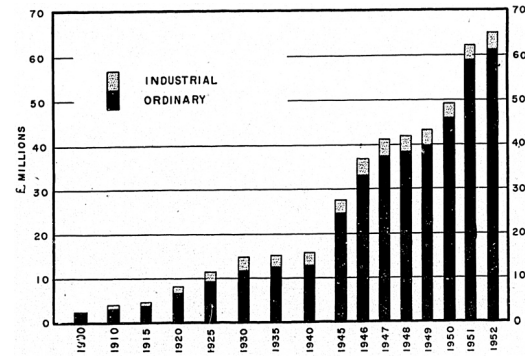
In the case of composite offices, provision is made for the receipts of life and annuity business to be treated as a separate fund, and the Act safeguards the interest of the policyholder by making these funds available only for liabilities arising from such business.

Annual returns of life assurance are required to be deposited with the Minister of Finance, and it is from these returns that the statistical matter contained in this subsection has been compiled.

Fifteen life-assurance offices conduct business in New Zealand, and of these, four only are purely New Zealand institutions—namely, the Government Life Insurance Office, the Provident Life Assurance Co., the Dominion Life Assurance Office of New Zealand, Ltd., the F.A.M.E. Insurance Co., Ltd.

The statistics here given relate exclusively to business transacted in New Zealand.

LIFE ASSURANCE: Ordinary and Industrial.—The progress of life assurance in New Zealand is illustrated by the following diagram, which shows the amount of new business transacted at intervals over a period of fifty-two years.



Eleven years' figures for new business, discontinuances, and amount in force for the combined departments (ordinary and industrial) are given in the table following.

Year	Policies Issued	Policies Discontinued	Policies Existing at End of Year
	£	£	£
1942	14,587,951	8,035,532	193,758,979
1943	17,574,059	6,779,764	204,192,428
1944	22,115,999	7,284,723	219,023,704
1945	27,870,468	8,298,596	238,595,576
1946	37,085,495	9,828,464	265,852,607
1947	41,368,218	10,897,884	296,322,941
1948	42,022,872	13,405,210	324,940,603
1949	43,242,856	14,730,369	353,453,090
1950	49,342,773	15,573,344	387,216,172
1951	62,320,240	16,530,514	433,012,365
1952	65,154,710	19,149,533	479,083,831

During the ten year period covered by the table the amount in force has increased by £285,324,852, or 147 per cent.

War conditions generally, including smaller numbers of the companies' field representatives and the transfer of large numbers of men of the predominantly insurable ages to the Armed Forces were evidently the major factors determining the lower levels of new business during the war years. Subsequently, the return of men to civilian life and the increases in private incomes created a situation favourable to a large expansion in the amount of new business. Since 1942 there has been an uninterrupted increase in the face value of new policies written, culminating in a spectacular gain of almost £13,000,000 during 1951. The relatively modest increase of under £3,000,000 in 1952 probably indicates a return to more normal conditions in the life insurance field.

As the total discontinuances include surrenders and lapses, the general tendency is for discontinuances to follow the same trend as new business, although there is naturally a time lag of, normally, about two years. This trend is plainly apparent, although the increase in discontinuances has been relatively slight when the record figures of new business are taken into account.

ORDINARY LIFE ASSURANCE: Progress of Business.—A table showing the progress of business over a period of eleven years is given below. Annuities are excluded from these figures.

Year	Policies Issued			Policies Discontinued			Policies Existing at End of Year		
	Number	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums
		£	£		£	£		£	£
1942	24,886	12,143,512	387,536	16,236	6,378,095	215,214	428,982	169,239,322	5,177,954
1943	28,629	15,018,060	518,935	14,230	5,469,650	179,622	443,381	178,426,886	5,517,267
1944	35,335	19,252,364	655,424	14,809	5,813,624	205,979	463,907	191,865,626	5,966,713
1945	44,215	24,877,652	823,512	15,675	6,671,405	244,020	492,447	210,071,873	6,546,205
1946	57,724	33,383,578	1,088,168	16,927	8,006,535	287,942	533,244	235,448,916	7,346,430
1947	60,810	37,517,115	1,237,247	18,393	8,978,114	326,449	575,661	263,987,917	8,257,228
1948	60,516	38,472,056	1,230,168	21,037	11,111,245	395,311	615,140	291,348,728	9,092,085
1949	58,687	39,935,855	1,290,333	22,755	12,337,166	441,251	651,072	318,947,417	9,941,343
1950	60,742	46,093,248	1,464,379	23,359	13,362,093	469,780	688,444	351,672,226	10,935,757
1951	67,544	59,073,820	1,929,439	24,078	14,332,947	497,600	731,914	396,419,565	12,367,888
1952	70,663	61,411,015	1,882,378	25,504	16,679,264	577,563	777,180	441,210,401	13,674,396

The average annual premium for each £100 of new business effected during 1952 was £3 1s. 4d., as compared with £3 5s. 4d. in 1951. The tendency toward lower premium rates has been evident for some years past. This may indicate a growing preference for whole life policies or longer term endowment assurance. Group assurance, as a substitute for, or supplementation of, private or national superannuation schemes, has also assumed relative popularity, but owing to lack of data, it is unfortunately not possible to give an analysis of policies by types.

A prominent feature of new insurances of recent years has been, with the exception of 1952, the increase in the average amount of the sum assured per policy. Average amounts per new policy and the increases over the preceding year were as follows.

Year	Average Amount		Increase
	£	¢	
1942	488	41	
1943	526	38	
1944	545	19	
1945	563	18	
1946	578	15	
1947	617	39	
1948	636	19	
1949	680	44	
1950	759	79	
1951	875	116	
1952	869	-6*	

* Decrease.

From the foregoing figures it will be seen that the average sum assured per policy has increased by £381, or 78 per cent, during the ten year period. The small decrease recorded in 1952 was the first since 1935.

From 1938 to 1943 discontinuances became progressively less, the heavy mortality in the war years being more than compensated for by the smaller number of lapses and surrenders. The years 1944 to 1952, however, showed the increased discontinuances which normally follow substantial rises in new policy issues.

The total amount written off during each of the last five years represents about 4 per cent of the amount in force at the end of the year immediately preceding.

Particulars of Policies Discontinued.—The causes of discontinuances during the last five years are contained in the next table.

Year	Death	Maturity	Surrender	Lapse	Other Causes	Totals
<i>Number of Policies</i>						
1948	3,156	5,547	6,203	5,921	210	21,037
1949	3,169	6,113	7,142	5,772	559	22,755
1950	3,152	6,532	8,073	5,012	590	23,359
1951	3,484	7,151	8,181	4,803	459	24,078
1952	3,701	7,193	8,818	5,083	709	25,504
<i>Sum Assured</i>						
£	£	£	£	£	£	£
1948	1,635,042	1,499,185	3,745,043	2,804,887	1,427,088	11,111,245
1949	1,618,668	1,626,399	4,608,910	3,072,734	1,410,455	12,337,166
1950	1,677,537	1,676,051	5,618,250	2,712,352	1,677,930	13,362,093
1951	1,839,646	1,804,647	6,090,476	2,967,476	1,630,702	14,332,947
1952	1,966,997	1,912,038	7,305,123	3,626,021	1,869,085	16,679,264

Reducing the sums assured in the previous table to a percentage basis, the results are as follows.

Year	Death	Maturity	Surrender	Lapse	Other Causes	Totals
<i>Per Cent</i>						
1948	14.7	13.5	33.7	25.3	12.8	100.0
1949	13.1	13.2	37.4	24.9	11.4	100.0
1950	12.6	12.5	42.0	20.3	12.6	100.0
1951	12.8	12.6	42.5	20.7	11.4	100.0
1952	11.8	11.5	43.8	21.7	11.2	100.0

While discontinuances from death, maturity and lapse have fallen steadily, the proportion of surrenders has increased considerably in recent years, having risen from 27 per cent in 1945 to 43.8 per cent in 1952.

Revenue and Expenditure.—A statement of the aggregate revenue and expenditure of all the companies operating in New Zealand, so far as ordinary business is concerned, further illustrates the course of business during the last five years. The ratios of management expenses to premium income and to total revenue are also given.

Year	Revenue and Expenditure			Expenses of Management		
	Total Revenue	Total Expenditure	Excess of Revenue	Amount	Proportion to Premium Income	Proportion to Total Revenue
	£	£	£	£	Per Cent	Per Cent
1948	12,131,352	6,381,316	5,750,036	1,356,632	14.67	11.18
1949	13,105,579	6,736,450	6,369,129	1,444,511	14.33	11.02
1950	14,471,621	7,240,261	7,231,360	1,602,430	14.41	11.07
1951	16,306,718	7,993,904	8,312,814	1,942,990	15.49	11.92
1952	17,755,189	8,602,738	9,152,451	2,045,713	14.88	11.52

* Excluding transfers from or to head offices and branches.

Excluding commission the ratio of management expenses to premium income was 6.95, 7.1, 7.0, 7.4, and 7.5 per cent respectively for the years 1948 to 1952 inclusive.

The next table gives particulars of the principal items of revenue and expenditure during the same five years. Transfers between head offices and branches are again excluded.

—	1948	1949	1950	1951	1952
<i>Revenue</i>					
New and renewal premiums	9,245,454	10,079,289	11,123,783	12,543,676	13,749,578
Consideration for annuities	95,021	72,442	66,795	112,152	81,088
Interest, rents, etc.	2,787,401	2,952,722	3,274,878	3,647,714	3,923,251
Other revenue	3,476	1,126	6,165	3,176	1,272
Totals, revenue	12,131,352	13,105,579	14,471,621	16,306,718	17,755,189
<i>Expenditure</i>					
Claims by death and maturity	2,955,708	4,120,650	4,346,300	4,633,842	4,879,461
Annuities	111,323	117,161	119,173	122,390	124,168
Surrenders	440,382	526,669	613,489	662,668	823,692
Cash bonuses	28,383	23,083	29,436	28,262	31,987
Management	1,356,632	1,444,511	1,602,430	1,942,990	2,045,713
Taxes	419,542	438,090	469,581	480,339	534,533
Other expenditure	69,346	61,286	59,852	123,413	163,184
Totals, expenditure	6,381,316	6,736,450	7,240,261	7,993,904	8,602,738

INDUSTRIAL ASSURANCE: Progress of Business.—In this class of insurance the premiums are payable at shorter intervals than three months, and provision is made for its control by regulation. Companies are required to deposit with the Minister of Finance forms of policy tables, rates of premiums, and other documents, and policies must contain only such conditions as have been approved by the Governor-General in Council. Restrictions are placed on the forfeiture of policies in default of payments or other requirements. The sums assured by new industrial policies commenced to decline in 1938 and reached the lowest point in 1942. The subsequent upward trend culminated in a peak increase of £700,000 (24 per cent) for the year 1946, as compared with 1945. In 1947 only a small increase was recorded and in each of the subsequent four years a decrease occurred. The decline was arrested in 1952, the number and face value of new policies issued being 5.4 and 15.3 per cent respectively greater than in the previous year. Nevertheless, there has been a long-term downward trend in numbers of new industrial issues, both absolutely and relatively to ordinary policies. The numbers of new industrial policies for each thousand ordinary policies issued have been—

1920-29	1,885
1930-39	1,630
1940-49	1,003
1948	585
1949	576
1950	522
1951	442
1952	446

The results in more recent years, however, probably overemphasize the relative decline, since there is undoubtedly a tendency during more prosperous periods to select the ordinary policy in preference to the industrial policy.

A summary of the progress of industrial assurance business is given in the following table.

Year	Policies Issued	Policies Discontinued	Policies Existing at End of Year
------	-----------------	-----------------------	----------------------------------

Year	Number	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums
		£	£	£	£	£	£	£	£
1942	42,498	2,444,439	141,046	29,386	1,657,437	102,221	492,845	24,519,657	1,419,306
1943	41,685	2,555,999	146,271	23,958	1,310,114	81,467	510,572	25,765,542	1,484,110
1944	43,876	2,863,635	162,352	26,379	1,471,099	90,006	528,069	27,158,078	1,556,455
1945	43,353	2,992,816	170,214	28,057	1,627,191	101,659	543,365	28,523,703	1,625,010
1946	49,369	3,701,917	201,804	30,395	1,821,929	109,271	562,339	30,403,691	1,717,542
1947	43,789	3,851,103	184,138	30,790	1,919,770	112,080	575,338	32,335,024	1,789,600
1948	35,406	3,550,816	155,552	33,770	2,293,965	126,523	576,974	33,591,875	1,818,629
1949	33,815	3,307,001	152,851	36,153	2,393,204	132,427	574,636	34,505,673	1,839,055
1950	31,714	3,249,525	150,468	33,740	2,211,251	124,142	572,610	35,543,946	1,865,381
1951	29,879	3,246,420	150,021	33,058	2,197,567	123,783	569,431	36,592,800	1,891,619
1952	31,497	3,743,695	173,359	36,586	2,470,269	138,033	564,418	37,873,430	1,927,282

The average sum assured under each policy of new business effected in 1952 amounted to £119, with an average annual premium of £5 0s. 10d. Corresponding averages for five years earlier (1947) were £88 and £4 4s. 2d., and for ten years earlier (1942) £58 and £3 6s. 11d.

Particulars of Policies Discontinued.—A summary of the number of industrial policies and the sums assured written off according to the several causes is now given in the form of a five-year table.

Year	Death	Maturity	Surrender	Lapse	Other Causes	Totals
<i>Number of Policies</i>						
1948	2,820	16,618	3,728	10,430	174	33,770
1949	2,686	19,248	4,021	10,121	77	36,153
1950	2,573	19,590	4,055	7,316	206	33,740
1951	2,551	19,080	3,934	7,356	137	33,058
1952	2,591	21,735	4,317	7,837	106	36,586
<i>Sum Assured</i>						
£	£	£	£	£	£	£
1948	1,212,609	764,632	379,453	1,008,613	19,998	2,293,965
1949	1,234,454	869,164	313,767	1,073,471	13,348	2,393,204
1950	1,166,407	868,557	331,290	870,862	24,135	2,211,251
1951	1,158,444	805,510	368,333	883,369	24,511	2,197,567
1952	1,241,116	915,376	460,902	962,078	7,797	2,470,269

The amount written off in each year is proportionately greater in the industrial than in the ordinary branch. Of the insurance in force at the end of the previous year, 4.2 per cent of the ordinary became void in 1952, as compared with 8.8 of the industrial.

In the following table the sums assured for the various classes of discontinuances are expressed as percentages of the total discontinuances.

Year	Death	Maturity	Surrender	Lapse	Other Causes	Totals
<i>Per Cent</i>						
1948	5.3	33.3	16.5	44.0	0.9	100.0
1949	5.2	36.3	13.1	44.8	0.6	100.0
1950	5.2	39.3	15.0	39.4	1.1	100.0
1951	5.3	36.7	16.8	40.2	1.0	100.0
1952	5.0	37.1	18.7	38.9	0.3	100.0

Revenue and Expenditure.—A statement of the aggregate revenue and expenditure for the last five years is contained in the next table, which shows also the ratio of management expenses to premium income and to total revenue.

Year	Revenue and Expenditure			Expenses of Management		
	Total Revenue	Total Expenditure	Excess of Revenue	Amount	Proportion to Premium Income	Proportion to Total Revenue
	£	£	£	£	Per Cent	Per Cent
1948	2,251,035	1,612,678	638,357	481,932	26.76	21.41
1949	2,276,133	1,753,209	522,924	498,024	27.40	21.88
1950	2,315,149	1,778,442	536,707	507,556	27.56	21.92
1951	2,381,508	1,711,513	669,995	529,325	28.14	22.23
1952	2,439,165	1,888,718	550,447	555,669	29.15	22.78

* Excluding transfers from or to head offices and branches.

The higher ratio of management expenses to premium income in the industrial branch is largely accounted for by the cost of collection of premiums, principally in the shape of renewal commission. In the ordinary branch, commission (new and renewal) in 1952 was equivalent to 7.8 per cent of the premium income, and in the industrial branch to 13.8 per cent. Excluding commission, the ratio of management expenses to premium income was 15.3 per cent in the industrial branch, as against 7.5 per cent in the ordinary.

The principal items of revenue and expenditure in the industrial branch (again excluding transfers between head office and branches) for the five years 1948-52 are now given.

—	1948	1949	1950	1951	1952
<i>Revenue</i>					
Premiums	1,801,216	1,817,279	1,841,755	1,880,862	1,906,200
Interest, rents, etc.	449,077	458,104	472,748	499,967	531,360
Other revenue	742	750	646	679	1,605
Totals, revenue	2,251,035	2,276,133	2,315,149	2,381,508	2,439,165
<i>Expenditure</i>					
Claims by death and maturity	1,016,653	1,134,863	1,127,798	1,045,341	1,170,847
Surrenders	64,705	69,809	72,688	73,968	83,207
Management	481,932	498,024	507,556	529,325	555,669
Taxes	40,116	42,650	45,728	46,133	51,134
Other expenditure	9,272	7,863	24,672	16,746	27,861
Totals, expenditure	1,612,678	1,753,209	1,778,442	1,711,513	1,888,718

LIFE ASSURANCE DEATH RATES.—The following table shows for the period 1942-52 the death rate per thousand policies exposed to risk in each year. In computing these rates all policies which were in force for any portion of the year have been taken into account. The higher rates for the 1942-46 years are mainly due to deaths from war causes.

Year	Death Rate Per 1,000 Policies		
	Ordinary Life Assurance	Industrial Life Assurance	Ordinary and Industrial Combined
1942	9.74	6.97	8.24
1943	8.76	6.72	7.66

Year	Death Rate Per 1,000 Policies		
	Ordinary Life Assurance	Industrial Life Assurance	Ordinary and Industrial Combined
1944	8.53	6.12	7.24
1945	7.43	6.02	6.69
1946	6.05	5.29	5.66
1947	5.04	4.62	4.83
1948	4.94	4.62	4.78
1949	4.70	4.40	4.56
1950	4.44	4.24	4.35
1951	4.61	4.23	4.44
1952	4.61	4.31	4.48

LIABILITIES AND ASSETS.—Of the five companies transacting industrial business in New Zealand only one apportions its liabilities and assets over the ordinary and industrial business, for, although the legislation in force requires separate statements of revenue and expenditure, policies issued and discontinued, etc., no such requirement exists in regard to balance sheets. The figures presented in the next two tables accordingly refer to both classes of assurance, and, as indicated earlier in this subsection, relate to New Zealand business only.

The aggregate capital and liabilities at the end of 1952, as compared with the two preceding years, are given in the following table.

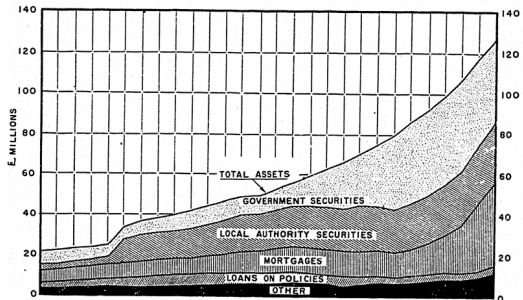
	1950	1951	1952
	£	£	£
Paid-up share capital	236,421	236,058	235,286
Life assurance and annuity funds	103,900,904	112,898,511	123,295,162
Depreciation, reserve, and other special funds	1,307,448	1,380,799	1,511,903
Claims admitted but not paid	754,097	829,002	816,167
Other liabilities	1,744,825	2,001,176	1,086,434
Totals	107,943,695	117,345,546	126,944,952

The assets of the New Zealand branches at the end of each of the three years 1950–52 were as follows.

Assets	Amount			Proportion to Totals		
	1950	1951	1952	1950	1951	1952
	£	£	£	Per Cent	Per Cent	Per Cent
Mortgages on property	23,436,153	32,926,888	40,685,753	21.71	28.06	32.05
Loans on policies	3,607,654	3,630,548	4,026,948	3.34	3.09	3.17
New Zealand Government securities	43,340,622	41,006,050	39,155,895	40.15	34.95	30.84
Securities of other Governments	2,308,011	1,812,590	1,860,016	2.14	1.54	1.47
Local authority securities	26,903,777	28,787,510	29,661,291	24.92	24.53	23.37
Landed and house property	2,702,309	3,009,842	3,018,430	2.50	2.57	2.38
Other investments	2,317,026	2,292,208	3,638,162	2.15	1.95	2.87
Outstanding premiums	640,987	809,034	856,621	0.59	0.69	0.67
Interest accrued, etc.	914,002	959,280	1,035,174	0.85	0.82	0.82
Cash	684,840	805,872	1,299,662	0.64	0.69	1.02
Other assets	1,088,314	1,305,724	1,707,000	1.01	1.11	1.34
Totals	107,943,695	117,345,546	126,944,952	100.00	100.00	100.00

The 1952 figures show a further large increase in the amount invested in mortgage securities. Compared with 1950 the figure has risen by £17,249,600, or 73.6 per cent. It is worth noting that "other investments" (chiefly company shares and debentures) increased by 59 per cent over 1951.

The following diagram illustrates the expansion that has taken place since 1925 in the assets of life-accident insurance companies operating in New Zealand. This, of course, is a natural consequence of the huge increase in the amount of business. As stated previously, receipts of life assurance and annuity business must be treated as a separate fund, and the interests of the policy-holders are safeguarded by the fact that these funds are available only for liabilities arising from such business.



The diagram also shows the trend in the class of security in which the funds have been invested. There has been some change in recent years in the proportions represented by the different securities. In 1942 local authority securities represented 33.2 per cent; loans on mortgage, 19.9 per cent; Government securities, 29.5 per cent; and loans on policies, 7.7 per cent of the total assets. In 1952 the corresponding percentages were: local authority securities, 23.4 per cent; loans on mortgage, 32.1 per cent; Government securities, 32.3 per cent; and loans on policies, 3.2 per cent.

34 B—ACCIDENT INSURANCE

IN terms of the Accident Insurance Companies Act 1908, accident-insurance policies may be issued by any association, whether incorporated or not, provided such association is not established under any Act relating to friendly societies. The principal classes of accident insurance transacted in New Zealand are as follows:

1. Personal accident, covering accident, sickness, etc.;
2. Employers' liability under statutory or common law;
3. Motor-vehicle insurance, comprehensive and compulsory third-party risks cover.

Other important classes of accident-insurance policies are in respect of plate-glass insurance and fidelity-guarantee insurance.

The Workers' Compensation Amendment Act 1947 provided for the insurance with the Government Accident Insurance Branch of the State Fire Insurance Office of all employers' liability insurances as from 1 April 1949. However, insurances with certain specified mutual insurance companies were exempted from the operation of the Act. Further reference to this transfer will be found in Sections 34D and 42. An amending Act of 1950, however, restored the right of insurance companies to undertake employers' liability insurance as from 1 April 1951.

In these statistics the date relate to the financial years of the companies which most closely approximate the calendar year. As the balance dates of some companies fall after 31 March, the 1948 and 1950 figures were affected to a small extent by the operation of the Act referred to in the preceding paragraph. The net effect was a reduction in the employers' liability insurance figures for 1948 by the amounts normally returned by such companies (with balance dates from April to June 1949), and an increase for the year 1950, when these returns (covering the years ended April to June 1951) again included figures for this class of insurance. 1951 may be regarded as a normal year.

Information relating to cash deposits required from companies transacting accident-insurance business is contained in the next subsection, which deals with the cognate subject of fire insurance.

REVENUE AND EXPENDITURE.—The number of insurance offices transacting accident business in New Zealand in 1952 was 61, the head offices of the companies concerned being designated as follows: Great Britain, 23; Australia, 11; United States of America, 1; Hong Kong, 1; and New Zealand, 25.

Of the New Zealand offices only 10, including the State Accident Insurance Office, may be stated to be competitive in the ordinary sense of the term, the remainder having been formed by trade associations, etc., on a more or less co-operative basis. In the main an office of this latter type conducts one class of accident-insurance business only according to the nature of the association with which it is connected.

Premium receipts have risen in each succeeding year since 1942. The 1952 increase was £1,340,470, or 20.2 per cent, above the 1951 figure. Approximately 80 per cent of the increase is accounted for by motor-vehicle premiums, largely on comprehensive policies. Claims in 1952 were £929,884, or 23.5 per cent, greater than in 1951, motor-vehicle claims being again responsible for the major part of the increase. Expenses other than claims totalled £2,053,664 in 1952, of which taxation amounted to £262,948. The excess of premium receipts over total expenditure was £762,727 in 1952, £564,568 in 1951, and £606,035 in 1950.

The following table shows, for the years quoted, the principal items of revenue and expenditure.

Year	Number of Offices	Revenue			Expenditure				
		Premiums	Other Revenue	Total*	Claims	Commission	Salaries/Other Expenses	Total*	
		£	£	£	£	£	£	£	
1942	58	2,280,671	110,444	2,391,115	1,093,874	242,175	244,135	484,806	2,064,990
1943	58	2,578,169	101,822	2,679,991	1,307,259	253,610	254,187	476,709	2,291,765
1944	59	2,614,588	103,429	2,718,017	1,348,519	275,529	281,514	529,748	2,452,307
1945	60	2,851,503	109,897	2,961,400	1,545,468	311,405	315,110	480,480	2,652,463
1946	60	3,270,989	107,634	3,378,623	1,666,256	349,778	359,236	466,294	2,841,564
1947	61	3,916,468	120,820	4,037,288	2,131,992	420,013	402,918	505,926	3,460,849
1948	60	4,324,436	146,886	4,471,322	2,509,563	471,459	432,264	571,444	3,984,730
1949	61	4,902,454	151,947	5,054,401	2,972,171	325,600	530,221	667,188	4,495,180
1950	62	5,816,553	170,746	5,987,299	3,466,073	369,181	593,632	781,632	5,210,518
1951	62	6,624,869	205,613	6,830,482	3,956,106	499,640	745,270	859,285	6,060,301
1952	61	7,965,339	221,165	8,186,504	4,886,000	617,067	814,951	884,594	7,202,612

* Excluding unexpired risks reserves.

A review of the expenses incurred in transacting accident insurance is contained in the table following. The fluctuations over a period of five years are shown in the form of percentages of revenue to expenditure under various heads.

Year	Ratio Per Cent of—					
	Claims to Premiums	Commission to Premiums	Salaries to Premiums	Other Expenses to Premiums	Total Expenses (Other Than Claims) to Premiums	Total Expenditure to Total Revenue
1948	58.03	10.92	10.00	13.21	34.11	89.12
1949	60.63	6.64	10.82	13.61	31.07	88.94
1950	59.59	6.35	10.21	13.44	30.00	87.03
1951	59.72	7.54	11.25	12.97	31.76	88.72
1952	61.34	7.75	10.23	11.11	29.08	87.98

The ratio of claims to premiums receded each year from a peak of 67.23 per cent in 1937 to 47.96 per cent in 1942, the latter figure being the lowest recorded since 1921. From 1943 the movement has been generally upward, the fall in 1946 being due to the fact that premiums increased to a much greater extent than claims, the only class to show an actual drop in claims being employers' liability. The fall in the ratio of commissions to premiums during 1949 and 1950 reflects the temporary transfer to the State Office of this type of business. Working expenses (excluding taxation) amounted to £1,297,047 in 1950, £1,694,322 in 1951, and £2,053,664 in 1952. The ratio of working expenses to premium income for each of the three years was respectively 22.30, 25.58, and 25.78 per cent.

ANALYSIS OF PREMIUMS AND CLAIMS.—In the next table particulars of premiums and claims for the three main classes of accident insurance are given for the last five years. It will be noticed that there is an apparent discrepancy between the totals of premiums and claims as shown herein and the figures already quoted. This is accounted for by the fact that, in order to arrive at the net financial results of the year's operations, it is necessary to take into account reinsurance transactions, and up to this stage premiums and claims have been taken at the net figure. Reinsurances effected outside New Zealand are not taken into account in the figures presented below.

Year	Employers' Liability	Personal Accident	Motor Vehicle (Including Third Party)	Other Forms	Totals		
					Premiums	Claims	Totals
	£	£	£	£	£	£	
1948	1,704,394	351,773	1,940,641	395,971	4,392,779		
1949	1,795,073	405,569	2,293,753	454,828	4,949,223		
1950	2,230,293	461,864	2,692,157	592,593	5,886,599		
1951	2,210,700	507,954	3,304,788	691,831	6,715,273		
1952	2,469,139	581,029	4,364,686	773,109	8,187,963		
	£	£	£	£	£	£	
1948	946,334	125,491	1,267,953	96,937	2,436,715		
1949	1,188,910	150,390	1,454,561	108,013	2,901,874		
1950	1,318,923	146,716	1,637,594	185,123	3,278,356		
1951	1,160,540	185,626	2,336,624	208,841	3,891,631		
1952	1,381,906	215,840	2,927,200	237,359	4,762,305		

The transfer of employers' liability insurance to the Government Accident Insurance Office, referred to at the beginning of this subsection, has affected the figures for this type of insurance. It is estimated that the premiums and claims for 1948 would have been respectively £140,000 and £75,000 greater than the amount shown if this year had been a normal one, and that the premiums and claims figures for 1950 would have been less by approximately £200,000 and £15,000.

Reducing the figures of each class for the years 1950–52 to a percentage basis, the following results are obtained.

Class of Insurance	Claims to Premiums			Premiums to Total Premiums			Claims to Total Claims		
	1950	1951	1952	1950	1951	1952	1950	1951	1952
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
Employers' liability	59.14	52.50	55.97	37.89	32.93	30.16	40.23	29.82	29.02
Personal accident and sickness	31.77	36.54	37.15	7.85	7.57	7.10	4.47	4.77	4.53
Motor vehicle comprehensive	64.07	72.67	68.99	32.58	37.13	40.80	37.49	46.58	48.40
Motor vehicle third-party risks	58.29	64.65	60.79	11.61	12.07	12.50	12.16	13.46	13.07
Other	31.24	30.19	30.70	10.07	10.30	9.44	5.65	5.37	4.98
All classes	55.69	57.95	58.16	100.00	100.00	100.00	100.00	100.00	100.00

MOTOR VEHICLES INSURANCE (THIRD-PARTY RISKS).—The Transport Act 1949, which repealed the former legislative authority—i.e., the Motor Vehicles Insurance (Third-Party Risks) Act 1928—requires, as previously, owners of motor vehicles to insure against their liability to pay damages on account of the death of or bodily injury to another person. The payment of the insurance premiums is made annually to Deputy Registrars of

Motor Vehicles at the same time as the annual licence fee is paid. Owners of motor vehicles are required to nominate each year the insurance company with which the contract of insurance is to be made, and the contract is deemed to be complete on the payment of the premium.

Premium rates were reduced during the war as a result of the decrease in claims brought about by the restricted use of motor vehicles. The relaxation of controls was followed by a rise in premium rates for most classes of motor vehicles. The 1954-55 schedule includes the following: trailers, 3s.; power cycles, 5s.; tractors, traction engines, 10s.; motorcycles, £2 5s.; private motor cars, £2 2s.; private motor cars used wholly or in part for the purpose of trade or business, £2 15s.; motor vehicles (other than trailers and motor cycles) used by fire brigades, £2; heaves, ambulances, etc., £1 15s.; mobile cranes, £2; trade motors, £3 10s.; manufacturers' and dealers' motor vehicles, £2 15s.; omnibuses, from £30 (according to seating capacity); service cars from £15 (according to seating capacity); rental cars, £4; contract vehicles used to carry employees to or from work, or children to or from school, £2 2s.; private and public motor cars, £12 10s. and £20 respectively; other contract or public motor vehicles, from £5 10s. (according to seating capacity).

A sum of 2s. for every contract of insurance is deducted for administration expenses, and the balance paid to the company concerned.

The liability of the company does not extend to indemnify the owner against any claim made in respect of the death of (or injury to) any person of the family of the owner, any person in the service of the owner at the time of the accident, or a passenger. The indemnity does, however, cover the case of a fare-paying passenger in a vehicle plying for hire or carrying passengers for hire.

The liability of any insurance company under any contract under the Act is limited to £5,000 (increased from £2,000 from 1 July 1951) in respect of any passenger in the motor vehicle concerned, and to £50,000 (£20,000 prior to 1 July 1951) for all claims made by or in respect of passengers carried for hire. Otherwise there is no limit as to amount.

The following particulars give the experience of the last five years, with a summary covering the ten years to 30 June 1953. It should be noted that the liability for outstanding claims is usually overestimated, and that the total claims for any particular year when finally settled may be expected to be somewhat smaller than the amounts now given. For example, claims paid and the estimated outstanding claims for the year ended 30 June 1952 amounted to £895,612 at that date. On 30 June 1953 the claims paid, plus the estimated claims outstanding for the year ended 30 June 1952, totalled £840,933. Experience shows that this figure will be further reduced by the settling of more outstanding 1951-52 claims during the next two or three years.

	Registration Year Ended 30 June—					Total for Ten Years to 30 June 1953
	1949	1950	1951	1952	1953	
	£	£	£	£	£	£
Premiums received	479,192	395,337	683,629	810,504	1,023,759	5,326,942
Claims actually paid to 30 June 1953	400,617	439,013	557,034	371,698	86,438	3,279,068
Estimated liability for claims still outstanding at 30 June 1953	19,400	37,845	154,625	469,235	998,117	1,685,992
Ratio per cent of claims paid and outstanding to premiums	87.7	80.1	104.1	103.8	105.9	93.2

34 C—FIRE INSURANCE

In the legislation dealing with insurance four separate classes of fire-insurance offices are distinguished—namely: (1) local insurance companies established within the limits of New Zealand; (2) foreign insurance companies established beyond New Zealand; (3) United Kingdom offices similarly established; and (4) mutual fire-insurance associations. To these may be added the State Fire Insurance Office, established under a separate Act of Parliament.

Part XIV of the Companies Act 1933 provides for the incorporation with limited liability of local insurance companies formed for the insurance of property other than that of shareholders. Such a company requires a paid-up capital of £50,000 limit, and if the amount of paid-up capital falls below this sum the company may not carry on insurance business except with unlimited liability. Insurance companies established or incorporated overseas are required to have a like paid-up capital limit. Part II of the Insurance Companies Act 1940 provides that, in the case of an insurance company of doubtful solvency, inspectors may be appointed to investigate and report on the affairs of the company. Mutual associations are referred to specially at a later stage in this subsection.

DEPOSITS.—Until the passing of the Insurance Companies Act 1940 no deposit was required from an insurance company incorporated in New Zealand in respect of fire and accident insurance business, unless the company acted merely as an agent for overseas underwriters, or had, since 1933, commenced motor vehicles third-party risks insurance business. Part I of this Act, as amended by the Insurance Companies' Deposits Amendment Act 1950, provided that any New Zealand company which, after the passing of the Act, commences in New Zealand any of the specified classes of business, must deposit with the Public Trustee in money the following amounts in respect of fire insurance, £22,500; employers' liability insurance, £22,500 (by deposit of approved securities and not in money); and all other classes (except motor-vehicles third-party risks insurance), £5,000. A New Zealand company which at the commencement of the Act was carrying on any of the classes of business referred to above was required to deposit approved securities to the value of £1,000, together with a further £1,000 for each complete £2,500 of premium income derived from each class of business during its last financial year. The amount of deposit may be adjusted according to increases or decreases in business. These provisions were continued by the 1950 amendment, referred to earlier, in the case of companies that were carrying on employers' liability insurance on 11 October 1940 and which have recommended that class of business before 1 April 1952. The maximum deposit is that which would be paid by a newly established company.

The Insurance Companies' Deposits Act 1953 consolidated and amended the law relating to deposits. The foregoing provisions were continued, while mutual fire insurance associations conducting employers' liability insurance business, previously exempted, were required to deposit securities to the same value, as shown above, as other New Zealand companies engaged in this class of business prior to the 1940 Act.

The maximum deposits of New Zealand companies are the same as those required from British companies commencing business in New Zealand. Agents operating in New Zealand on behalf of British underwriters are required to make deposits similar in amount to those specified for British companies with the exception of fire and employers' liability insurance, where agents of British underwriters are required to deposit £15,000. A foreign company, or an agent of foreign underwriters, before commencing business in New Zealand, must deposit in securities the sum of £50,000, which covers all classes of business other than life, marine, and third-party risks insurance. If such companies were carrying on business prior to 28 September 1922 the deposit required is £35,000.

The Finance Act (No. 2) 1933 required any company thereafter undertaking business in terms of the Motor Vehicles Insurance (Third-party Risks) Act 1928 to deposit the sum of £10,000. This requirement was in effect extended by the subsequent legislation, under which every company undertaking this class of business must, in addition, have made the deposit required by the Finance Act, deposit £1,000, together with £1,000 for each complete £2,500 of premium income from such business. The maximum deposit is £10,000.

Life and marine businesses are not affected by the provisions mentioned in the preceding paragraphs.

The capital amount of deposits held by the Public Trustee as at 31 March 1953, under the Insurance Companies' Deposits Act and amendments, on behalf of 62 companies, was £2,066,352, as compared with £1,940,270 at 31 March 1952.

Statistics of fire insurance are collected annually by the Census and Statistics Department. For 1952, statistics were collected from 45 offices carrying on business in New Zealand. The head offices of these were distributed as follows: Great Britain, 21; New Zealand, 17; Australia, 5; Hong Kong, 1; United States of America, 1.

LIABILITIES AND ASSETS.—The following table indicates generally the extent to which fire-insurance offices have funds available to meet losses and liabilities. Funds of life departments are added for completeness, but by the Life Insurance Act 1908 (which follows the provisions of the United Kingdom statute on the subject) life funds must be accounted for separately, and form a security for life-policy holders which is not available for other classes of insurance transacted. The amount of funds (other than life) in New Zealand and elsewhere is, it will be seen, approximately £927,000,000.

	1952			1951 (Totals)	1950 (Totals)
	Overseas Companies	Local Companies	Totals		
	£	£	£	£	£
Paid-up capital	41,777,969	5,549,893	47,327,862	45,451,994	44,467,753
Reserves	579,709,807	19,720,220	599,430,027	547,939,094	524,815,138
Other liabilities	272,685,363	7,857,183	280,542,546	272,409,661	217,364,371
Totals	894,173,139	33,127,296	927,300,435	865,800,749	786,647,262
Life funds	1,184,174,460	43,683	1,184,218,143	1,142,883,558	1,092,291,638
Total liabilities (and assets)	2,078,347,599	33,170,979	2,111,518,578	2,008,684,307	1,878,938,900

The following table gives the amount of assets in New Zealand as at the end of each of the last three years classified under various heads. The figures given include all investments in New Zealand securities and do not relate merely to the assets held by the New Zealand branches of the companies concerned. The assets of other departments—accident, marine, etc.—are also included.

Assets in New Zealand	1950	1951	1952
	£	£	£
House and landed property	1,362,422	1,446,322	1,717,891
New Zealand Government securities	9,286,383	9,370,141	9,820,970
New Zealand local-authority securities	1,013,917	1,049,416	1,063,707
Mortgages, etc.	250,463	328,014	462,920
Outstanding premiums	1,202,175	1,389,167	1,663,855
Cash and other assets in New Zealand	6,062,580	6,618,478	7,197,088
Total New Zealand assets	19,177,940	20,201,538	21,926,431

SUMMARY OF BUSINESS.—The amount of business underwritten (new and renewal) has increased very substantially during the last few years. This figure for 1952 shows an increase of £203,519,455 (11.1 per cent) over 1951, while compared with five years earlier the increase amounts to £987,029,999, or 94.2 per cent.

The average premium rate fell from 6s. 1d. in 1948 to 5s. 11d. in 1949 and 1950 for each £100 of insurance cover, with a further fall to 5s. 9d. in 1951 and 1952. It is of interest to note that the average rate of premium twenty years ago was 9s. 3d. This average is influenced not only by movements in premium rates, but also by the varying proportions of insurance risks which are rated

at higher or lower premiums than the average. It should be explained that the figures in the table which follows relate to the business conducted with the insuring public. Reinsurance transactions are not taken into account.

	1950	1951	1952
—			
<i>Amounts underwritten</i>			
Gross amount of insurance cover in force in New Zealand on 31 December	£1,342,549,728	£1,578,739,499	£1,772,590,157
Number of policies representing the foregoing	1,099,292	1,169,084	1,218,497
Gross amount of new and renewal business underwritten during year	£1,524,735,432	£1,830,970,989	£2,034,490,444
Number of policies representing the foregoing	1,212,623	1,298,166	1,333,495
<i>Premiums</i>			
Total gross premiums charged on business (new and renewal) underwritten during year	£4,483,805	£5,262,542	£5,832,656
Percentage of gross premiums to total amount of business underwritten	5s. 11d.	5s. 9d.	5s. 9d.
Total premiums (as shown above), less premiums refunded to insured other than to other offices	£4,018,760	£4,672,914	£5,200,231
<i>Losses</i>			
Total number of separate fire losses with which offices were concerned	12,545	13,230	14,858
Gross losses	£1,114,534	£1,244,467	£2,058,540
Percentage of gross loss to amount underwritten (new and renewal) during year (as shown above)	0.07	0.07	0.10
Percentage of gross loss to total premiums less refunds to insured (as shown above)	27.73	26.63	39.59
Average loss	£89	£94	£139

The next table shows the position of premium income and fire claims during the period 1942-52. The figures shown correspond to those given in the previous table and refer to direct insurances only. The mounting costs of replacements are evident in the general upward trend in both premium income and claims paid. In addition, exceptionally heavy fire losses were experienced in certain years. During 1952 two outbreaks in Dunedin caused damage approximating a million pounds, while a severe loss was also suffered in a large warehouse fire in Wellington.

Year	Premium Income	Fire Claims	Percentage of Claims to Premium Income
	£	£	Per Cent
1942	2,126,722	856,515	40.3
1943	2,296,901	717,091	31.2
1944	2,206,253	547,282	24.8
1945	2,300,348	560,329	24.4
1946	2,519,396	881,504	35.0
1947	2,851,200	1,705,307	59.8
1948	3,368,735	1,011,429	30.0
1949	3,603,568	981,697	27.2
1950	4,018,760	1,114,534	27.7
1951	4,672,914	1,244,467	26.6
1952	5,200,231	2,058,540	39.6

REVENUE AND EXPENDITURE.—A statement of the total revenue and expenditure, both gross and net, of all offices is now given in respect of New Zealand business. The gross figures include reinsurance business accepted, while the net figures comprise insurances with the public, plus reinsurances accepted, and less amounts reinsured with other offices. The gross reserve for unexpired risks, it should be noted, is calculated on the assumption that it bears the same proportion to gross premium income as does the actual net reserve to the net premium income.

	1950		1951		1952	
	Gross	Net	Gross	Net	Gross	Net
	£	£	£	£	£	£
<i>Revenue</i>						
Reserve to meet unexpired risks as at beginning of year	1,873,000	1,019,286	2,108,000	1,089,239	2,320,000	1,194,270
Amount of fire premiums receivable during	4,857,719	2,611,817	5,671,516	2,889,006	6,278,006	3,240,828
Interest and dividends on stock, mortgages, etc.	101,861	101,861	106,403	106,403	115,741	115,741
Rents	29,274	29,274	32,140	32,140	29,597	29,597
Other revenue	5,572	5,572	25,473	25,473	22,628	22,628
Totals	6,867,426	3,767,810	7,943,532	4,142,261	8,765,972	4,603,064
<i>Expenditure</i>						
Amount of fire claims incurred during year, including adjustment and other expenses of settlement, but less salvage	1,357,768	730,137	1,906,715	888,021	2,938,704	1,107,600
Fire Board levies	246,112	177,474	275,959	202,421	306,379	226,595
New Zealand Government taxes	474,528	342,747	398,635	328,597	330,126	277,468
Local-authority rates	4,965	4,251	12,636	4,047	4,982	4,095
Licence fees	5,988	5,606	5,696	5,323	5,327	5,014
Rents	30,969	29,896	29,229	27,857	32,771	31,331
Allowances and commissions on premiums to agents, sub-agents, and others	495,380	175,938	560,443	164,662	637,236	198,111
Salaries and wages, including commissions on profits or bonuses	572,995	517,416	594,251	533,071	668,178	613,505
Other expenses of management	287,775	254,271	287,432	274,734	382,265	328,560
Reserve to meet unexpired risks as at the end of the year	1,989,000	1,081,459	2,320,000	1,194,270	2,576,000	1,333,411
Totals	5,465,480	3,319,195	6,300,996	3,623,003	7,881,968	4,125,320

The principal items of net revenue and expenditure for 1952 of the two classes of offices operating in New Zealand are contained in the next table.

	Net Revenue		Net Expenditure		
	Premiums	Total*	Claims	Salaries and Commissions	Total*
	£	£	£	£	£
Overseas companies	1,990,378	2,026,634	779,160	422,753	1,695,316
Local companies	1,250,450	1,382,160	328,440	388,863	1,096,963
Totals	3,240,828	3,408,794	1,107,600	811,616	2,792,279

* Excluding reserves to meet unexpired risks.

The net premium income and the total net income in 1952 have, in comparison with the corresponding figures for 1951, increased by £351,822 and £355,772 respectively. The excess of net revenue over net expenditure for 1952 amounted to £616,515, as compared with the surpluses of £624,289 and £510,788 for 1951 and 1950 respectively. It should be noted that these figures are exclusive of reserves to meet unexpired risks.

The following table shows the percentage ratio of working expenses to premium income for the years 1948-52. It is sometimes contended that contributions to the fire-prevention authority are not a working expense, but should be added to the total of fire losses. While this view is not subscribed to in the compilation of the statistics, there is a definite relationship between the items, and this table shows the ratio both inclusive and exclusive of such levies.

Item	1948	1949	1950	1951	1952
	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
Net working expenses (excluding taxes) to net premium income	41.18	45.18	44.60	41.96	43.42
Net working expenses (excluding taxes and fire-service levies) to net premium income	34.90	39.15	37.80	34.95	36.43
Gross working expenses (including taxes) to gross premium income (including reinsurances from other offices)	30.67	33.95	33.85	31.13	32.45
Gross working expenses (excluding taxes and fire-service levies) to gross premium income (including reinsurances from other offices)	26.08	29.35	28.78	26.27	27.57

It will be noted that the rates of working expenses, both net and gross, rose sharply during 1949 in line with the higher costs (mainly wage and salary) experienced by business firms generally, but the increase in premium income was sufficient to more than offset the increased costs in 1950 and 1951. However, a further substantial rise in expenses is evident in the ratios for 1952.

FIRES AND LOSSES.—In the following tables particulars are given of fire losses according to the causes of fires, extent of loss, etc., for the year 1951, the figures for earlier years being generally given for purposes of comparison. The data, which cover insured losses only, refer to fires which occurred during the respective calendar years, and in respect of which payments were made by the insurance company concerned not later than 31 March of the following year. These figures are therefore not comparable with the fire claims data given previously, which relate to the accounting years of the various offices, and which include such intangible items as loss of profits or rents, i.e., consequential losses.

A summary of fires and losses over the eleven-year period 1941–51 is given below. The high loss figures for 1947 and 1951 are both attributable to disastrous wool-store fires, one at Rongotai in 1946 (for which payment was not made until 1947) and the other at Parnell, Auckland, in February 1951. The loss in each case was in the vicinity of £500,000. Higher property values are reflected in the gradual upward trend in cover and losses during the period.

Year	Separate Fires	Buildings, etc., Affected	Gross Cover	Gross Loss
1941	6,315	6,384	7,880,911	714,630
1942	5,406	5,508	7,644,555	483,707
1943	5,710	5,781	8,936,676	426,374
1944	6,049	6,099	8,817,550	477,591
1945	6,519	6,559	14,838,243	639,372
1946	6,939	7,006	12,730,169	764,392
1947	7,903	7,961	17,103,436	1,599,822
1948	8,927	8,958	21,468,138	948,660
1949	9,268	9,305	21,346,440	856,177
1950	10,178	10,212	22,195,869	1,029,945
1951	11,663	11,697	27,415,024	1,517,992
* On buildings, etc., affected.				

The average insurance claim paid for material fire damage per head of population (including Maoris) was 9s. 2d. in 1949, 10s. 9d. in 1950, and 15s. 7d. in 1951.

The total fire wastage is, of course, greater than the foregoing figures reveal, to the extent of the uninsured loss. This unknown figure is assessed by the fire authorities at 15 per cent of the insured loss, and on this assumption the 1951 property loss in New Zealand through fire would have amounted to £1,746,000.

The classification by fire districts which follows is based on the schedules to the Fire Services Act 1949 which set out in full the districts (and their status) originally constituted under the Act. Additions, deletions, and alterations in status are periodically gazetted. The administrative authority appointed by the Act is the Fire Service Council, responsible to the Minister of Internal Affairs.

Type of Fire District	Number of Separate Fires	Gross Amount of Insurance Cover on Risks Affected	Gross Amount of Loss Paid on Risks Affected	Percentage of Loss Paid to Amount at Risk
				Percentage
				£
United Urban fire districts	4,063	12,699,412	744,650	5.86
Urban fire districts	5,417	11,201,967	488,216	4.36
Secondary Urban fire districts	467	629,380	87,873	13.96
Remainder of New Zealand	1,536	2,741,945	191,666	6.99
Floating risks	180	142,320	5,587	3.93
Totals	11,663	27,415,024	1,517,992	5.54

The relationship between the number of fires and loss incurred is closely sustained for the main types of district: 81.1 per cent of fires occurred in urban (including united urban) fire districts, the loss amounting to 81.2 per cent of the total.

Causes of Fires.—Particulars regarding causes of fires are contained in the following table which covers the years 1949 to 1951.

Cause of Fire	1949		1950		1951	
	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss
£						
Electricity	1,682	56,595	1,889	81,279	2,339	63,404
Gas	182	7,832	174	23,488	206	9,352
Naked lights	93	2,134	122	3,095	161	7,209
Defective chimneys and kindred causes	367	36,521	404	32,250	442	76,083
Smoking and careless use of matches	1,338	46,646	1,484	162,856	1,747	71,268
Sparks from fireplaces	3,597	82,863	3,912	54,615	4,499	117,998
Heating, boiling-down	228	21,187	246	9,732	259	10,123
Highly inflammable spirits and materials	236	52,286	251	123,997	263	155,415
Incuriarism and arson	26	30,982	20	31,586	26	10,332
Outside causes	233	37,066	263	18,830	244	16,917
Other causes	38	1,614	37	13,137	39	1,356
Totals, specified causes	8,020	381,726	8,802	554,865	10,225	539,457
Fires spread from other buildings*	39	5,920	40	26,063	69	52,890
Floating, travelling, and transit risks	103	6,163	160	6,315	180	5,587
Unknown causes	1,145	468,286	1,216	468,765	1,258	972,948
Totals	9,268	856,177	10,178	1,029,945	11,663	1,517,992
* Included in various causes from which spread.						

It should be remembered that in some instances, more especially where a total or semi-total loss is sustained, the actual cause is a matter of conjecture only. These cases, however, are not numerous, as the vast majority of such losses are included in the total of unspecified causes. The high loss figure in this group for 1951 is due to the wool fire mentioned earlier. In 1951 the average loss per fire for specified causes was £53, while the average for the fire where the cause was not specified amounted to £773. The respective amounts for 1950 were £63 and £385.

The Fire Services Amendment Act 1952 provides that the Minister of Internal Affairs may appoint any person to hold an inquiry into any fire and the steps taken to deal with it, whether the fire occurred before or after the commencement of the empowering section. Statutory authority had previously existed for coronial inquiries into fires of suspicious origin until the passing of the Coroners Act 1951.

Extent of Loss.—The next table gives particulars of fire losses during the years 1949 to 1951, classified according to the amount of loss. The vast majority of fires cause only minor damage. During the five years 1947–51 losses of under £10 accounted for 68.5 per cent of the total number of fires, and in the latest year (1951) the percentage was slightly lower—viz., 68.1 per cent. Losses of under £100 during 1951 accounted for 93.6 per cent of the number of fires and 7.1 per cent of the total loss sustained. At the other end of the scale the amount of loss in fires of £5,000 and over was responsible for 62.3 per cent of the aggregate loss in 1951, although numbering only 38.

Loss Category	1949		1950		1951	
	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss
£						
£						
Under 10	6,384	23,307	7,024	25,870	7,938	29,999
10 and under 25	1,427	21,534	1,541	22,860	1,952	28,813
25 and under 50	484	16,511	579	19,939	645	22,117
50 and under 100	267	18,460	308	21,109	385	26,357
100 and under 200	205	28,035	191	25,997	225	30,755
200 and under 300	86	20,550	105	24,877	115	27,694
300 and under 400	72	24,489	70	24,022	75	24,468
400 and under 500	48	21,477	47	23,384	38	16,638
500 and under 750	93	55,240	79	48,296	64	38,761

Loss Category	1949		1950		1951	
	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss
£						
£						
750 and under 1,000	45	37,318	51	45,514	47	39,656
1,000 and under 2,000	85	115,344	107	142,752	100	136,898
2,000 and under 3,000	32	73,017	25	57,512	29	69,683
3,000 and under 4,000	13	44,999	16	54,999	10	35,313
4,000 and under 5,000	3	12,680	9	39,922	10	44,619
5,000 and over	26	343,216	26	454,892	38	946,221
Totals	9,268	856,177	10,178	1,029,945	11,663	1,517,992

Seasonal Incidence of Fires.—The following table gives particulars of fires and losses, etc., for the years 1949 to 1951 according to the month in which the fire occurred. It will be observed that most fires occur in the winter months, when open fireplaces and heating appliances are used to a greater extent. The majority of these fires, however, usually result in a very small amount of loss, being mainly on account of damage caused to furniture, floor coverings, clothing, etc.

Month in Which Fire Occurred	1949		1950		1951	
	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss
£						
£						
January	534	70,621	679	134,672	649	71,273
February	516	84,689	569	76,627	557	560,372
March	585	108,629	651	176,230	700	57,663
April	715	65,267	704	64,509	721	114,331
May	915	85,283	766	68,265	1,061	56,094
June	1,063	47,072	1,125	40,200	1,446	89,191
July	1,029	38,475	1,349	58,025	1,544	70,756
August	1,031	41,611	1,145	75,317	1,377	83,402
September	830	112,412	966	65,189	1,079	91,848
October	707	42,758	801	108,403	929	93,799
November	689	79,120	753	72,945	845	133,487
December	654	113,240	670	89,563	755	95,776
Totals	9,268	856,177	10,178	1,029,945	11,663	1,517,992

Class Groups.—Losses have been classified in broad groups according to the nature of the risk, the figures for the years 1949–51 being presented in the next table. The most numerous group, dwellings, in 1951 represented 85.3 per cent of the total fires, but only 22.5 per cent of the total loss. It should be noted that the "contents," where insured, are included in the various class groups. Consequently the total for the dwellings group is swollen by the numerous small claims on account of damage to personal effects, etc., the actual building not being affected by the fire in many instances. The miscellaneous risks group also includes those cases where a fire has affected two or more buildings, which individually are classifiable into more than one of the other groups shown in the table. In this category falls the Auckland wool-store fire mentioned previously, although the "other buildings" affected were comparatively unimportant judged by the amount of loss.

Class Group	1949		1950		1951	
	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss	Number of Fires	Amount of Loss
£						
£						
Dwellings, etc.	7,755	298,679	8,556	326,377	9,954	341,985
Hotels, etc.	312	36,207	337	29,195	376	51,237
Bulk stores, etc.	24	61,274	22	66,827	34	27,110
Warehouses	26	40,769	30	9,534	28	2,158
Shops	308	31,523	351	57,974	393	86,398
Factories and industrial risks	326	215,612	364	232,357	408	307,951
Farm risks and station property (other than dwellings)	106	17,697	109	16,429	89	13,006
Theatres and places of public amusement	32	2,596	36	4,011	36	8,538
Miscellaneous risks (including unclassified)	369	151,820	373	287,581	345	679,609
Totals	9,268	856,177	10,178	1,029,945	11,663	1,517,992

MUTUAL FIRE-INSURANCE ASSOCIATIONS.—Mutual associations are governed by the Mutual Fire Insurance Act 1908, which allows one hundred or more owners of isolated or farm properties to subscribe to a declaration, and form themselves into a mutual association to insure against loss by fire to an amount in the aggregate of not less than £40,000. Amendments to this Act permit these associations to conduct accident business in addition to fire insurance. Such associations effect insurance on the premium-note principle, and accept premium notes to be assessed for losses in the proportion of the total amount of such notes. The amount of a member's premium notes limits his liability. As stated in the section relating to deposits, mutual fire insurance associations carrying on employers' liability insurance business are now required to deposit approved securities to a specified value with the Public Trustee.

Summarized figures for the three associations formed under the Act appear below.

Year Ended 31 March	Net Premium Income			Net Claims		Reserves and Funds	Assets*
	Fire	Accident	Total Net Income	Fire	Accident		
£							
£							
1949	38,053	38,870	81,288	7,706	10,466	125,003	670,785
1950	45,084	72,537	122,985	5,228	20,946	157,635	877,335
1951	48,552	62,228	119,261	6,161	34,208	162,257	1,004,630
1952	57,733	71,094	135,037	10,144	32,032	166,580	1,165,647
1953	69,961	75,915	145,876	11,934	38,339	181,048	1,375,721

The mutual fire insurance associations were included in the list of mutual companies which were exempted from the operation of the Workers' Compensation Amendment Act 1947, which provided for the placing of all employers' liability insurance with the State Accident Insurance Office. This is the principal reason for the large increase shown in the income from the accident branches of these associations in 1948–49 and 1949–50.

FIRE BRIGADES.—The following table gives particulars of fire brigades (including branches) in New Zealand as at 31 December for each of the five years 1947–51 inclusive. Volunteer brigadesmen are included in the figures of personnel.

Year	Stations	Officers	Men	Total Personnel
1947	201	592	2,588	3,180
1948	212	612	2,670	3,282
1949	217	659	2,861	3,520
1950	218	647	2,864	3,511
1951	220	635	2,866	3,501

At 31 March 1953 there were 203 fire brigades under the administrative authority of the Fire Service Council, of which 22 were staffed with permanent personnel numbering 505. There were also 8 station keepers and approximately 3,000 volunteers and auxiliaries.

34 D—STATE INSURANCE ACTIVITIES

STATE LIFE ASSURANCE.—The Life Insurance Department of the New Zealand Government was founded in 1869 at a time when New Zealanders had comparatively poor facilities in regard to life insurance. Payment of all policies with the State Office is guaranteed by the Government. Industrial assurance is not transacted. The administration of the Department's affairs is regulated by the Government Life Insurance Act 1953, a consolidation of the Act of 1908 and its amendments.

The total income of the Department for 1952 was £3,174,719, an increase of £274,331 over the previous year. Premium income amounted to £2,399,051, annuity purchase money, £26,814, and interest, rents, etc. (net), £748,854.

During the year 1952 payments (including bonus additions) to the value of £492,011 were made on account of matured policies, and £30,535 was paid for death claims under assurance policies (including bonus additions). A sum of £57,707 was paid to annuitants, and a total of £183,069 to policyholders who cashed bonuses or surrendered their contracts. Commission totalled £126,338, and other expenses of management £166,343, making the total management expenses £378,981. Land and income tax amounted to £69,763, and other expenditure, including £16,556 transferred to reserves, totalled £24,814.

Income and expenditure figures of the Government (Life) Insurance Department are now given for each of the five years 1948-52.

Year	Premium Income (including Purchase of Annuities)		Total Income	Management Expenses		Total Expenditure	Ratio of Management Expenses to Total Income		Ratio of Management Expenses to Premium Income	
	£	£		£	£		Per Cent	Per Cent		
1948	1,440,771	2,019,991	3,460,762	246,762	1,193,557	12.22	17.13			
1949	1,612,339	2,222,861	3,835,200	258,691	1,263,790	11.64	16.04			
1950	1,836,866	2,484,291	4,321,157	287,506	1,319,944	11.57	15.85			
1951	2,207,123	2,900,388	5,107,511	334,025	1,497,995	11.52	15.13			
1952	2,425,865	3,174,719	5,600,584	378,981	1,536,880	11.94	15.62			

The record volume of new business written and continued increases in working costs resulted in slightly higher management-expense ratios during 1952.

Figures showing the progress of the Department are contained in the next table. Annuities are excluded.

Year	New Business			Policies Discontinued			Policies in Force at End of Year		
	Number of Policies	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums	Number	Sum Assured	Annual Premiums
	£	£	£	£	£	£	£	£	£
1948	13,154	8,077,867	185,466	3,970	1,858,286	45,149	130,351	57,218,623	1,331,252
1949	13,508	8,578,568	212,039	4,592	2,277,306	55,737	139,267	63,519,885	1,487,534
1950	13,875	9,600,432	235,423	4,681	2,449,939	62,206	148,461	70,670,378	1,760,751
1951	15,804	12,276,040	297,938	4,849	2,779,518	66,622	159,416	80,166,900	1,892,067
1952	19,197	15,326,325	348,198	5,290	3,187,088	79,209	173,323	92,306,137	2,161,056

While 1951 was a noteworthy year in the history of the Department, the amount of new business written in 1952 eclipsed the previous year's total by over £3,000,000, the number of new policies involved being greater by 3,393. In addition to the total sum assured at the end of the year, accrued reversionary bonuses amounted to £5,454,040. Immediate, deferred, and contingent annuities amounted to £648,977.

The average sums insured by new policies issued during 1950, 1951, and 1952 were respective £692, £777, and £797.

The Department's balance sheet as at 31 December 1952 showed that the total assets amounted to £21,517,700, and were invested as shown in the following statement, which also gives the distribution of the assets at the end of the two preceding years for purposes of comparison.

Class of Investment	Amount			Proportion to Totals		
	1950	1951	1952	1950	1951	1952
	£	£	£	Per Cent	Per Cent	Per Cent
Mortgages on freehold property	5,039,473	5,969,404	7,051,169	27.25	30.04	32.77
Loans on policies	756,823	768,311	843,781	4.09	3.87	3.92
Government securities	8,044,430	7,860,690	7,860,690	43.50	39.55	36.53
Local authority securities	3,782,741	4,367,362	4,847,252	20.45	21.97	22.53
Landed and house property	482,850	480,300	486,860	2.61	2.42	2.26
Miscellaneous assets*	330,552	382,683	419,318	1.79	1.92	1.95
Cash in hand, on current account, and on deposit	56,947	44,314	8,630	0.31	0.23	0.04
Totals	18,493,816	19,873,064	21,517,700	100.00	100.00	100.00

Assurance, annuity, and endowment funds, apart from special reserves of £515,000, amounted to £20,798,647, an increase of £1,637,839 over the corresponding figure at the end of the previous year.

STATE ACCIDENT INSURANCE.—In the year 1901 the Government (Life) Insurance Department opened an Accident Branch. On 1 January 1925 the accident business was transferred to the control of the State Fire Insurance Office. General accident business was undertaken, but the branch was opened more especially to conduct insurance under the Workers' Compensation Act. In recent years other forms of accident insurance have contributed on an increasing scale to the premium income of the Office. The main classes transacted are employers' liability, personal accident, public risk, motor comprehensive, third-party risks, plate glass, and fidelity guarantee.

General Business.—A summary of revenue and expenditure during the last five years is contained in the following table.

Year	Revenue*		Expenditure*		Ratio of Claims to Earned Premiums	Total Assets	
	Premiums	Total	Claims	Working Expenses			
	£	£	£	£	Per Cent	£	
1948	466,046	496,206	318,329	98,062	464,299	71.9	1,129,007
1949	337,716	367,895	308,816	80,798	417,878	79.0	1,162,928
1950	351,335	381,042	287,080	80,417	373,066	80.7	1,401,372
1951	867,911	900,677	515,564	146,442	716,044	72.6	1,591,481
1952	1,025,578	1,066,108	681,059	190,906	930,228	73.7	1,722,029

Higher rates for motor-vehicle insurance were chiefly responsible for the rise in premium income of £157,667 during 1952, but the gain was more than offset by a claims increase of £165,495, apart from higher working costs. The ratio of working expenses to earned premiums was 19.4 per cent.

The total assets at 31 December 1952 included £1,093,646 invested in Government securities. Reserves and Funds totalled £1,088,211.

Employers' Liability Insurance Account.—The Workers' Compensation Amendment Act 1943 made it obligatory for an employer to insure against his liability to pay compensation under the principal Act.

It has been mentioned earlier that, as from 1 April 1949, all employers' liability insurances were required to be placed with the Government Accident Insurance Office. This provision was contained in the Workers' Compensation Amendment Act 1947, which at the same time exempted, subject to certain conditions, the employers' liability insurance business of certain specified mutual insurance companies from the operation of the Act. Approximately 95,000 employers were insured under the fund in 1950. This position obtained until 1 April 1951, the Workers' Compensation Amendment Act 1950 having restored the right of insurance companies to participate in this class of insurance.

The 1947 Act established an Employers' Liability Insurance Account, which was credited with all premium and other receipts, and from which is paid all claims and other expenses. The Account ceased to be responsible for accidents happening after 31 March 1951, but the more serious industrial accident claims are frequently not settled for months, and in some cases years, after they occur.

Every employer was required, within one month after 31 March of each year, to furnish the amount of wages paid during the year ending on that date, and an estimate of the wages expected to be paid during the current year. The amount of premium is assessed on the amount of wages expected to be paid, and adjustment is made when the actual amount of wages has been ascertained at the end of the period. Although the Account did not continue to cover him after 31 March 1951, every employer was still obliged to render a return of wages paid and have his final position assessed.

The rates of premium payable for the various classes of risk were prescribed by the Employers' Liability Insurance Regulations 1949, as amended later in the same year. The Act gave the General Manager power to grant a special rebate or make an extra charge when an employer's accident experience was more or less favourable than the average experience.

The following statement gives the experience of the Employers' Liability Account for the four periods for which the accounts have been published, the first covering the nine months 1 April to 31 December 1949, and the other three the calendar years 1950, 1951, and 1952. In this connection attention is again drawn to the fact that this class of insurance reverted to open competition from 1 April 1951.

	1949	1950	1951	1952
* Includes all management expenses.				

	1949	1950	1951	1952
Revenue—	£	£	£	£
Reserve for unearned premiums (at 1 January)		499,478	605,945	
Premiums	1,498,435	1,817,836	142,955	
Interest, etc.	8,663	23,184	28,512	19,771
Balance transferred to Fund				93,179
Total revenue	1,507,098	2,340,498	777,412	112,950
Expenditure—				
Claims	691,479	1,138,178	306,949	23,948
Salaries	111,205	135,260	109,000	
Other management expenses	34,777	27,488	9,783	763,111
Loss on realization of securities			562	25,891
Reserve for unearned premiums (at 31 December)	499,478	605,945		
Total expenditure	1,336,939	1,906,871	426,294	112,950
Income and social security taxes	85,570	254,503	180,633	
Alterations to buildings	23,245			
Office furniture, etc.	12,643			
Surplus	48,701	179,124	170,485	
Total expenditure	£1,507,098	£2,340,498	£777,412	£112,950

* Includes all management expenses.

At 31 December 1952 the amount in the Fund stood at £305,131. The principal other liabilities were outstanding claims, £93,163, and provision for taxation, £90,738. Government securities held totalled £485,795. The assets have now been transferred to the Industrial Welfare Deposit Account, controlled by the Treasury, to be held for the purposes of rehabilitation of injured workers and accident prevention in industry. The cost of handling the remaining claims will be recovered from Treasury.

The 1950 amending Act established the Workers' Compensation Board for the general administration of the Act. Particulars of the functions of the Board and other related matters are contained in Section 38 F of this volume, which reviews generally the subject of workers' compensation.

STATE FIRE INSURANCE.—The New Zealand State Fire Office was the first competitive State fire insurance office in the world, and opened for business on 4 January 1905 with a borrowed capital (long since repaid) of £2,000. The income of the Office in its first year was £13,135.

Marine insurance has been undertaken since 1947.

At the end of 1936 the bonus rebates then in existence were converted into permanent premium-rate reductions, a new series of bonus rebates being instituted at the same time. On 1 March 1944 premium rates on wooden buildings were further reduced and, in addition, bonus rebates were once more converted into permanent premium-rate reductions, a further series of 10 per cent on wooden risks and 15 per cent on brick risks being granted at the same time. This series was increased on 1 November 1947 to 20 per cent on renewals on both wooden and brick risks. As from 1 October 1949 a rebate of 10 per cent was granted on new business, while the rebate on renewal business was increased to 25 per cent on 1 January 1950, with a further increase to 33½ per cent as from 1 January 1951.

A substantial advance of £63,700 in net premium income was experienced during 1952. Nevertheless, an increase of £32,279 in losses and a further rise in working expenses reduced the net surplus from £70,594 in 1951 to £36,328 in 1952.

Year	Net Premium Income	Total Net Income*	Net Losses	Total Net Expenditure*	Accumulated Funds	Total Assets
	£	£	£	£	£	£
1948	244,785	317,852	47,684	229,891	1,481,604	1,726,886
1949	261,981	330,172	57,327	233,156	1,544,367	1,825,862
1950	293,989	354,077	71,362	277,502	1,592,061	2,341,849
1951	312,099	415,972	81,768	348,323	1,659,710	1,999,143
1952	375,801	457,248	114,046	389,070	1,727,888	1,971,491

* Excluding reserve for unearned premiums.

The percentages of various classes of expenditure to earned premiums and total income are given below.

Item	1950	1951	1952
Ratio of claims to earned premiums	23.8	25.9	33.1
Ratio of working expenses to earned premiums	34.5	43.6	51.6
Ratio of Fire Service Council levies to earned premiums	9.3	10.0	10.0
Ratio of Government taxes to total income	22.3	16.8	8.2

EARTHQUAKE AND WAR DAMAGE INSURANCE.—The Earthquake and War Damage Act 1944, which came into force on 1 January 1945 (repealing the War Damage Act 1941), provided for both compulsory and voluntary insurance against these two classes of risks. By the Act an account—the Earthquake and War Damage Fund—was established, into which all moneys received are paid, the Fund being administered by a Commission. All property insured against fire is deemed to be insured to the extent of the indemnity value against earthquake and war damage. Premiums at the rate of 1s. for each £100 of insurance cover are collected by the insurance companies and paid into the Fund (less commission of 2½ per cent).

The Act provides for both compulsory and voluntary insurance against earthquake and war damage. Under the compulsory provisions of the original Act all property insured to any amount under any contract of fire insurance with an insurance company is deemed to be insured to the same amount against earthquake damage and war damage. An amending Act passed in 1951, however, provides that where the contract of fire insurance provides for the settlement of the claim upon the basis of the replacement value, the compulsory earthquake and war damage insurance will be for the amount of the indemnity or present value only. If the present value is certified by a registered architect or a registered valuer, the earthquake and war damage premium will be charged on the amount so certified. Under the voluntary provisions of the Act any person having an insurable interest in any property may make application to the Commission for earthquake or war damage insurance, and

a contract may be made for the insurance of any property that is not insured under the compulsory section of the Act, or for the insurance to an additional amount of any property that is so insured.

Advances may be made from the Consolidated Fund if at any time the amount in the Earthquake and War Damage Fund is not sufficient to meet the claims thereon.

"Earthquake damage" is defined as damage occurring as the direct result of earthquake or of fire occasioned by or in consequence of earthquake. It also includes damage occurring as the direct result of measures taken under proper authority to avoid the spreading of, or otherwise to mitigate the consequence of, any such damage. In addition to damage occurring as a direct result of action by the enemy, "war damage" included damage occurring as the direct result of measures taken in combating the enemy or precautionary or preparatory measures taken under proper authority with a view to preventing or hindering any enemy or anticipated enemy action. It also includes accidental damage occurring as the direct result of any explosion or fire which involves any explosives or munitions, etc., required for war purposes.

In the last three financial years the number of claims on the Fund was 544 in 1950-51, 232 in 1951-52, and 69 in 1952-53. The aggregate amount at risk in 1953 was £1,935,000,000.

During the financial year 1949-50 an extension of the scheme was instituted to provide some measure of protection to the insured against storm and flood of an abnormal or widespread nature. Finance is provided by crediting 10 per cent of the premiums compulsorily collected under the Act to a special Disaster Fund, without further liability on the Earthquake and War Damage Fund. Cover is limited by a "franchise" or "first loss" deduction of 5 to 10 per cent of the insured loss, which proportion is borne by the insured. During the year ended 31 March 1953, 258 storm and flood claims were received, compared with 261 in 1951-52, and 89 in 1950-51.

The following is a comparative statement for the last six years of the operations of the Earthquake and War Damage Act, together with a statement showing the position from the inception of the Fund to 31 March 1947.

	19 Dec. 1941 to 31 Mar. 1947	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Income—							
Premiums—	£	£	£	£	£	£	£
Earthquake and war damage	5,008,092	494,938	540,704	563,009	631,982	754,127	860,215
Storm and flood				24,158*	70,628	83,553	95,426
Interest	373,193	129,957	129,591	179,761	192,871	220,585	258,000
Totals	5,381,285	624,895	670,295	766,928	895,481	1,058,265	1,213,731
Outgo—							

* Figures cover last five months of year—i.e., from commencement in November 1949.

	19 Dec. 1941 to 31 Mar. 1947	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Claims—							
Earthquake and war damage	3,379	7,917	12,876	2,161	19,341	4,044	893
Storm and flood				6,606*	1,986	9,875	22,364
Salaries and expenses or management	22,293	3,903	4,308	3,426	3,942	4,698	4,661
Discount to insurance offices	27,832	11,843	13,573	14,947	17,652	20,892	23,831
Exchange adjustment			339,525				
Totals	53,204	23,663	370,282	27,140	42,921	39,509	51,749
Surplus	5,328,081	605,232	300,013	739,788	852,560	1,018,756	1,161,982
Earthquake and War Damage Fund	5,328,081	5,929,313	6,229,326	6,952,292	7,738,369	3,686,006	9,773,268
Disaster Fund				16,822	83,305	154,424	229,144
* Figures cover last five months of year—i.e., from commencement in November 1949.							

The item "exchange adjustment" of £339,525 in 1948-49 is the depreciation in the New Zealand value of the Commission's overseas funds as the result of the alteration in the exchange rate to parity with sterling which came into operation during 1948.

MORTGAGEES' INDEMNITY INSURANCE.—The Mortgagees' Indemnity (Workers' Charges) Act 1927 provides that when mortgages are presented for stamping, an additional stamp duty of 1s., known as a mortgagee's indemnity fee, is to be paid. The indemnity fees are paid into the Consolidated Fund, from which losses incurred by mortgagees through the enforcement of charges under the Workers' Compensation Act are met. A section of the Act definitely absolves the mortgagor from any obligation to insure or keep insured the mortgage against loss of this nature in respect of any mortgage under the Act.

Chapter 35. SECTION 35—INCOMES AND INCOME TAX

Table of Contents

INCOMES AND TAX ASSESSMENT.—A system of annual statistics from the particulars on the income-tax returns was inaugurated in 1923 and was continued up to and including the income year 1930-31, but was then discontinued for reasons of economy. The compilation was last resumed, commencing with the income year 1933-34, but following the 1940-41 tabulation it was found necessary to suspend activities in this connection owing to shortages of staff, etc., arising from war conditions. The compilation of these statistics was again resumed commencing with the income year 1945-46.

Commencing with the income year 1947-48 the previous system of a full enumeration of all assessments was abandoned, and a system of estimating from a sample consisting of approximately 10 per cent of the total number of assessments was substituted. Provision was made at the same time to obtain a complete coverage of all incomes of £2,500 and over. The selection of the sample was governed principally by considerations of administrative convenience. All assessments issued to persons whose surnames commenced with one of the three chosen letters of the alphabet were included in the sample. It had previously been determined that the assessments included in these letters, which, when aggregated, amounted to approximately 10 per cent of the total number, were a reasonably representative section of the whole as far as incomes under £2,500 were concerned. Three letters of medium size in regard to numbers of assessments were adopted in preference to taking the results of one (or two) of the letters having larger numbers of assessments in order to spread as evenly as practicable the work of preparing the assessments for the statistical compilation.

Other than the provision for a full enumeration of all incomes of £2,500 and over, no direct attempt was made to stratify the sample by size of income, or any other factor. While it would have been desirable from some angles to have increased the proportional representation of the sample as the income groups ascended the frequency distribution scale, this would have impaired the administrative simplicity of the scheme of sampling adopted. The use of an overall 10 per cent sample ensures adequate coverage of all income groups, but the numbers yielded are, in the lower income groups, more than are actually necessary to give reliable results.

The use of the sampling method explains the "rounded-off" figures which are shown for the 1948-49, 1949-50, and 1950-51 statistics in the tables which follow. In some cases this process of rounding-off results in the total figure given disagreeing slightly with the aggregate of the component items.

The figures are given to the nearest ten for numbers of assessments, etc., and to the nearest ten thousand for the amounts columns. These units were adopted to lessen the difficulties associated with the rounding-off of the figures. It is not intended to imply that the estimates are regarded as having a degree of accuracy as high as the units in which the results are expressed. The accuracy of the estimates appears to be such that the "thousands" of the numbers of assessments, and the "hundred thousands" of amounts are approximately correct.

Information concerning the system of income tax in New Zealand is given earlier under the heading of "Taxation" (see pp. 712-718). The statistical data relating to income tax in this Section more properly belong to the Taxation subsection referred to, but it is considered preferable to treat the figures relating to the incidence of tax with those showing the distribution of the incomes on which the tax is assessed.

The returns from which these statistics are compiled are required from all taxpayers. In addition, whether taxpayers or not, all taxable companies and taxable public or local authorities engaged in any profession, trade, manufacture, or undertaking carried on for pecuniary profit, irrespective of the amount of income derived, and all persons in receipt of incomes of £200 or over, are required to furnish returns. (This limit has since been raised to £300.) As far as individuals are concerned, the statistical compilation is, however, limited to taxpayers and to persons whose returnable incomes amount to £200 or over.

The reference to individuals whose returnable incomes are £200 or over should not be interpreted as meaning that there is a complete coverage of incomes over that amount. Certain types of non-assessable income, including war pensions and social security monetary benefits, are excluded from the returns, and are therefore completely omitted from these statistics. The social security universal superannuation benefit became part of the assessable income from 1 October 1951. The coverage of the returns is also incomplete in one other respect. A number of persons with assessable incomes of between £200 and £300 fail to furnish returns. The personal exemption of £200 and the tax rebate of £15 account for the first £308 of assessable income. The great majority of missing returns for income over £308 represent persons who are known to be entitled to other exemptions which would bring them into the non-taxpaying category.

It is estimated that in the 1950-51 income year, 6,550 individuals who were engaged in farming, private trading, etc., had returnable incomes of less than £200. Their incomes were distributed as follows:

Amount of Income	Number	Aggregate Income
£	£	£
Loss	1,010	260,000*
0-99	1,780	100,000
100-199	3,760	580,000
Totals	6,550	420,000
* Amount of loss.		

The above figures do not include salary or wage earners, or those individuals receiving "investment" income. As returns are not furnished in such cases, there is not sufficient data available from income-tax sources to make a reasonably accurate estimate possible.

It should be explained that the incomes earned during an income year are returned and assessed for income tax in the next succeeding year. Therefore the statistics for the income year 1950-51, which are, in general, the incomes earned during the twelve months ended 31 March 1951, are also substantially the statistics of the assessment or taxation year 1951-52.

In the years prior to the income year 1949-50 these statistics were based on the assessed year—i.e., all assessments made during the assessment year ended 31 March were included in the statistics, and were described as the statistics relating to the assessment year in question. With the introduction of the detailed industry and occupation classifications the deficiencies of the assessment-year basis when considering the incomes aspect of the statistics became more obvious. If the assessment of a particular taxpayer is for some reason delayed until after 31 March then, under the assessment-year basis, the income of that taxpayer would be omitted from the statistics of one assessment year and in the next assessment year that taxpayer would be included twice, once for the then current income year and once for the previous income year. The omissions and duplications of income for particular taxpayers fairly effectively counterbalanced each other under the broad source classifications previously used, but no longer do so when the detailed classifications were introduced. As the incomes aspect of these statistics are generally considered to be rather more important than the taxation aspects, the basis of compilation for this Section was altered from the assessment year to as close an approach to the income year as was practicable. The years quoted in the various statistical tables now refer to income years. It should be understood, however, that the data for the years prior to the 1949-50 income year were, despite the use of the income year in the column headings, etc., compiled on assessment-year basis. As far as the statistics in the following pages are concerned, the absence of strict comparability between 1949-50 and 1950-51 income-year figures and those of previous years affects the data to only a minor degree.

It is mentioned in the previous paragraph that the ideal of including in the statistics all incomes (over the minimum limit) for the income year in question and excluding all other income years is approached as closely as practicable. Taking the 1950-51 income year as an example, all assessments made up to approximately the end of May 1952 were included in the statistics. The extension of closing date from 31 March to the end of May brings into the statistics most of the late assessments. Late assessments for previous income years which were made after the end of May 1951 were also included, on the assumption that they would reasonably represent assessments of 1950-51 incomes not made by the closing date. Incomes of £2,500 and over were treated in a slightly different manner; if the assessment for the current year had not been made by the closing date, then the previous year's income data for that taxpayer was included. For practical purposes the statistics are regarded as being on an income-year basis.

SUMMARY OF INCOMES, EXEMPTIONS, AND TAX.—The following table briefly summarizes the main items of information for each of the last five income years available.

Item	1946-47	1947-48	1948-49	1949-50	1950-51
Number of assessments	473,466	531,382	560,196	600,839	623,489
Number of taxpayers	387,724	367,601	412,894	466,264	468,066
	£(000)	£(000)	£(000)	£(000)	£(000)
Assessable income*	268,760	324,317	350,451	405,828	491,074
Returnable income*	279,768	339,786	367,166	422,876	511,247
* Proprietary income is excluded from assessable income and included in returnable income.					

Item	1946-47	1947-48	1948-49	1949-50	1950-51
Exemptions—					
Personal	94,398	106,040	111,830	120,490	125,680
Other	44,509	51,030	55,000	59,740	118,640
Taxable income	129,853	167,247	183,621	225,588	302,434
Income tax assessed	38,704	44,303	46,189	56,925	77,976
* Proprietary income is excluded from assessable income and included in returnable income.					

The figures reflect the rise in monetary incomes which has been a conspicuous feature of New Zealand's economy in recent years. The 1950-51 figures in the above table are in most instances almost twice the corresponding figures for 1946-47. A strict comparison is, however, not possible, as changes in compilation practice and numerous amendments in income-tax law have affected the comparability of one year's figures with those of another.

CLASSES OF TAXPAYERS.—"Individuals" comprise all assessments for individual persons. Partnership returns are ignored in the compilation, as the individual shares of partnership income are included in the individual tax assessments. The incomes of deceased persons' estates are not included as the greater part of these are transferred to the assessments of the beneficiaries.

The term "companies" not only covers companies incorporated under the Companies Act 1933 and other Acts relating to the formation of companies, but also includes local and public authorities, associations (incorporated or unincorporated), and aggregations of individuals (other than partnerships) which form separate and distinct entities for income-tax purposes. Government Departments which are liable to pay income tax are included, but local and public authorities are generally not taxable even in respect of their trading operations, and consequently are not included in these statistics.

Non-resident traders are not now separately classified, but are included either as individuals or as companies.

A classification on the basis of class is given in the following table for each of the last three-available tax years.

Class	Number of Assessments		Number of Taxpayers		Assessable Income*				
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
							£(000)	£(000)	£(000)
Individuals	545,700	584,700	605,480	400,950	452,730	452,890	295,950	344,280	415,060
Companies	14,496	16,139	18,009	11,944	13,534	15,176	54,501	61,548	76,014
Totals	560,196	600,839	623,489	412,894	466,264	468,066	350,451	405,828	491,074
* Excluding proprietary income.									

The numbers of assessments for individuals in the 1950-51 income year covered 517,970 males and 110,830 females, a total of 628,800. The number of females showed an increase of 11.1 per cent, compared with an increase of 2.9 per cent for males, during the year. The figures quoted for males and females include in their respective sexes the number of husbands and wives who were issued with combined assessments under the provisions relating to the aggregation of the incomes of husband and wife. In the statistical tables, such combined assessments are counted as one assessment only.

AMOUNT OF INCOME.—The broad principle adopted in calculating the assessable income is that any expenditure or loss exclusively incurred in the production of assessable income for any year may be deducted from the total income from any assessable source for that year. Depreciation is allowed, varying rates for different classes of assets being fixed. The assessable income is approximately equivalent to the net profit as determined by the normal commercial accounting systems. It is, on the whole, rather higher than the commercial net profit, since certain types of expenditure which are regarded as a revenue charge in commercial accounts are not permissible deductions from income for income-tax purposes.

Where the operations of a source of income which would be assessable for income tax have resulted in a loss for the year, the loss may be set off against assessable profits from other sources (if any) or, in default thereof, may be set off against assessable profits in the three following years. The Land and Income Tax Amendment Act 1953 extends this period to six years, but does not apply to losses incurred before the income year 1949-50. Capital profits are not assessable and capital losses are not deductible.

INCOMES OF INDIVIDUALS: Assessable Income. — Summarized figures according to amount of assessable income of individuals are now given for the last three income years available.

Amount of Assessable Income	Number of Assessments		Assessable Income*			
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
£	£	£	£(000)	£(000)	£(000)	
Under 300	72,550	71,630	62,300	18,450	18,180	15,790
300-399	125,130	103,870	83,360	14,210	36,610	29,250
400-499	137,710	142,030	120,630	61,210	63,520	54,360
500-599	81,590	100,300	116,930	44,220	54,440	63,720
600-699	43,830	54,050	71,670	28,150	34,760	46,030
700-799	23,670	30,910	40,670	17,640	22,990	30,290
800-899	14,800	20,400	24,700	12,490	17,200	20,830
900-999	9,860	12,950	16,610	9,300	12,240	15,670
1,000-1,199			19,990			21,610
1,200-1,399			10,930			14,100
1,400-1,599	29,330	37,690	7,540	38,840	50,540	11,250
1,600-1,799			5,430			9,210
1,800-1,999			3,660			6,920
2,000-2,999	4,990	7,120	10,890	11,710	16,850	26,130
3,000-3,999	1,333	2,103	4,880	4,553	7,216	116,728
4,000-4,999	468	796	2,310	2,074	3,520	10,246
5,000-5,999	196	352	1,144	1,057	1,917	6,222
6,000-6,999	90	183	645	581	1,173	4,164
7,000-7,999	53	118	369	397	885	2,746
8,000-8,999	36	62	217	308	526	1,838
9,000-9,999	22	29	157	209	274	1,487
10,000-19,999	39	89	397	552	1,103	5,441
20,000 and over		11	47		341	1,328
Totals	545,700	584,700	605,480	295,950	344,280	415,060
* Excluding proprietary income.						

The changes in the distribution of assessable incomes are perhaps more clearly illustrated by the percentages which appear in the table below.

Amount of Assessable Income	Number of Assessments		Assessable Income			
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
£	£	Per Cent	Per Cent	Per Cent	Per Cent	Per Cent
Under 300	13.29	12.25	10.29	6.23	5.28	3.80
300-499	48.17	42.06	33.69	35.63	29.08	20.14
500-999	31.84	37.38	44.69	37.78	41.14	42.54
1,000-1,999	5.38	6.45	7.85	13.12	14.68	15.20
2,000 and over	1.32	1.86	3.48	7.24	9.82	18.32
Totals	100.00	100.00	100.00	100.00	100.00	100.00

Of the individuals who are included in the preceding tables, the 10 per cent who received the highest incomes had an average assessable income of £2,093 in 1950-51, compared with £1,640 in 1949-50 and £1,405 in 1948-49.

Unearned Income.—The Land and Income Tax Amendment Act 1950 abolished the additional income tax payable on unearned incomes. This amendment became effective for the 1949-50 income year. Income-tax assessments no longer distinguish between earned and unearned income, but as the question of the proportion of unearned income has statistical significance from the incomes aspect, the distinction has been preserved for statistical purposes. The statistical table which follows gives the amount of unearned income. The figures relate to assessable unearned incomes and do not include company dividends, company "proprietary" income, etc.

Earned income was defined as all income derived from any source by a taxpayer (not being a company or a public or local authority) by reason of his personal exertions. Pensions and superannuation were regarded as earned incomes. Unearned income was all income that was not regarded as earned income. It should be noted that workers' compensation payments, war pensions, and social security benefits (except for the universal superannuation benefit which became taxable as from 1 October 1951) are not taxable and are not included in these statistics.

Amount of Assessable Income	Unearned Income*			Proportion of Assessable Income		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
	£	£	£	Per Cent	Per Cent	Per Cent
Under 300	980	960	880	5.3	5.3	5.6
300-399	1,270	1,240	990	2.9	3.4	3.4
400-499	1,280	1,490	1,080	2.1	2.3	2.0
500-599	1,060	1,170	980	2.4	2.1	1.5
600-699	940	900	930	3.3	2.6	2.0
700-799	660	730	780	3.7	3.2	2.6
800-899	580	610	550	4.6	3.5	2.6
900-999	390	590	440	3.9	4.8	2.8
1,000-1,199			800			3.7
1,200-1,399			570			4.0
1,400-1,599	2,430	2,580	460	6.3	5.1	4.1
1,600-1,799			380			4.1
1,800-1,999			350			5.1
2,000-2,999	840	870	1,070	7.2	5.2	4.1
3,000-3,999	399	445	562	8.8	6.2	3.4
4,000-4,999	180	224	449	8.7	6.4	4.4
5,000-5,999	109	165	271	10.3	8.6	4.4
6,000-6,999	48	92	204	8.3	7.8	4.9
7,000-7,999	27	69	141	6.8	7.8	5.1
8,000-8,999	31	48	86	10.1	9.1	4.7
9,000-9,999	13	7	102	11.9	2.6	6.9
10,000-19,999	23	86	313	4.2	7.8	6.1
20,000 and over		5	150		1.5	11.3
Totals	11,260	12,280	12,540	3.8	3.6	3.0

* Excluding proprietary income.

It is obvious from the percentages shown in the table that unearned incomes have not risen to the same extent as earned incomes. Generally the proportion of unearned to assessable income increases as the amount of assessable income grows, although exceptions to this rule will be observed. The higher ratios for the three lowest income groups are mainly attributable to the inclusion of larger than normal numbers of retired persons whose incomes are principally drawn from unearned sources.

Proprietary Income. — There are two factors which must be present before the income of a company can be proprietary income in the hands of the shareholder. The first is that the control must be in the hands of not more than four persons. If this is the case, then the company is a proprietary company. The second factor is that a shareholder of a proprietary company is not a proprietary shareholder unless he is entitled to receive not less than one-fifth of the company's income. Only in the case of a proprietary shareholder in a proprietary company is the shareholder's proportion of the company's residual taxable and non-assessable income transferred to the shareholder's assessment. A proprietary shareholder may be an estate or another company.

Where proprietary income is transferred to the shareholder's assessment that income becomes assessable income in the hands of the shareholder. Any dividends received from the proprietary company are then ignored. The tax is assessed on the taxable balance (including proprietary income), provision being made for a credit in respect of tax already paid on that income by the company. In the statistics such proprietary income is included only in the returnable income. It has been excluded from the unearned, the assessable, and the taxable incomes.

Returnable Income. — In addition to the proprietary income which is included in returnable income, certain classes of non-assessable income are taken into account in determining the amount of tax payable on the balance of the assessable income. The classes concerned mainly comprise dividends from companies trading in New Zealand, interest on New Zealand Government securities issued free of tax, and interest on company debentures issued free of tax or with a floating rate of interest. Company dividends, or proprietary income in lieu of company dividends, are actually by far the largest source of non-assessable income.

Returnable income therefore comprises assessable income plus proprietary income and the classes of non-assessable income mentioned in the preceding paragraph.

The following table gives particulars of the number of assessments and total returnable income of individuals according to size of income for the three latest income years available.

Amount of Returnable Income	Number of Assessments			Returnable Income*		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
	£	£	£	£(000)	£(000)	£(000)
Under 300	71,280	70,240	60,920	18,180	17,930	15,540
300-399	124,200	102,730	82,750	43,900	36,220	29,030
400-499	137,130	141,550	120,280	60,960	63,300	54,210
500-599	80,770	99,400	115,980	43,780	53,950	63,210
600-699	43,390	53,700	70,930	27,880	34,540	45,560
700-799	23,590	31,290	40,540	17,570	23,270	30,200
800-899	14,910	20,370	24,760	12,570	17,200	20,890
900-999	10,090	12,920	16,570	9,530	12,220	15,620
1,000-1,199			20,270			21,930
1,200-1,399			11,400			14,730
1,400-1,599	30,650	39,340	7,820	40,990	52,990	11,680
1,600-1,799			5,670			9,610
1,800-1,999			3,930			7,460
2,000-2,999	6,080	8,000	11,640	14,370	19,070	27,980
3,000-3,999	1,933	2,623	5,616	6,621	9,016	19,286
4,000-4,999	729	1,149	2,700	3,236	5,082	11,979
5,000-5,999	379	523	1,381	2,053	2,850	7,500
6,000-6,999	171	292	778	1,104	1,876	5,033
7,000-7,999	124	189	465	934	1,416	3,468
8,000-8,999	71	121	277	601	1,030	2,345
9,000-9,999	55	51	196	520	485	1,855
10,000-19,999	150	180	527	2,377	2,365	6,872
20,000 and over	150	29	80	2,337	1,011	2,506
Totals	545,700	584,700	605,480	307,180	355,820	428,490

* Including proprietary income.

From a comparison of the foregoing table with that based on the amount of "assessable" income it will be observed that the larger income categories are most affected by the inclusion of non-assessable and proprietary income. For the income year 1950-51 the aggregate of non-assessable, etc., income was £13,430,000. With the exception of £1,320,000 received by those having returnable incomes of less than £1,000, this amount was shared by the medium and higher income groups. The general tendency is for the proportion of non-assessable, etc., income to rise as the total income rises.

Aggregation of Incomes: Husband and Wife. — The incomes of husband and wife are aggregated if (a) they are living together, and (b) the returnable income in each case exceeds £200. The income of the wife is deemed to be the income of the husband, and an aggregate assessment is made in the name of the husband. In such cases a personal exemption of £200 is allowable for the wife, in addition to that allowable to the husband, and also all other special exemptions to which both husband and wife would have been separately entitled. (The 1953 amending Act increases the personal exemption to £230 for the 1952-53 income year and subsequent years). Two separate

general rebates from the amount of tax payable are also allowed. Provision is made for separate assessments if written application is made by either the husband or wife before an aggregate assessment has been made. The total tax payable under the separate aggregated assessments is that payable under the combined assessment, but apportioned between husband and wife according to their respective incomes.

The following table shows the numbers of "aggregate" assessments for the three latest assessment years, according to the amount of assessable income. In this, as in the other tables, an "aggregate" assessment is counted as one assessment only. Each assessment, however, includes two returns of income.

Amount of Assessable Income	Number of Assessments			Amount of Assessable Income	Number of Assessments		
	1948-49	1949-50	1950-51		1948-49	1949-50	1950-51
£	£	£	£	£	£	£	£
Under £500		40	10	1,000-1,999	2,850	3,920	6,440
500-599	890	570	230	2,000-2,999	460	560	690
600-699	3,030	2,510	1,670	3,000-3,999	166	239	411
700-799	3,150	4,220	4,710	4,000-4,999	74	128	201
800-899	1,930	3,670	4,940	5,000-9,999	73	110	277
900-999	1,270	2,360	3,660	10,000 and over	10	17	74
				Totals	13,900	18,340	23,320

There was again a large increase in the number of aggregated assessments in 1950-51. These assessments have more than doubled during the three latest income years.

It should be noted that the above table includes only those cases where there is no election by the husband or wife to receive separate assessments at the rate of tax appropriate to the aggregated taxable incomes. This right of election is frequently exercised, but the actual number of cases is not available from these statistics.

Sources of Income. — In the compilation of the statistics for the years prior to 1948-49 a distinction was made as to the source from which assessable income was derived, incomes being divided into ten groups according to source as follows: (i) salary or wages; (ii) following professional occupation on own account; (iii) commerce, trade, or business; (iv) industry or manufacture; (v) farming; (vi) provision of transport or communication; (vii) building or construction; (viii) mining or extraction; (ix) investments and the like; (x) provision of or engaging in entertainment.

Since the income year 1948-49 incomes from businesses have been classified according to an industry code. Incomes from salary or wages have been analysed into the more important occupations.

The following table shows the distribution of incomes of individuals classified by the principal source groups, and also the average assessable and returnable incomes for the income year 1950-51.

Source of Assessable Income	Number of Assessments	Assessable Income*	Returnable Income	Income Tax Assessed	Assessable Income	Average Returnable Income
		£(000)	£(000)	£(000)	£	£
Agricultural and livestock production—						
Sheep farming	22,540	58,220	58,780	19,000	2,583	2,608
Dairy farming	31,650	27,840	27,920	2,870	880	882
Other	15,070	16,930	17,090	2,850	1,123	1,134
Totals	69,260	102,990	103,790	24,720	1,487	1,499
Forestry, hunting, and fishing	1,210	970	980	110	802	810
Mining and quarrying	440	570	570	100	1,295	1,295
Manufacturing—						
Food, drink, and tobacco	930	850	860	110	914	925
Apparel, textiles, and footwear	1,290	1,140	1,180	160	884	915
Metals and metal products	2,000	1,950	1,980	260	975	990
Other	1,440	1,390	1,440	190	965	1,000
Construction	9,040	7,950	8,070	900	879	893
Electricity, gas, water, and sanitary services	90	70	70	10	778	778
Commerce—						
Wholesale and retail trade	13,710	12,710	13,010	1,730	927	949
Other	950	1,360	1,450	300	1,432	1,526
Transport, storage, and communication	4,340	3,580	3,630	350	815	827
Services, community—						
Professional	5,950	10,030	10,520	2,160	1,686	1,768
Other	6,420	5,270	5,360	620	821	835
Totals	117,080	150,840	152,910	31,720	1,288	1,306
Salary or wages	477,460	256,920	266,240	12,750	538	538
Investment income	10,940	7,300	9,340	1,310	667	854
Grand totals	605,480	415,060	428,490	45,780	686	708

* Excludes proprietary income.

Individuals in the above table whose incomes are derived from sources other than salary or wages, or investment income, are classified according to a slightly modified version of the United Nations industries classification. The United Nations "enterprise" concept forms the basis of the classification. Under this concept, if an individual receives income from two or more of the separately classified industries, the whole of the income is classed as if derived from the industry which provides the largest amount of income, and no attempt is made to allocate the component portions of the income to the different industries from which derived. These statistics are therefore not exactly comparable with most other types of statistics where the "establishment" concept is generally used. This provides for the division of the enterprise into establishments, where more than one separately classifiable industry is carried on, and the establishments are then appropriately classified.

As some indication of the extent to which the figures are affected by the principle of classifying the whole income according to the source of the largest amount of assessable income, source salary or wages includes £3,300,000 unearned income, and source investment income includes £700,000 earned income.

The same principles are followed in the occupational classification of salary or wage earners—i.e., if more than one occupation is involved, the occupation which has produced the largest income is the one which is used for classification purposes.

It will be noticed that the greatest part of non-assessable income—i.e., the difference between the assessable and returnable incomes shown in the above table—is included in the salary or wages group. This is mainly due to the fact that the principal shareholders of companies frequently receive salaries as managing directors or managers of their companies. As such salaries constitute the principal source of their assessable income, these individuals are included in the salary or wages group.

The salary or wage earners in the previous table are analysed in the next table according to the personal occupation followed. The data for the income year 1950-51 are shown for the principal occupational groups.

Occupational Group	Number of Assessments	Assessable Income*	Returnable Income	Income Tax Assessed	Average Assessable Income	Average Returnable Income
Professional, technical, and related workers	32,750	18,450	18,660	980	563	570
Managers, administrators, and officials	20,880	23,250	31,320	4,020	1,114	1,500
Clerical, office, and related workers	79,340	40,340	40,580	1,520	508	511
Salesmen and related workers	33,720	17,360	17,530	690	515	520
Farmers, fishermen, hunters, lumbermen, and related workers	34,760	16,820	16,960	710	484	488
Workers in mine, quarry, and related occupations	5,960	3,370	3,380	140	565	567
Workers in operating transport occupations	26,920	15,400	15,430	590	572	573
Craftsmen, production process workers, and workers in related occupations	136,510	70,970	71,230	2,460	520	522
Manual workers and labourers, n.e.i.	66,660	32,420	32,440	1,010	486	487
Service and related workers	22,330	10,500	10,530	360	470	472
Unknown and unreported occupations	2,600	1,080	1,090	40	415	419

* Excludes proprietary income.

Occupational Group	Number of Assessments	Assessable Income*	Returnable Income	Income Tax Assessed	Average Assessable Income	Average Returnable Income
Armed forces	8,430	4,220	4,220	140	501	501
Not actively engaged	17,540	10,030	12,200	1,390	572	696
Totals	488,400	264,220	275,580	14,060	541	564

* Excludes proprietary income.

The occupational classification used in 1950-51 differs from that previously adopted for these statistics. The former classification was based on the corresponding classification for the 1946 Population Census. The present one was adopted in the interests of international uniformity.

The "not actively engaged" group in this table include those whose principal source of income is interest, rents, etc. The remainder of this group consists of supernannuitants whose assessments are included in the salary or wage group of the source classification.

Exemptions.—In the case of individuals certain statutory deductions are made from the assessable income, and income tax is paid on the balance. Absentees are not usually entitled to the benefit of exemptions other than the personal exemption of £200. The exemptions in force for assessments of the income received during the income year 1950-51 were—

- A personal exemption of £200.
- An exemption of £100 in respect of a dependent husband or wife whose personal income did not exceed £50. The exemption was diminished by £2 for every £1 of the wife's income in excess of £50.
- An exemption not exceeding £100 in respect of a housekeeper employed by a widow, widower, or divorced person to have the care and control of any child or children.
- An exemption for contributions not exceeding £50 towards the support of a relative by blood, marriage, or adoption who was dependent on the taxpayer. Children of the taxpayer were included in this definition. The exemption was not allowed if the relative was in receipt of a monetary benefit (other than a family benefit for children) from the Social Security Fund.
- Life insurance premiums, National Provident Fund, superannuation, and similar contributions. An exemption was allowed up to a maximum of 15 per cent of assessable income or £150, whichever amount was the less.

The Land and Income Tax Amendment Act 1953 increased the personal exemption to £230, the children's exemption to £65, and the maximum exemption for life insurance premiums to £175. This Act also provided for an exemption of £100 for a dependent wife or husband, with the exemption diminishing at the rate of £1 for every £1 of the wife's income in excess of £100.

A tax rebate of £26 was allowed in lieu of the exemption if the exemption for a wife, a housekeeper, or a dependent relative would reduce the amount of tax payable by more than £26 in respect of any such exemption. The tax rebate in lieu of the exemption for a wife operated when the taxable income (the assessable income less any exemptions, including the wife's exemption), plus non-assessable, exceeded £391. In the case of a relative, the tax rebate came into effect when the taxable income plus non-assessable exceeded £2,792. In both these cases it has been assumed that the full exemption of £100 or £50, as the case might be, would apply.

In the statistics the exemptions were applied in the order in which they appear in the foregoing list. For example, a married man with three children was entitled to the following exemptions: personal, £200; wife, £100; relatives, £150; and (say) £25 life insurance premiums, etc. The total exemption was thus £475. Assuming that his assessable income was £440, the exemptions were reduced to a total sufficient to make the taxable balance "nil," and were recorded as personal, £200; wife, £100; and relatives, £140.

The next table shows the aggregate amounts of exemptions allowed for the income year 1950-51.

Amount of Assessable Income	Personal	Wife, Housekeeper	Children and Relatives	Life Assurance, Etc.	Total
£ £	£(000)	£(000)	£(000)	£(000)	£(000)
Under 300	12,390	440	60	160	13,050
300-399	16,670	1,860	780	460	19,770
400-499	24,130	5,660	4,100	980	34,870
500-599	23,430	7,470	6,250	1,510	38,660
600-699	14,670	5,080	4,690	1,410	25,850
700-799	9,080	2,790	2,680	990	15,540
800-899	5,930	1,520	1,570	700	9,720
900-999	4,060	1,010	1,060	520	6,650
1,000-1,199	4,710	1,270	1,320	750	8,050
1,200-1,399	2,490	580	750	500	4,120
1,400-1,599	1,630	40	470	370	2,510
1,600-1,799	1,190		350	290	1,830
1,800-1,999	770	10	230	200	1,210
2,000-2,999	2,310		690	710	3,710
3,000-3,999	1,057	2	97	350	1,506
4,000-4,999	502	1	1	171	675
5,000-5,999	253			91	344
6,000-6,999	142			54	196
7,000-7,999	81			33	114
8,000-8,999	48			19	67
9,000-9,999	36			16	52
10,000-19,999	91			40	131
20,000 and over	12			4	16
Totals	125,680	27,530	25,100	10,330	188,640

The operation of the previously mentioned rule regarding reduction of potential exemptions can be seen in the figures in the above table. In the "under £300" group, the £440,000 allowed as wife's exemption would be increased by approximately £330,000 if the husband's income had been sufficient to allow the full exemption. The actual exemption for children was considerably less than the potential exemption in the £300-£399, £400-£499, and even higher income groups.

The data above do not include exemptions in 29,890 cases where the tax rebate of £26 was allowed in lieu of the wife's or children's exemptions. Details of these rebates are given in a later table.

The relation between the number of children and the amount of income is a matter of some interest. In the next table the number of dependent children in the household who were under the age of sixteen years are given for each assessable income group.

Amount of Assessable Income	Number of Children (Under Sixteen Years)										Total	
	0	1	2	3	4	5	6	7	8	9		10
£ £												
Under 300	57,820	1,830	1,300	640	230	250	120	40	30	20	10	62,300
300-399	70,930	4,700	3,590	2,060	990	490	370	100	70	40	20	83,360
400-499	80,830	14,500	12,960	6,550	2,910	1,480	780	250	260	50	60	120,630
500-599	61,330	20,050	19,120	9,200	4,040	1,760	890	320	150	40	20	116,930
600-699	31,850	12,490	14,310	7,790	3,090	1,290	470	230	130	30	20	71,670
700-799	18,490	7,090	7,710	4,010	2,170	660	350	80	80	20	10	40,670
800-899	12,000	4,010	4,320	2,470	1,210	440	150	50	50			24,700
900-999	7,760	2,920	2,790	2,060	700	230	110	10	10	10		16,610
1,000-1,199	9,330	3,300	3,750	1,940	1,020	370	190	40	40	10		19,990
1,200-1,399	4,900	1,930	1,990	1,150	580	220	70	60	30			10,930
1,400-1,599	3,840	1,020	1,310	810	310	190	50		10			7,540
1,600-1,799	2,680	800	910	640	220	110	40	20	10			5,430
1,800-1,999	1,900	630	440	410	120	80	60	10	10			3,660
2,000-2,999	5,380	1,510	1,910	1,110	520	350	60	50				10,890
3,000-3,999	2,450	689	745	539	272	122	41	11	5	4	2	4,880

Amount of Assessable Income	Number of Children (Under Sixteen Years)										Total	
	0	1	2	3	4	5	6	7	8	9		10
£ £												
4,000-4,999	1,204	304	350	261	118	57	7	6	1	2		2,310
5,000 and over	1,666	338	415	315	166	59	9	5	2	1		2,976
Totals	374,370	78,110	77,910	41,960	18,670	8,160	3,770	1,280	910	200	140	605,480

The amount of assessable income does not, of course, include the social security benefit of £26 per annum for each child under sixteen years. There are 517,250 children represented in the above figures, which therefore fall by a considerable margin to account for all the children in New Zealand who are less than sixteen years. One obvious factor accounting for the omission of children from these statistics is that assessable incomes of less than £200 are not covered. There is, however, evidence which suggests that a considerable number of non-taxpayers claim exemptions for only a number of children sufficient to bring them into the non-taxpaying category, with the result that the numbers of children recorded for the lower income groups understate the true position.

Taxable Income and Tax Assessed.—After all exemptions have been deducted from the assessable income the balance of income (if any) is taxed in accordance with the basic rates plus the percentage addition to basic rates.

The next table gives in respect of individual incomes particulars of taxable income and of tax assessed for the various income categories in 1950-51 and the two preceding income years.

Amount of Assessable Income	Taxable Income			Tax Assessed		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
£ £	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Under 300	3,020	3,050	2,740	50	50	20
300-399	11,810	10,820	9,480	840	800	350
400-499	18,620	20,610	19,490	1,710	1,950	1,360
500-599	15,890	20,100	25,060	1,720	2,190	2,120
600-699	11,940	14,910	20,180	1,510	1,850	2,050
700-799	8,540	11,080	14,750	1,200	1,520	1,700
800-899	6,770	9,230	11,110	1,060	1,380	1,410
900-999	5,370	7,080	9,020	910	1,160	1,260
1,000-1,199			13,560			2,170
1,200-1,399			9,980			1,780
1,400-1,599	28,240	37,020	8,740	6,070	7,670	1,710
1,600-1,799			7,380			1,600
1,800-1,999			5,710			1,320
2,000-2,999	9,930	14,400	22,420	3,110	4,300	6,260
3,000-3,999	4,117	6,550	15,222	1,604	2,432	5,262
4,000-4,999	1,919	3,264	9,571	890	1,432	3,924
5,000-5,999	990	1,802	5,878	511	894	2,716
6,000-6,999	549	1,112	3,968	299	574	1,947
7,000-7,999	379	846	2,632	214	465	1,365
8,000-8,999	295	505	1,771	176	292	959
9,000-9,999	202	264	1,435	119	153	784
10,000-19,999	538	1,073	5,010	346	647	2,886
20,000 and over		837	1,312		211	828
Totals	129,120	164,050	226,420	22,340	29,970	45,780

The numbers of tax rebates granted for the income year 1950-51 are given hereunder. The rebates for wife and children are more or less concentrated in the higher income levels. It is not until the rate of tax reaches a level where the granting of the corresponding exemption would reduce the amount of tax payable by more than £26, that the rebate of £26 is substituted for the exemption. The data in the table are classified by the amount of the assessable income, but the tax rates are actually determined by the amount of the returnable income. This accounts for the presence of a number of these rebates in the lower income classes. The "over 65 years" rebate, however, depends solely on the age of the taxpayer. The proportion of such taxpayers to the total assessments for each income group tends to increase as the income rises.

Amount of Assessable Income	Number of Tax Rebates	
	Over 65 Years	Wife Children
£ £		
Under 300	520	30 20
300-399	1,780	
400-499	3,560	30 10
500-599	3,110	70 10
600-699	1,730	140 20
700-799	1,090	110 10
800-899	860	170 30
900-999	520	260 30
1,000-1,199	590	740 110
1,200-1,399	430	3,370 150
1,400-1,599	460	4,740 170
1,600-1,799	310	3,650 140
1,800-1,999	300	2,560 100
2,000-2,999	670	7,380 780
3,000-3,999	315	3,319 4,609
4,000-4,999	186	1,539 2,902
5,000-5,999	100	747 1,432
6,000-6,999	48	406 805
7,000-7,999	43	222 440
8,000-8,999	24	117 251
9,000-9,999	32	77 178
10,000-19,999	51	195 442
20,000 and over	10	12 4
Totals	16,740	29,890 12,660

Rates of Tax: Individuals.—For the three tax years shown the rate of tax was 2s. 6d. in the £1 on so much of the taxable income as did not exceed £100. For each succeeding £100 or part thereof the rate of tax on that income was increased by 3d. up to a maximum rate of 12s., which was reached at incomes of £3,800. These rates, introduced in 1940-41, are known as basic rates, and are subject to a percentage increase or decrease each year in accordance with the provisions of the Land and Income Tax (Annual) Act fixing rates for that year. An additional tax equal to 33½ per cent of the above rates was imposed on unearned incomes for the first of the three income years shown in the table. This surcharge was abolished from and including the income year 1949-50. The above rates were increased by 15 per cent for the first two of the three income years shown above. There was, however, a limit of 15s. 6d. in the pound. Tax is payable on the amount of the taxable balance, but non-assessable income is included for purposes of determining the actual rate of tax. The method of including non-assessable income is perhaps more clearly explained by means of an example. Assume that an individual had a taxable income of £350 and also non-assessable income of £150. The principle of the application of the basic rates to the assessment is as follows:

	Rate.	
£ £	s.	d.
1 to 100	2	6
101 to 150	2	9

Attributable to non-assessable income and no tax is payable.

	Rate.	
151 to 200	2	9
201 to 300	3	0
301 to 400	3	3
401 to 500	3	6

Attributed to taxable income.

The total tax as calculated is then increased or decreased by the percentage ruling for the particular year. For the income year 1950-51 the percentage increase was 10 per cent.

A rebate of £10, or the amount of tax assessed, whichever was the lesser amount, was allowed to all individual taxpayers for the income years 1948-49 and 1949-50. In 1950-51 the rebate was raised to £15. A taxpayer 65 years of age or over received an additional rebate of £10 for this income year. Aggregated assessments on husband and wife were granted two such rebates.

Geographical Distribution.—The decentralization of the Land and Income Tax Department afforded the opportunity of obtaining data on a geographical basis. The following table shows for the last three available income years the number of assessments and average assessable income for each of the fourteen districts, which are indicated by the name of the town in which the branch office is situated.

Income-tax District	Number of Assessments			Average Assessable Income		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
Whangarei	15,340	17,170	17,410	534	553	620
Auckland	108,690	118,940	121,030	531	553	613
Hamilton	65,080	67,770	71,540	545	613	695
Napier	31,020	30,900	33,850	596	690	859
New Plymouth	19,990	22,250	23,450	572	623	709
Wanganui	16,210	18,050	18,650	542	633	817
Palmerston North	26,880	28,250	29,230	544	611	767
Wellington	90,120	94,680	96,790	536	575	632
Nelson	14,670	16,520	16,510	553	577	655
Christchurch	60,590	65,510	69,500	529	562	642
Greymouth	11,060	11,990	12,110	529	556	602
Timaru	18,160	20,390	20,380	564	637	805
Dunedin	45,600	48,240	49,990	530	573	683
Invercargill	22,290	24,040	25,040	559	646	903
Totals	545,700	584,700	605,480	542	589	686

Preliminary Estimates for 1951-52 and 1952-53 Income Years.—Provisional estimates of the assessable incomes of individuals for the income years 1951-52 and 1952-53 have been prepared and the results are shown in the tables which follow. The estimates have been calculated on the basis of the trends exhibited by a small percentage of the total number of returns for these years. Although salary and wage earners have not, since 1951-52, been required to furnish returns if the income was under £300, the data shown in the tables include estimates of incomes between £200 and £300. The numbers involved in this sample are very much smaller than those which were used for the detailed analysis of the 1950-51 assessments.

These estimates were compiled from returns available at an early date. The sample cases for business returns in particular are inevitably biased to some extent, as those individuals with financial balance dates falling later in the year are not fairly represented.

It is therefore emphasized that the data shown in these tables are provisional only, and are liable to be substantially revised at a later date.

Although figures for three income years are given to afford a convenient comparison of the results for each year, only the two later years have been estimated from the restricted sample. The 1950-51 figures are based on the normal 10-per-cent sample collection.

The movements in the numbers in the farming group are largely arbitrary. With the high wool prices ruling in 1950-51, a number of former mixed farmers were reclassified as sheep farmers as the greater part of the income was derived from sheep farming. Similarly, other types of farmers moved into the "mixed" group, which incidentally is included in the table under the item "other farming." The estimates provide for a reversion to the former classifications as the result of the drop in wool prices in 1951-52.

Wool retention moneys were not included in the assessable incomes of farmers for the income year 1950-51, but any withdrawals from these accounts are incorporated in incomes of subsequent years.

The first table gives data for the principal sources of income of individuals.

Source of Assessable Income	Income Year					
	1950-51		1951-52		1952-53	
	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income
		£(million)		£(million)		£(million)
Sheep farming	22,540	58.2	19,500	35.8	19,700	38.3
Dairy farming	31,650	27.8	32,600	33.9	33,300	40.4
Other farming	15,070	16.9	17,000	18.9	17,200	20.5
Totals	69,260	103.0	69,100	88.6	70,200	99.2
Manufacturing	5,660	5.3	5,600	5.7	5,600	5.8
Construction	9,040	8.0	9,200	8.6	9,500	9.4
Commerce	13,710	12.7	13,900	14.3	13,800	14.8
Transport	4,350	3.6	4,400	4.0	4,600	4.2
Services—						
Professional	5,950	10.0	6,100	11.0	6,200	11.3
Other	6,420	5.3	6,500	5.8	6,600	6.3
Miscellaneous (forestry, mining, etc.)	2,690	3.0	3,100	3.3	3,200	3.4
Totals	117,080	150.8	118,000	141.3	119,800	154.5
Salary or wages	477,460	256.9	490,500	307.7	497,900	330.0
Investment income	10,940	7.3	10,900	6.7	10,900	6.8
Totals	605,480	415.1	619,400	455.7	628,600	491.2

It will be noticed that these estimates provide for only comparatively small increases in the numbers for some of the sources of income in the above table. The principal reason is that in recent years the numbers of companies have risen substantially, with corresponding reductions in the numbers of individuals operating as sole traders or as partnerships.

The following table provides an analysis of the assessable incomes for salary and wage earners over the same period.

Amount of Assessable Income	Income Year					
	1950-51		1951-52		1952-53	
	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income
£ £		£(million)		£(million)		£(million)
Under 300	53,610	13.7	23,300	5.8	19,900	5.0
300-399	73,800	25.9	52,400	18.4	37,200	13.0
400-499	109,320	49.3	75,400	33.9	67,000	30.1
500-599	104,900	57.2	105,300	57.9	94,800	52.1
600-699	60,510	38.8	93,900	61.0	105,900	68.9
700-799	30,500	22.7	56,700	42.5	68,500	51.4
800-899	16,840	14.2	33,800	28.7	42,100	35.8

Amount of Assessable Income	Income Year					
	1950-51		1951-52		1952-53	
	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income
900-999	9,800	9.2	19,200	18.2	24,900	23.7
1,000-1,999	16,190	20.1	28,200	34.7	35,300	43.7
2,000-2,999	1,410	3.3	1,600	3.8	1,600	3.6
3,000-3,999	367	1.2	500	1.6	500	1.5
4,000-4,999	102	0.4	100	0.5	100	0.5
5,000 and over	111	0.8	100	0.7	100	0.7
Totals	477,460	256.9	490,500	307.7	497,900	330.0

A similar table to that immediately preceding but in respect of business incomes (farming, private traders, professional, etc.) is now given.

Amount of Assessable Income	Income Year					
	1950-51		1951-52		1952-53	
	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income
£ £		£(million)		£(million)		£(million)
Under 300	5,240	1.3	5,400	1.3	4,000	1.0
300-399	7,560	2.7	6,400	2.2	5,200	1.8
400-499	9,880	4.5	7,800	3.5	6,600	3.0
500-599	11,290	6.2	9,300	5.1	8,200	4.5
600-699	10,530	6.8	9,500	6.3	8,800	5.7
700-799	9,620	7.2	9,400	7.1	8,400	6.4
800-899	7,530	6.4	8,600	7.3	7,800	6.7
900-999	6,580	6.2	8,000	7.6	7,200	6.8
1,000-1,999	30,290	41.5	38,200	53.1	45,100	62.8
2,000-2,999	9,220	22.2	9,600	22.4	11,800	27.6
3,000-3,999	4,434	15.2	3,200	10.8	4,100	13.6
4,000-4,999	2,145	9.5	1,200	5.3	1,300	5.6
5,000 and over	2,767	21.3	1,400	9.2	1,300	9.0
Totals	117,080	150.8	118,000	141.3	119,800	154.5

The reduced numbers in the higher income brackets of the business sector in 1951-52 were the result of the lower incomes of sheep farmers in comparison with the previous year.

The next table shows assessable income from all sources combined (including investment income).

Amount of Assessable Income	Income Years					
	1950-51		1951-52		1951-53	
	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income	Number of Assessments	Assessable Income
£ £		£(million)		£(million)		£(million)
Under 300	62,300	15.8	32,100	7.9	27,300	6.8
300-399	83,360	29.3	60,900	21.3	44,400	15.5
400-499	120,630	54.4	84,600	38.0	75,000	33.7
500-599	116,930	63.7	115,400	63.4	103,800	57.0
600-699	71,670	46.0	104,000	67.7	115,300	75.0
700-799	40,670	30.3	66,600	50.0	77,400	58.2
800-899	24,700	20.8	42,700	36.3	50,200	42.8
900-999	16,610	15.7	27,400	26.0	32,300	30.7
1,000-1,999	47,550	63.1	67,500	89.2	81,500	108.0
2,000-2,999	10,890	26.1	11,500	26.8	13,700	31.8
3,000-3,999	4,880	16.7	3,800	12.7	4,700	15.4
4,000-4,999	2,310	10.2	1,400	6.0	1,500	6.3
5,000 and over	2,976	22.9	1,500	10.3	1,400	10.1
Totals	605,480	415.1	619,400	455.7	628,600	491.2

COMPANY INCOMES.—It is perhaps desirable to draw attention to the fact that the term "companies" as it is used in connection with these statistics has been given a wider meaning than that which is commonly assigned to it. A definition of the term will be found on page 844.

The various statutory exemptions which are granted to individuals do not apply in the case of companies. The amounts of assessable income and taxable income are identical in the case of companies.

These statistics for companies have been compiled from returns for all companies, and are not estimates based on a sample survey, as in the case of individuals.

The following table gives particulars of the number of taxpayer companies and their aggregate assessable incomes for 1950-51 and the two preceding income years.

Amount of Assessable Income	Number of Assessments			Assessable Income*		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
0-99	1,726	1,979	2,176	63	68	75
100-199	892	999	1,043	132	147	154
200-299	698	814	894	173	200	220
300-399	650	729	711	226	253	248
400-499	562	614	679	250	274	305
500-599	490	589	679	266	320	371
600-699	404	505	554	261	327	359
700-799	391	400	501	291	299	375
800-899	315	358	409	266	303	347
900-999	305	347	379	287	329	360
1,000-1,999	1,957	2,204	2,569	2,770	3,123	3,571
2,000-2,999	970	1,055	1,210	2,374	2,575	2,951
3,000-3,999	580	663	709	2,005	2,293	2,459
4,000-4,999	381	409	484	1,697	1,820	2,167
5,000-5,999	248	301	360	1,363	1,637	1,958
6,000-6,999	177	210	263	1,148	1,360	1,701
7,000-7,999	145	172	193	1,083	1,285	1,443
8,000-8,999	104	124	154	884	1,050	1,305

* Excluding proprietary income.

Amount of Assessable Income	Number of Assessments			Assessable Income ^a		
	1948-49	1949-50	1950-51	1948-49	1949-50	1950-51
9,000-9,999	81	92	102	768	872	968
10,000-19,999	408	449	558	5,605	6,306	7,849
20,000-29,999	156	180	208	3,781	4,364	5,046
30,000-39,999	64	77	96	2,220	2,651	3,305
40,000-49,999	51	67	69	2,245	2,985	3,060
50,000-99,999	111	107	118	7,602	7,505	7,951
100,000-99,999	53	55	68	7,421	7,850	9,418
200,000 and over	25	32	44	9,329	11,354	18,048
Current net loss	2,145	2,085	2,212			
Assessable income before losses	407	523	627			
Totals	14,496	16,139	18,009	54,501	61,548	76,014

* Excluding proprietary income.

The item "assessable income before losses," which appears in the above and also in subsequent tables, requires a little further explanation. Companies, and also individuals, are permitted to offset losses from one particular source of assessable income against the profits from any other source of assessable income during the same income year. The remainder of the loss, if any, can be carried forward and offset against the assessable profits of the next three income years. (The 1953 Amendment Act alters the period to six years.) This item represents the number of companies whose assessable incomes for the current year have been reduced to "nil" by the offsetting of losses incurred in previous income years.

In the following table, which is also classified by the amount of assessable income, more complete data for the 1950-51 income year only are presented.

Amount of Assessable Income	Number of Assessments	Assessable Income Before Losses ^a	Assessable Income ^a	Returnable Income	Current Net Loss	Income Tax Assessed	Social Security Charge
£	£	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
0-99		2,176	98	75	1,018	13	14
100-199		1,043	174	154	330	22	12
200-299		894	234	220	286	33	17
300-399		711	255	248	261	38	21
400-499		679	320	305	332	48	23
500-599		679	381	371	438	60	28
600-699		554	375	359	373	62	27
700-799		501	384	375	387	65	28
800-899		409	357	347	397	62	26
900-999		379	366	360	415	65	27
1,000-1,999		2,509	3,609	3,571	4,288	742	267
2,000-2,999		1,210	2,993	2,951	3,053	750	223
3,000-3,999		709	2,467	2,450	2,573	744	185
4,000-4,999		484	2,186	2,167	2,266	752	163
5,000-5,999		340	1,958	1,958	2,074	780	148
6,000-6,999		263	1,703	1,701	1,780	742	129
7,000-7,999		193	1,441	1,443	1,461	672	108
8,000-8,999		154	1,321	1,305	2,179	620	97
9,000-9,999		102	967	968	1,088	462	71
10,000-19,999		558	7,800	7,849	8,814	3,728	579
20,000-29,999		208	5,053	5,046	5,245	2,413	378
30,000-39,999		96	3,417	3,305	3,443	1,558	247
40,000-49,999		69	3,158	3,060	3,168	1,447	226
50,000-99,999		118	7,949	7,951	8,361	3,773	590
100,000-199,999		68	9,417	9,418	9,831	4,408	704
200,000 and over		44	18,044	18,048	18,666	8,135	1,245
Net loss		2,212			145	2,251	1
Assessable income before losses		6,277	456		85		1
Totals		18,009	76,882	76,014	82,757	2,251	32,196

* This column represents assessable income plus losses which have been carried forward from previous years.

† Excluding proprietary income.

It should be noted that the company proprietary income component of the returnable income in these statistics differs in the case of a company shareholder from what it would be if an individual held the same shares. In both cases the shareholder's proportion of the proprietary company's residual income is transferred to the shareholder's own assessment. The definition of residual income, however, is not the same. When the proprietary shareholder is an individual the residual income of the proprietary company is deemed to be the income after deducting income tax and social security charge payable by the proprietary company. If the proprietary shareholder is a company, the residual income of the proprietary company is deemed to be the income before deducting income tax and social security charge payable by the proprietary company.

For the years prior to 1947-48 the company statistics were also analysed by the source of income, the classification being identical with that listed under "Sources of Income" on page 848. This classification was not particularly satisfactory, and since 1947-48 has been superseded by that given in the next table. The latest classification is a slightly modified version of the United Nations industries classification. The figures in the next table give the results of this classification for the income year 1950-51.

Industry Group	Number of Assessments	Assessable Income Before Losses ^a	Assessable Income ^a	Returnable Income	Current Net Loss	Income Tax Assessed	Social Security Charge
		£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Agriculture and livestock production	454	1,818	1,790	1,872	53	758	137
Forestry, hunting, and fishing	292	933	916	985	74	375	69
Mining and quarrying	198	629	616	627	98	262	44
Manufacturing—							
Food, drink, and tobacco	902	8,225	8,198	8,465	595	3,781	617
Apparel, textiles, and footwear	748	4,139	4,061	4,216	31	1,770	304
Metals and metal products	1,302	4,130	4,068	4,551	104	1,641	294
Other	1,539	8,898	8,734	9,028	141	3,833	657
Construction	969	2,017	2,004	2,056	65	725	151
Electricity, gas, water, and sanitary services	24	292	290	292	13	136	22
Commerce—							
Wholesale and retail trade	6,388	27,842	27,583	28,892	640	11,867	2,081
Other	2,313	14,193	14,121	17,765	107	5,723	931
Transport, storage, and communication	991	1,577	1,483	1,610	228	525	117
Community services	1,885	2,189	2,147	2,396	103	802	160
Other	4		1		1		

* This column represents assessable income plus losses which have been carried forward from previous years.

† Excluding proprietary income.

Industry Group	Number of Assessments	Assessable Income Before Losses ^a	Assessable Income ^a	Returnable Income	Current Net Loss	Income Tax Assessed	Social Security Charge
Totals	18,009	76,882	76,014	82,757	2,251	32,196	5,584

* This column represents assessable income plus losses which have been carried forward from previous years.

† Excluding proprietary income.

Rates of Tax: Companies.—For incomes received during the income year 1950-51 the standard rate of tax payable by a company was 2s. 6d., increased by 1/100th for every £1 of taxable income up to £6,300. Above £6,300 the above rate was 7s. 9d., increased by 1/100th for every £1 of taxable income in excess of £6,300, with a maximum of 8s. 8d. in the £1. In addition to the foregoing, a further amount equal to 10 per cent of the above rates was imposed. Social security charge is levied at the normal rate of 1s. 6d. per £1 of income. Not all companies are liable to pay this charge. Further information concerning rates of taxation will be found on page 717.

The concepts adopted in applying the industry classification to the incomes of individuals have been mentioned on pages 849-850. The same principles are used in the classification of company incomes.

The next table shows some additional data concerning companies, which were compiled principally in connection with national income statistics, but which are also of more general interest.

Industry Group	Stocks at End of Period	Income From			Salaries and Wages	Interest Paid	Rent Paid	Depreciation	Gross Profit	
		Sales	Interest						£(000)	£(000)
		£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)	£(000)
Agriculture and livestock production		2,351	5,537	21	16	1,073	82	74	181	3,913
Forestry, hunting, and fishing		836	10,581	16	64	3,221	357	246	298	2,527
Mining and quarrying		288	12,691	10	53	3,980	19	58	443	2,099
Manufacturing—										
Food, drink, and tobacco		25,837	205,116	103	189	16,915	414	382	2,217	24,641
Apparel, textiles, and footwear		12,766	51,543	38	67	11,259	271	365	889	9,836
Metals and metal products		10,080	48,503	41	117	13,095	249	299	866	11,211
Other		17,697	88,791	127	196	17,892	457	471	2,236	21,590
Construction		5,557	25,924	51	89	6,845	148	94	480	5,665
Electricity, gas, water, and sanitary services		355	6,421	5	44	1,402	1,649	3	705	2,367
Commerce—										
Wholesale and retail trade		82,336	499,285	482	720	35,851	1,292	2,315	2,859	81,178
Other		8,239	68,288	15,598	2,444	13,414	4,709	356	1,011	6,754
Transport, storage, and communication		419	24,314	55	164	8,422	138	153	1,619	
Community services		868	22,394	98	1,182	6,694	144	835	552	4,369
Other or undefined		15	41			5	1			9
Totals		167,643	1,069,430	16,646	5,345	140,071	9,929	5,653	14,337	176,159

* Gross profit not normally available.

It may be not out of place to mention a few of the background factors which have some relevance in the interpretation of these statistics. Except for the farming industry, professional services, etc., where the company form of ownership is the occasional exception rather than the rule, the larger enterprises in the business sector are almost invariably companies. Companies with operations on a smaller scale are, however, well represented.

The stocks at the end of the period are trading stocks, and in the farming industry the value of livestock, mostly based on a standard value from year to year, is included.

Salaries include sales of goods and sales of services. The income from sales and services is the net price to the customer, whether wholesaler, retailer, or ultimate consumer, for the goods and services. The total of this column is therefore merely an aggregate of transactions measured at various wholesale and retail prices. It should also be remembered that a substantial proportion of the food-manufacturing group consists of butter, cheese, meat, etc., which are sold overseas.

There is a tendency in company accounting to show merely the difference between interest received and interest paid as either a debit or a credit balance in an interest account. This remark also applies to rents received and paid. The figures shown under these headings will undoubtedly understate the true position to some extent. Incidentally rents include ground rents and royalties.

Salaries and wages paid represent the amounts charged against those accounts. A small proportion of salaries and wages is charged directly to other expenditure accounts, and consequently the figures shown above understate to some extent the amounts of salaries and wages actually paid by companies.

The amount of gross profit shown in the accounts is used in these statistics, despite the wide variations in the conception of gross profit. No attempt has been made to secure uniformity of calculation for individual companies, but of course the total gross profit for each industry will correspond with that industry's average conception of gross profit. In some industries, such as the transport industry, it is not normal practice to calculate gross profit, and in such cases the gross profit is recorded in these statistics as "nil". Estimates of the amount of gross profit were, however, made when any company did not calculate the gross profit, and it was the custom of the industry concerned to show this figure.

The abridged version of the full industry classification for which data are given in this Section does not reveal the individual industries where the gross profit is "nil". The amounts of sales and services, and assessable incomes for the "no gross profit" industries, are included in the industry groups data as follows:

Industry Group	Sales and Services	Assessable Income
	£(000)	£(000)
Commerce, other	27,860	10,408
Transport, storage, and communication	24,314	1,483
Services, community	9,379	1,131

The results of an extension of the inquiry to cover paid-up capital and shareholders' funds are given in the two following tables.

—	Number of Assessments	Assessable Income ^a	Dividends Paid		Shareholders' Funds	
			£(000)	£(000)	Total	Paid-up Capital
		£(000)	£(000)	£(000)	£(000)	£(000)
Agriculture and livestock production	454	1,790	297	6,514	4,061	
Forestry, hunting, and fishing	292	916	255	5,949	3,970	
Mining and quarrying	198	616	119	4,688	3,315	
Manufacturing—						
Food, drink, and tobacco	902	8,198	1,652	40,137	24,028	
Apparel, textiles, and footwear	748	4,061	1,017	15,945	9,020	
Metals and metal products	1,302	4,068	1,207	20,068	10,581	
Other	1,539	8,734	2,090	38,668	24,983	
Construction	969	2,004	599	6,493	3,125	
Electricity, gas, water, and sanitary services	24	290	47	6,679	1,651	
Commerce—						
Wholesale and retail trade	6,388	27,583	6,883	101,978	55,238	
Other	2,313	14,121	2,739	112,558	50,649	
Transport, storage, and communication	991	1,483	608	13,251	10,524	
Community services	1,885	2,147	708	14,725	5,761	
Other or undefined	4	1		6	6	
Totals	18,009	76,014	18,181	387,659	206,912	

* Excluding proprietary income.

For the purposes of these statistics, the shareholders' funds of a company are defined, briefly, as the amount which would be available to shareholders if the assets were realized and the liabilities discharged at the net values shown in the balance sheet. In the case of New Zealand branches of overseas companies, either the paid-up capital and the shareholders' funds are apportioned on some equitable basis, or the balance of the branch's head office account is taken. The capital loan liabilities of those Government Departments which are included in these statistics have been omitted from both, paid-up capital and shareholders' funds.

An analysis of companies by amount of paid-up capital discloses the position shown in the next table. Those with no paid-up capital are mostly industrial and provident societies, clubs, associations, and similar incorporated bodies.

Amount of Paid-up Capital	Number of Returns	Paid-up Capital	Shareholders' Funds
£ £		£(000)	£(000)
Nil	1,062		17,105
0-499	1,276	290	2,419
500-999	1,824	1,170	4,192
1,000-1,999	3,588	4,604	11,364
2,000-2,999	2,361	5,352	11,545
3,000-3,999	1,554	4,955	9,173
4,000-4,999	956	4,032	7,492
5,000-5,999	1,010	5,160	9,765
6,000-6,999	608	3,749	6,705
7,000-7,999	397	2,888	5,250
8,000-8,999	326	2,678	4,610
9,000-9,999	186	1,713	2,707
10,000-19,999	1,413	17,907	31,380
20,000-29,999	509	11,748	19,897
30,000-39,999	235	7,799	11,981
40,000-49,999	117	5,036	10,124
50,000-59,999	118	6,260	12,897
60,000-69,999	57	3,592	7,155
70,000-79,999	61	4,621	7,380
80,000-89,999	32	2,659	6,044
90,000-99,999	15	1,398	3,864
100,000-199,999	139	17,621	28,644
200,000-299,999	55	13,053	19,229
300,000-399,999	37	12,139	18,150
400,000-499,999	16	7,005	11,681
500,000-599,999	14	7,197	11,330
600,000-699,999	7	4,958	10,294
700,000-799,999	7	5,322	7,933
800,000-899,999	4	4,875	6,716
900,000-999,999	5	4,672	10,228
1,000,000 and over	20	32,459	60,406
Totals	18,009	206,912	387,659

The expressed and derivable figures in the preceding tables have been summarized, in a closer approach to a more conventional accounting form, in the following table, which covers the income year 1950-51.

INCOME YEAR 1950-51

	£(million)	£(million)
Sales and services		1007.8
Increase in stocks		31.1
		1038.9
Less—		
Salaries and wages	60.7	
Other trading and manufacturing charges (including purchases)	802.0	862.7
Gross profit		176.2
Sales and services (other companies)		61.6
Interest received		16.6
Gross rents received		5.3
Dividends from other companies (estimated)		3.6
Less—		263.3
Salaries and wages	79.4	
Interest	9.9	
Rents	5.7	
Depreciation	14.3	
Other charges	75.8	
		185.1
Net income		78.2
Disposal of net income—		
Income-tax		32.2
Social security charge		5.6
Dividends		18.2
Branch profits remitted overseas		0.7
Net additions to shareholders' funds		21.5
		78.2
* Sales and services of companies engaged in industries where the accounts normally show "gross profit"		

The "net income" is calculated by adding estimated "dividends from other companies" to the "assessable income before deducting past losses" and then subtracting "net loss"—i.e., the loss for the current income year. The figure for branch profits remitted overseas has been taken from the statistics of overseas private investment in New Zealand and does not include branch profits of banks. As a residual item "net additions to shareholders' funds" is an approximate figure only. One assumption involved in the definition of the "disposal of net income" section is that companies create reserves out of current income for the payment of the income-tax and social security charge which will be assessed on that income.

NON-RESIDENT TRADERS.—A non-resident trader is defined as any person who, being in New Zealand, carries on business there without having any fixed and permanent place of business or abode in New Zealand. Returns made by agents for non-resident traders, and returns by the consignees of overseas goods sold on consignment account, are included in this class. Non-resident traders are now included in the statistics either as individuals or companies, as the case may be.

STATISTICS OF THE 1951 CENSUS.—The following explanatory matter and table in regard to income is given in the present context since it shows incomes over a wider field than is available from other sources.

Incomes.—The table below gives for 1945 and 1951 censuses the number of persons whose stated income fell into one or other of the income groups listed. For both censuses members of the Armed Forces overseas have been excluded. The 1945 census also excludes Maoris, as the schedule used for Maoris on that occasion did not include this question; in 1951 only one schedule was used for the whole of the population. A separate compilation for Maori incomes has not yet been done.

In addition to the income classification of the total population, a similar classification is given covering all those persons actively engaged in some form of industrial activity. The latter group includes any persons who may be temporarily unemployed.

The period for which income was requested in the 1951 census schedule related to the twelve months ended 31 March 1951, and for the earlier census the twelve months ended 31 March 1945. In both censuses where particulars were not available for the precise period, provision was made to accept information covering the nearest twelve-month period instead.

Income Group	Persons Actively Engaged			Total Population		
	Males	Females	Total	Males	Females	Total
<i>1951 Census (Including Maoris)</i>						
£ £						
Nil	2,641	2,150	4,791	365,756	608,090	1,063,846
1 to 24	2,240	2,990	5,230	9,201	28,059	37,260
25 to 49	3,299	4,583	7,882	7,774	17,083	24,857
50 to 99	6,014	8,149	14,163	12,305	23,120	35,425
100 to 199	29,638	39,672	69,310	36,154	58,018	94,172
200 to 299	47,242	57,070	104,312	52,577	66,731	119,308
300 to 399	80,287	32,134	112,421	84,181	36,877	121,058
400 to 499	139,717	10,995	150,712	142,115	13,199	155,314
500 to 599	100,717	4,111	104,828	102,177	5,475	107,652
600 to 699	49,402	1,685	51,087	50,228	2,494	52,722
700 and over	102,036	3,560	105,596	104,913	6,711	111,624
Not specified	5,740	4,434	10,174	6,587	9,647	16,234
Totals	568,963	171,533	740,496	973,968	965,504	1,939,472
<i>1945 Census (Excluding Maoris)</i>						
Nil	7,871	5,908	13,779	240,001	505,736	745,737
Under 50	7,058	8,539	15,597	11,529	39,349	50,878
50 to 99	16,538	22,251	38,789	48,930	86,321	135,251
100 to 199	65,546	74,832	140,378	80,697	106,427	187,124
200 to 299	87,026	33,030	120,056	95,350	45,362	140,712
300 to 399	116,234	7,586	123,820	120,582	11,524	132,106
400 to 499	68,141	2,653	70,794	70,148	4,326	74,474
500 to 599	29,234	982	30,216	30,319	1,873	32,192
600 to 699	13,876	474	14,350	14,479	1,071	15,550
700 and over	37,783	1,678	39,461	39,911	3,946	43,857
Not specified	23,038	5,106	28,144	30,656	15,017	45,673
Totals	472,345	163,039	635,384	782,602	820,952	1,603,554

Chapter 36. SECTION 36—PRICES

Table of Contents

PRICE FIXATION.—In New Zealand, as in other countries, regulation of prices by governmental control has been a feature of economic policy over a considerable period of years. Nation-wide control of prices of essential commodities was resorted to during the First World War, the motives behind legislation and regulations towards that end being the necessity of purchasing at reasonable prices commodities required for war purposes, and the protection of the consumer from the full force of the abnormal rises in prices, caused by the scarcity of many necessary commodities.

The administration of these price-fixing measures was in the hands of the Board of Trade set up under the provisions of the Board of Living Act 1915, regulations being issued from time to time fixing maximum prices for various commodities—e.g., sugar, timber, wheat, etc. The Board of Trade Act 1919 (a consolidation and amendment of the pre-existing legislation) contained provisions for the establishment of the Department of Industries and Commerce and for a Board of Trade, the Board to consist of the Minister of Industries and Commerce (President) and not more than four other members. By an amendment in 1923 the Board was abolished, its functions being taken over by the Minister. Authority was also taken under the Act "for the establishment of fixed minimum or maximum prices or rates for any classes of goods or services or otherwise for the regulation or control of such prices or rates." The Act also included provisions especially aimed at the prevention of profiteering.

The control of prices initiated during the war years continued in some instances well into the post-war period, the dates of cessation of control in certain important individual cases being: bacon and ham, February 1920; butter, August 1921; sugar, August 1923. Control of prices of building materials was resorted to in 1920 and 1921, during a period of acute shortage of these materials.

Wheat, flour, and bread prices have been controlled almost without intermission since 1914-15, superphosphates since October 1931, and motor spirits from 1933. Road services have been subject to regulation in regard to fares and freight rates since 1931; aircraft fares are also regulated. [For fuller details see pp. 785-786 of the 1940 Year-Book.]

A Prevention of Profiteering Act was passed in 1936, prohibiting the making of unreasonable increases in the prices charged for goods and services.

In June 1939 a Price Investigation Tribunal was constituted under the Board of Trade Amendment Act 1923, and regulations were made under this Act placing restrictions on increasing prices of goods and services without prior application to the Tribunal; prices were also to be fixed by the Tribunal for goods that had not previously been on the market.

Price Regulation During Second World War.—Pursuant to a Proclamation of Emergency under the Public Safety Conservation Act, regulations were made on 1 September 1939 with the object of stabilizing prices. These regulations provided that prices of goods and services should not be raised above the prices ruling on 1 September 1939, except as might be specifically authorized by the Minister of Industries and Commerce. A clause in the regulations also prohibited the hoarding of goods. These regulations were superseded by the Control of Prices Emergency Regulations of 20 December 1939, which constituted the Price Tribunal.

Foodstuffs generally, and sugar, wheat, and flour specifically, were brought under the control of the Government by emergency regulations made on 4 September 1939.

In October 1940 the Economic Stabilization Conference (which the Government had convened) put forward recommendations designed to stabilize prices, wages, and costs. In furtherance of these recommendations the retail prices of thirty-eight commodities, comprising the more important foodstuffs, clothing, fares, fuel, and lighting, were stabilized as from 1 September 1941, and an Economic Stabilization Committee was set up.

In December 1942, as a result of the deliberations of this Committee, price stabilization measures were widely extended. A varied range of essential items of household consumption was selected, and their prices stabilized; food, clothing, hardware, furniture, stationery, etc., were all represented.

in this list of approximately 110 items. In the same month the Economic Stabilization Emergency Regulations 1942 were issued, under which the Committee was reconstituted as the Economic Stabilization Commission, and provision made for the stabilization of weekly rentals, wage rates, etc.

The principal new feature of price control in 1943 was the fixation of maximum retail prices for many kinds of vegetables, apples, pears, and certain other fruits; these maxima made full allowance for seasonal variations.

No new element of control was introduced in 1944, 1945, or 1946, as the price orders of those years either revised earlier orders or covered additional items.

POST-WAR PRICE REGULATIONS.—The Control of Prices Act 1947 consolidated the powers and functions formerly exercised mainly under Emergency Regulations. It defined the general duties and functions of the Price Tribunal as the fixing of prices for goods and services, the investigation of complaints with respect to prices, the maintenance of a survey of the prices of goods or services, the institution of legal proceedings for offences in relation to prices, and the taking of such other steps as in its opinion might be necessary to prevent profiteering or the exploitation of the public. It provided that, except in special circumstances, the sittings of the Tribunal should be open to the public.

The Price Tribunal has power to—

1. Make Price Orders fixing, in such manner as it thinks fit, the actual or the maximum or the minimum price for any goods sold in a specified market and under specified conditions. Price Orders are published in the *New Zealand Gazette*, and must generally be displayed in any shop where the goods to which they relate are sold.
2. Authorize selling prices, which may be of general or special application.

Since the passing of the Act the Tribunal has, in the case of many commodities, issued Price Orders which prescribe that maximum prices are to be calculated by adding specified percentages to costs. In other cases General Price Adjustment Orders have been made (the latest of which was issued in November 1953) in respect of certain classes of goods, permitting manufacturers or vendors to recover by means of price increases the whole or a specified part of their increased costs resulting from the reduction or removal of subsidies, the raising of freight charges, or certain wage increases prescribed by specified general orders of the Court of Arbitration.

From the end of 1948 a policy of progressive decontrol has been followed: lists of items freed from direct price fixation have been published from time to time, but all goods and services not specifically exempted in this manner have remained subject to control. In November 1953, however, power was provided under an amendment to the Control of Prices Act to issue a list of goods and services subject to price control.

The same amendment also made provision for the delegation of pricing powers to the Secretary of Industries and Commerce, subject to a right of appeal to the Tribunal.

Towards the end of 1951 an Advisory Committee, consisting of representatives of the business community meeting under the chairmanship of the Director of Price Control, was set up to advise on matters of procedure and administration, and to promote mutual confidence and understanding.

It should be observed that certain prices controlled under other legislation do not come within the scope of the Control of Prices Act 1947. For example, wholesale prices of butter and cheese for local consumption are fixed by Orders in Council under the Marketing Act 1936; the maximum price of motor spirits by Order in Council (on the recommendation of the Minister of Industries and Commerce) under the Motor Spirits (Regulation of Prices) Act 1933; while the Tenancy Act 1948 and its amendments provide for the fixation, on application, of fair rents by a Magistrate's Court. As a further illustration the Transport Amendment Act 1950 provides for the fixation of passenger fares and freight charges on services, other than those operated by local authorities, by the Commissioner of Transport, subject to a right of appeal to a Transport Charges Appeal Authority.

Although the earlier legislation providing for an Economic Stabilization Commission was repealed in the Economic Stabilization Act of 1948, there are at present (April 1954) no appointed members of the Commission, its functions being discharged by the Minister in Charge of Stabilization, except that those functions of the Commission relating to the marketing and prices of primary products are now dealt with by the Marketing Advisory Council, an *ad hoc* body which meets as required and advises the Minister of Agriculture.

SUBSIDIES.—It is clear that for the effective operation of the policy of price stabilization a system of Government subsidies has been essential. An account of the use and extent of subsidies paid in 1942-43 and from 1947-48 to 1951-52 was given in parliamentary paper B-5 of 1952. The following table is chiefly extracted from that publication, but has been brought up to date by the inclusion of corresponding figures for 1952-53 and 1953-54.

Subsidy Payments	Year Ended 31 March							
	1943	1948	1949	1950	1951	1952	1953	1954
	£(000)							
Shipping, transport, and incidental	27	3,075	2,585	1,559	73	1,106	381	
Coal production and distribution	356	1,479	1,845	2,890	487	9	100	
Primary production	1,315	2,400	533	727	874	1,054	634	*495
Essential clothing and foodstuffs—								
Clothing		1,064	809	1,483	2,306	1,857	150	4
Dairy produce		2,247	3,364	4,357	3,369	5,824	7,660	3,688
Other ²	1,271	2,247	1,192	1,065	139	64	21	33
Wheat	583	1,941	1,200	2,718	2,000	4,463	4,826	2,001
Miscellaneous	121	140	136	44	116	938	943	233
Total subsidies, gross (March year)	3,673	14,593	11,664	14,843	9,364	15,315	14,715	14,451
Less recoveries from farm industry stabilization accounts (July year)	413	1,015	190	394	672	626	365	365
Subsidies, net ³	3,260	13,578	11,474	14,449	8,692	14,689	14,350	14,086

* Includes meat, sugar, tea.

² Although subsidies are shown for March years and recoveries for July years, the final figures shown for "Subsidies, net" represent a fair approximation to general subsidies paid each year.

The general position is that stabilization subsidies increased up to 1947 as import prices and wages rose. The full increase in costs above basic level (mainly 15 December 1942) has not always been covered by subsidy. In most cases a part of the increased cost has had to be borne by the industry concerned, either at the source of the increased cost or at some later stage in the distribution of the goods and services.

In 1947 the Government decided to review the position. The number of commodities on which subsidy was paid had grown too large for administrative ease. Also to have continued subsidies at the previous rate would have raised the estimated expenditure to £19.6 millions, which would have imposed a severe strain on the public finances. Further, a great many of the costs met by subsidy were permanent. According to many farm subsidies, which on an annual basis cost approximately £4.2 millions, were removed, and compensating adjustments were made in the prices of farm products. Of the other subsidies, all the smaller and less important ones were abolished, in part or in full. There were also increases in the price of shipping and railway freights and fares, tea, sugar, and many other commodities. On an annual basis these subsidies would have cost about £8 millions.

In spite of the removal in 1947 of total subsidies of over £12 millions a year, the cost of the remaining subsidies had risen to a level of over £17 millions a year by 1950. The Government therefore removed subsidies in May 1950 amounting to £12 millions a year. The subsidies on coal and tea were abolished, and subsidies on flour, bread, milk, butter, and eggs were reduced substantially. In addition, rail freights and fares were again increased. In September 1951 the retail prices of butter, bread, flour, and gas were substantially reduced, the subsidies on these commodities being adjusted accordingly. By mid-1952 subsidy expenditure was running at the annual rate of £17.5 millions. Following upon the general wage order of November 1953 (see page 899) the position was again reviewed. It was decided that the maintenance by items of price levels previously subsidising would have entailed too great a burden on the public funds, and accordingly the prices of subsidized items, particularly bread, butter, and milk, were allowed to rise. Nevertheless these subsidies still carry heavy subsidies, as is indicated in the following table, which shows the amount of subsidy paid on the main commodities in April 1954.

	s.	d.
Butter	1	0.25 per lb.
Milk	0	3.5 per quart.
Bread	0	3.75 per 2 lb. loaf.
Flour	6	0 per 25 lb. bag.
Gas	2	0 per 1,000 cubic feet.
Eggs	0	7 per dozen.

* Including 4d. per dozen egg floor subsidy and 3d. per dozen imported wheat subsidy.

MARKETING OF MAJOR PRIMARY COMMODITIES.—Certain fields of price fixation are intimately connected with the functions of the marketing authorities (and with the functions of the former Marketing Department), although the relevant price orders are generally issued by the Price Tribunal.

Government Marketing.—The Marketing Department was established by the Marketing Act 1936, which transferred to it many of the functions previously exercised by the New Zealand Dairy Board, and made provision for the compulsory acquisition by the Department at prices fixed by it of butter and cheese for export, following in 1937 set up the Internal Marketing Division of the Marketing Department, with power to control wholesale and retail prices of eggs, fruit, and honey, as well as dairy produce, while subsequent regulations added other commodities, notably meat, wool, hides, wire, galvanized iron, and industrial and farming machinery. The Department's functions were by no means fully exercised in respect of these commodities. Control of prices of export meat was assumed by the Marketing Department under the authority of the Marketing Act 1939, meat marketing orders being issued annually until 1947, and again from 1949 to 1953. The Milk Act 1944 created the Milk Marketing Division of the Marketing Department. In a relatively minor but financially substantial field the Marketing Department operated wartime-built processing factories at Motueka and Pukekohe, administered supplies for Government institutions, the hiring of storage space to commercial interests, as well as providing staff and facilities for the Armed Forces Canteen Council, and maintained liaison with various marketing organizations.

By the Marketing Amendment Act 1948 the Export Division, the Internal Marketing Division, and the Milk Marketing Division were abolished as separate divisions of the Marketing Department. With the industry bodies assuming control of the marketing of their produce progressively from 1947 onwards, by 1953 the remaining functions did not justify the retention of a separate Department, and provision was made in the Marketing Amendment Act 1953 for the abolition of the Marketing Department and the transfer of its remaining functions to the Director-General of Agriculture. By the beginning of December 1953 arrangements had been made in respect of these functions, and since then the Marketing Division of the Department of Agriculture has relinquished all active participation in the marketing processes. A brief description of the transfer of functions from the former Marketing Department to industry bodies, as affecting certain commodities, is given in the following pages.

The general policy of State marketing of primary products has exhibited four phases:

1. The original tendency was for the State to trade directly, buying products outright, bearing losses, and retaining profits.
2. This was followed by the formation of financial pool accounts for each industry, the profits, subject to the general policy on stabilization, being paid out to the suppliers, and any reserves held for the benefit of the industry.
3. The third phase has been the direction of policy by boards and committees with the assumption of executive, and not as previously merely advisory, powers. Each body continued to use the marketing organization for assembly, storage, transport, distribution, and accounting, which the Department had built up, these services having been made available at cost.
4. The fourth phase has been the progressive transfer to various boards or authorities, representative of the industries concerned (with Government representation to protect consumer interests), of the responsibility and authority for the effective marketing of their own products.

Marketing Authorities, General.—In addition to the specific statutes authorizing the industry body concerned to carry out marketing functions for certain major commodities—e.g., dairy produce, meat, potatoes, apples and pears, milk—an Act passed in 1953, entitled the Primary Products Marketing Act 1953, authorized the setting-up of other marketing authorities by Orders in Council. The Minister was required to be satisfied that a large majority of the producers in the industry concerned desired to have an authority established, and provision was made for the protection of consumer interests by the appointment of experienced Government representatives to such authorities. Other protection measures included provision for consultation between the Minister and the various boards or authorities, empowering the Minister to give directions on matters of Government trade policy, the presentation of annual reports to Parliament by each body, and by Government audit of their accounts.

Under the provisions of the 1953 Act the following industries have had authorities established: eggs and egg products, New Zealand lemons growing, and the honey industry.

Dairy Produce.—Provision was made in 1936 for the compulsory acquisition by the Marketing Department, at prices fixed by it, of butter and cheese for export, and also in 1937 for consumption in New Zealand. By the Dairy Products Marketing Commission Act 1947, however, these functions, as regards butter and cheese for export (later extended to cover all dairy produce for export) were transferred to the New Zealand Dairy Products Marketing Commission. By the same Act the control and regulation of butter and cheese for local consumption was also transferred to the Commission.

Meat.—Control of prices of export meat was assumed by the Marketing Department in 1939. As from 1 May 1948, however, the New Zealand Meat Producers Board (constituted by the Meat Export Control Act 1921-22) was entrusted with routine administration of shipping and payments to freezing companies for all meat destined for export under bulk purchase agreements negotiated by the Government with the United Kingdom (see Section 19).

Apples and Pears.—Apples and pears are purchased from growers by the New Zealand Apple and Pear Marketing Board. This Board was set up in 1948, in terms of the Apple and Pear Marketing Act 1948, to take over direction of the acquisition and marketing of the apple and pear harvest. It administers a guaranteed price scheme based on the cost of production of apples and pears. This price is a New Zealand average, and within it prices to growers vary for the different varieties, grades, type of packs, and sizes. The Board is charged with the duty of recovering from the market these prices together with the costs of marketing. It determines the wholesale prices at which fruit is sold by authorized wholesalers to retailers, but there is no control by price order at either the wholesale or the retail level. The Board has set up its own marketing organization and took over direct control as from 1 December 1953.

Orchardists are permitted to sell direct to consumers in lots of not more than two cases at one time, and factories may be licensed by the Board to purchase their requirements direct from growers, though in some cases the Board itself purchases the fruit and re-sells it to the factory. With these exceptions all fruit must be offered to the Board, which must accept it if it comes within the scope of the New Zealand Grower Fruit Regulations 1952, which sets standard grades with which the packed fruit must conform. Officers of the Department of Agriculture inspect the fruit and if it complies with these standards the fruit becomes the property of the Board. The Board decides what proportion of the fruit is to remain in New Zealand and what proportion is to be exported, and arranges for the storage and release of varieties according to their condition and keeping capacity, in order to make fruit available for as long a period as possible during the year. The Board has purchased the greater part of the facilities previously owned by the Government situated in fruit-growing districts, consisting principally of stores and cool stores and sundry ancillary equipment such as motor trucks and mechanized handling equipment.

Potatoes.—Commencing during the war period, the Marketing Department let contracts to ensure an adequate supply of main crop potatoes for local consumption. The last such contracts were let for the 1950-51 season. In August 1950 Parliament passed the Potato Growing Industry Act, which established a Potato Board. This Board has assumed the relevant functions previously exercised by the Department.

Milk.—The Milk Marketing Division (of the Marketing Department) was created in 1944, and provision was made for an extension of the existing system of local control in regard to the sale of milk. The Milk Amendment Act 1953, however, authorized the New Zealand Milk Board to act as the agent of the Government in the administration of the National Milk Scheme and the School Milk Scheme, and in the operation of certain treatment stations previously operated by the Government. Retail prices are fixed by Price Order. The price for the milk to the producer is negotiated between the Government and the Town Milk Producers Federation of New Zealand. Intermediate margins, such as those for chilling and bottling milk and to vendors for its delivery, are fixed with the bodies representing these parties. The total cost at the present time exceeds the amount paid by the consumers, the balance being met by subsidy. It is the function of the Milk Board to administer the whole town milk scheme on behalf of the Government which, however, retains a direct interest by virtue of the substantial sum still paid in subsidy.

Eggs.—The marketing of eggs and egg products was formerly controlled by the National Egg Marketing Committee, set up under regulations issued in 1951 and amended in 1952. Private firms in various towns and cities were licensed by the Minister of Marketing to receive and sell eggs on commission and to manufacture and sell egg pulp. The prices paid to the poultrykeepers were those fixed from time to time by the Minister on the Committee's recommendation, while the wholesale and retail selling prices to the public were fixed by price order. It was the responsibility of the Committee to obtain from the market the average cost of production for the producer. It operated by adjusting prices, by deciding the proportion of eggs for pulping, and by instituting economies in marketing; it also administered funds collected from the producers by means of levies on feed and eggs, applying these towards meeting administrative costs and marketing expenses.

The New Zealand Egg Marketing Authority is the successor with autonomous powers to the National Egg Marketing Committee. It operates principally through licensed distributors in the various districts who, on commission, receive and re-sell eggs, or, as directed by the Authority, manufacture egg pulp for the use of bakers and pastry cooks. The poultry industry does not enjoy a full guaranteed price from the Government, but, within limits fixed by the assessed costs of production, is free to recover these costs from the market. A subsidy, at present at the rate of 4d. per dozen, is paid by the Government in respect of eggs received at authorized egg floors (as the licensed distributors are known). The Authority has, with the approval of the Minister, delegated its powers in the daily supervision of the details of egg and egg pulp marketing to a Committee of four persons, one each nominated by the Provincial Councils of the New Zealand Poultry Board.

Imported Citrus Fruits and Bananas.—The control and distribution of bananas and imported citrus fruits were placed in the hands of the Internal Marketing Division in 1938, pineapples being added in 1940. Since the beginning of 1951, however, the importation and marketing of imported citrus fruits, bananas, and pineapples have been taken over by a registered company, Fruit Distributors, Ltd., representing trade interests.

New Zealand Lemons.—The New Zealand Citrus Marketing Authority is empowered to control the assembly and distribution of New Zealand lemons which now includes the variety known as the meyer lemon, which was hitherto exempt from regulation. At the present time the entire output of packed lemons, which now come under the jurisdiction of the Authority, are sold at agreed prices to Fruit Distributors, Ltd. After discussions with the predecessors of the Citrus Marketing Authority it was agreed that this company would purchase the entire output of packed lemons. This arrangement was confirmed by the New Zealand Citrus Marketing Authority. The Authority will take over the processing and packing facilities at Kerikeri, Auckland, and Taunanga, and most of the staff previously associated with this work.

Honey.—The New Zealand Honey Marketing Authority was established under the Primary Products Marketing Act 1953. The previous Honey Marketing Advisory Committee was continued in office as the Authority until a new election could be held, at which both honey producers who supplied the blending plant at Auckland and those who sold honey on their own account could be represented. At the time of writing the election has just concluded and the members have not yet taken office.

Processing and Storage Facilities.—The New Zealand Packing Corporation, Ltd., was formed in November 1953 for the express purpose of operating the trading and storage facilities of the Marketing Division at Auckland, Pukekohe, and Motueka as the Government's agent. The property and facilities, buildings, plant, and equipment remain with the Government, but are transferred for the purposes of practical administration to the custody of the company. The company is charged under an agreement between it and the Government to operate the facilities in a prudent and businesslike manner. All profits are paid into the Consolidated Fund, after making due allowance for income tax and such other charges as a commercial organization would be required to bear.

The Government is responsible for the provision of such plant as may from time to time be required to keep the facilities up to date and in an effective working order. The Company will operate the factories for a period of five years. At the end of this period the last four years of operation will be taken into account to decide the purchase price at which a future public company will purchase the entire assets of the undertaking from the Government. The agreement provides that the price to be paid shall be based upon the earnings capacity of the undertaking, taken over the average of the preceding four years.

PRICE STATISTICS.—Actual prices of many goods and services at various levels are collected periodically by the Census and Statistics Department. The fields covered are retail prices, wholesale prices, export prices, import prices, and share prices. In the case of retail, wholesale, and share prices, direct inquiry is made (generally from sellers), and import prices being mainly derived from trade statistics, while, in addition, average prices of many materials and products of manufacture are available from the Statistics of Industrial Production. Some retail prices are given in the following table, and a wider selection of both retail and wholesale prices is published in the annual Report on Prices, Wages, and Labour Statistics; the chief use made of the prices collected, however, is in the compilation of price index numbers. These are, fundamentally, weighted averages of price ratios, the weighting being so arranged that the index numbers give a general indication of price movements in the field covered. The usual technique employs fixed weights with, however, provision for revision of the weighting pattern at suitable intervals.

Retail Prices.—Wellington retail prices at 15 February 1954 of a number of the commodities which enter into the Consumers' Price Index are shown hereunder.

Item	Unit	Price	
		s.	d.
Milk, fresh, delivered	Quart	0	9
Bread	2 lb. loaf	0	7.50
Sugar	6 lb. 4	6	
Butter	lb. 2	0	
Eggs	Dozen	5	3.60
Flour	25 lb. bag	6	7.30
Oatmeal	5 lb. bag	4	4
Tea	lb. packet	6	0.20
Cocoa	½ lb. packet	1	10.70
Coffee, ground	1 lb. jar	9	9.80
Jam, plum	28 oz. tin	3	0.50
Salt	5 lb. bag	1	11.80
Bacon, side	lb.	3	8.10
Cheese, mild	lb.	1	10.60
Sultanas	lb.	1	5.70
Prunes	2	9.50	
Peaches, canned	30 oz. tin	3	9.40
Herrings, canned	14 oz. tin	1	11.30
Peas, dried	lb.	0	8.13
Onions	lb.	0	8.50
Potatoes—			
Main crop	lb.		*
New	lb.	0	4.72
Apples	lb.	1	0.17
Oranges	lb.	1	1
Cabbages	lb.	0	6.50
Carrots	lb.	0	11
Beef—	lb.		
Sirloin	lb.	2	6.33
Prime ribs	lb.	2	2.67
Rump steak	lb.	2	11.33

* Main crop is not available in February.

Item	Unit	Price
Mutton—	lb.	
Leg	lb.	2 3.67
Fore quarters	lb.	1 6.33
Chops	lb.	2 3
Pork—	lb.	
Leg	lb.	2 10.67
Chops	lb.	3 0
Sausages, beef	lb.	1 3.67
Coal, domestic	¼ ton	39 10
Coke	Cwt.	10 2.58
Firewood (pine)	Bag	6 9
Electric current (lighting, heating, and cooking)	First 120 kWh	8 11
Electric current (water heating)	First 250 kWh	12 0
Gas (cooking)	1,000 c. ft.	10 0
Men's—	s., d.	
Suit—		
New Zealand material	Each	337 3
Imported material	Each	332 1
Overcoat—		
Tweed	Each	226 2
Oilskin		172 4
Trousers—		
Working	Pair	24 3
Sports	Pair	88 8
Shirt—		
Nightg.	Each	33 7
Working	Each	17 3
Singlet—		
All wool	Each	26 4
Cotton	Each	8 9
Slipover, all wool	Each	31 0
Pyjamas, flannelette	Pair	24 10
Socks, all wool	Pair	9 8¼
Hat, fur felt	Each	39 9
Bathing shorts	Each	30 2
Boys'—		
Suit, two-piece worsted	Each	102 3
Trousers, shorts, tweed	Pair	20 3
Overcoat, tweed	Each	106 9
Shirt, grey flannel		23 6
Three-quarter hose, school	Pair	8 3
School cap	Each	12 3
Women's—		
Costume, coat and skirt	Each	359 6
Skirt, tweed	Each	82 1
Overcoat, tweed	Each	298 5
Raincoat, cotton gaberdine	Each	93 9
Frock, cotton print	Each	29 11
Piece-goods—		
Tweed coating	Yard	31 0
Figure print	Yard	6 3
Art silk	Yard	7 10'
Wool, hand knitting	1 oz.	2 6
Stockings—		
Fully fashioned, silk	Pair	16 6
Nylon	Pair	13 6
Underslip, locknit	Each	22 11
Vest, silk and wool	Pair	11 10
Panties, interlock	Pair	6 9¼
Nightdress, locknit	Each	28 9
Brassière	Each	17 3
Corsets	Each	52 0
Gloves, cape skin	Pair	41 6
Umbrella	Each	49 8
Girls'—	s., d.	
Gym. frock, serge	Each	68 7
Pyjamas, winceyette	Pair	21 3
Sockettes, wool	Pair	4 0¼
Bloomers, interlock	Pair	5 1¼
Hat, school	Each	14 7
Infants'—		
Coat	Each	116 6
Clydella, plain	Yard	7 11
Nursery squares	Doz.	42 1
Baby wool	1 oz.	3 1
Drapery—		
Blankets, single	Pair	143 10
Sheets, single	Pair	44 7
Towel, turkish	Each	7 10¼

* Main crop is not available in February.

Item	Unit	Price
Tea towelling	Each	3 8¼
Soap—		
Laundry	2.8 lb. bar	3 1½
Powder	1½ lb. packet	2 2
Starch, loose	lb.	1 8½
Kerosene	26 oz. bottle	1 6
Metal polish	Tin	1 9
Boot polish	Medium tin	0 10½
Toilet paper	Roll	0 9½
Men's—		
Boots, heavy	Pair	71 1
Shoes—		
Heavy	Pair	51 6
Light	Pair	85 2
Sandshoes	Pair	11 1
Slippers, leather	Pair	33 3
Shoe repairs	Pair	15 1
Boys'—		
Shoes, heavy	Pair	40 11
Sandals	Pair	24 0
Gum boots	Pair	25 11
Shoe repairs	Pair	11 3
Women's—		
Shoes—		
Heavy	Pair	51 10
Light	Pair	62 4
Sandshoes	Pair	9 9
Slippers, felt	Pair	16 8
Shoe repairs	Pair	10 7
Girls'—		
Shoes—		
School	Pair	33 8
Light	Pair	34 10
Shoe repairs	Pair	6 6
Infants'—		
Shoes, glacié kid	Pair	19 3
Slippers, felt	Pair	9 8¼
Bedstead and rails, 4 ft. 6 in.	Each	181 2
Tallboy, four-drawer	Each	271 6
Mattress—		
4 ft. 6 in. wire	Each	112 1
4 ft. 6 in. kapok	Each	308 0
Pillow, 2 lb. kapok	Each	18 0
Child's cot	Each	139 8
Dining—		
Table, drawleaf	Each	312 6
Chair	Each	98 1
Sideboard	Each	562 9
Kitchen—		
Table	Each	78 4
Chair	Each	25 1
Suite, upholstered		1,439 0
Linoleum, inlaid	Yard	28 6
Congoleum	Yard	10 8
Carpet, Wilton 27 in.	Yard	47 9
Fellex, plain 5 ft.	Yard	37 8
	s., d.	
Hammer, carpenters'	Each	25 6
Spade, garden	Each	32 5
Fork, garden	Each	26 3
axe, 4 lb.	Each	36 6
Broom, hair and fibre	Each	16 5
Map, white cotton	Each	8 2
Scrubbing brush	Each	2 11
Bucket, galvanized, 12 in.	Each	9 10½
Saucepan, aluminium, 6 pint	Each	22 0
Frypan, aluminium, 10 in.	Each	13 6
Teapot, aluminium, six-cup	Each	21 0
Jug, quart, plain	Each	9 7½
Cup and saucer, tea size	½ doz.	22 3
Plate, 10 in.	Each	23 3
Tumblers, glass, 8 oz.	Each	5 7½
Knives, table, stainless	Each	54 0
Forks, table, E.P.N.S. A1	Each	41 9
Electric-light bulb, 60 watt	Each	1 10
Sewing machine	Each	755 0
Washing machine	Each	1,230 0
Vacuum cleaner	Each	435 0
Clothes wringer	Each	168 0

* Main crop is not available in February.

Item	Unit	Price
Radio receiving set	Each	370 0
Electric radiator	Each	72 3
Electric—		
Jug	Each	55 0
Toaster	Each	59 9
Iron	Each	86 6
Lawnmower	Each	138 3
Perambulator	Each	277 6
Cycle—		
Tire	Each	19 10
Tube	Each	8 9
Dry cleaning—		
Men's suit		8 6
Men's trousers		4 6
Women's costume		8 0
Laundering: Men's shirt		1 3
Dental—		
Extraction		12 6
Filling		12 6
Dentures		470 0
Optician		85 0
Library subscription		0 8
Hair cut—		
Men		2 3
Women		3 0
Hair set		6 6
Permanent wave		21 0
Cinema admission		3 4
Football admission		1 6
Medical (excess over social security)—		
Consultation fee		3 0
Specialist fee		13 6
X-ray		21 0
Maternity home fee (fourteen days)		
		253 0
Face powder	Box	3 3
Vanishing cream	Jar	3 6
Lipstick	Each	4 11
Powder puff		1 2
Baby talcum powder	Tin	2 0
Bobby pins	Card of 12	0 3½
Tooth paste	Large tube	2 11
Toilet soap	Medium cake	0 8
Shaving cream	Jar	2 6
Razor blades	Packet of 10	3 4
Tobacco	2 oz.	3 5
Cigarettes	Packet of 10	1 0

* Main crop is not available in February.

International Comparisons.—The two tables next following provide comparisons of retail and wholesale prices respectively between New Zealand and certain other countries. All the prices, which relate uniformly to the month of December 1953, have been converted into New Zealand currency. In the first table prices shown for Great Britain are maximum prices, while those for the United States of America are exclusive of sales tax.

COMPARISON OF RETAIL PRICES OF BASIC FOODSTUFFS

Item	Unit	New Zealand (Wellington)	Australia (Sydney)	South Africa (Cape Town)	Great Britain	Canada (Dominion Average)	United States of America (Average Fifty-six Large Cities)
		s.	d.	s.	d.	s.	d.
Bread	2 lb.	0	7½	0	10½	0	7½
Flour	25 lb.	6	7¼	9	10¼	9	14
Tea	lb.	6	0¼	3	8¼	6	4¼
Coffee	lb.	9	9¼		5	7	7½
Sugar	lb.	0	9	0	7¼	0	5
Milk (fresh)	Quart	0	8	1	4¼	1	1
Butter	lb.	2	0	3	3½	3	4
Cheese	lb.	1	10½	2	2¼	2	9
Bacon	lb.	3	6¼	4	10	3	4½

* 1½ lb.

† Not available.

‡ Smoked, thick, streaky.

§ December quarter, 1953.

¶ Wing rib.

‡ Loin.

Source:

Australia: Commonwealth Statistician.

South Africa: Bureau of Census and Statistics.

Great Britain: Ministry of Labour.

Canada: *The Labour Gazette*.

U.S.A.: *Monthly Labor Review*.

Item	Unit	New Zealand (Wellington)	Australia (Sydney)	South Africa (Cape Town)	Great Britain	Canada (Dominion Average)	United States of America (Average Fifty-six Large Cities)
Prunes	lb.	2	9½		1	2	0¼
Canned peaches	30 oz. tin	3	9¼	2	7		1
Beef—rib roast	lb.	2	2¼	1	8½	1	2 3 2½
Mutton—leg	lb.	2	3½	1	5½	2	6 2 10
Pork—leg chops	lb.	2	10¼	3	9¼	2	4 2 10
	lb.	3	0	3	10½	2	6

* 1½ lb.

† Not available.

‡ Smoked, thick, streaky.

§ December quarter, 1953.

¶ Wing rib.

‡ Loin.

Source:

Australia: Commonwealth Statistician.

South Africa: Bureau of Census and Statistics.

Great Britain: Ministry of Labour.

Canada: *The Labour Gazette*.

U.S.A.: *Monthly Labor Review*.

COMPARISON OF WHOLESALE PRICES OF CERTAIN COMMODITIES

Item	Unit	New Zealand		South Africa		Great Britain		Canada		United States of America	
		£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
Wheat	Bush.	0	12	2	0	15	4	0	16	8	0
Oats	Bush.	0	6	8				0	8	0	6
Flour	Ton	17	1	2	33	12	0	36	19	3	45
Sugar	Cwt.	3	14	6	2	3	4	3	0	9	2
Butter	lb.	0	1	10½	0	3	0½	0	2	10¼	0
Cheese	lb.	0	1	7¼	0	2	5	0	1	10½	
Motor spirits	Gal.	0	2	10	0	3	0	0	3	10½	0
Copper (electrolytic)	Cwt.	24	5	1	25	4	11	1	9	0	10
Lead	Cwt.	6	18	2	10	4	9	4	9	11	4

* Not available.

† Sheet.

Source:

South Africa: *Monthly Bulletin of Statistics*.

Great Britain: *The Economist—Intelligence Unit*.

Canada: *Prices and Price Indexes—Dominion Bureau of Statistics*.

U.S.A.: *Survey of Current Business*.

RETAIL PRICES INDEX NUMBERS.—A historical survey of retail prices in New Zealand will be found on pages 1007-1016 of the 1947-49 Year-Book, including an account of the various series of official index numbers of retail prices in New Zealand which have been current in the past, while pages 998-1003 of the same volume provide a description of the present Consumers' Price Index initiated in 1949. The last ten years of the base 1926-30 series—the immediate forerunner of the Consumers' Price Index—are shown in the table following, together with a final compilation of the old index for the base period of the new index, which enables the two series to be linked together.

INDEX NUMBERS OF RETAIL PRICES OF THE VARIOUS GROUPS OF COMMODITIES, SINGLY AND IN COMBINATION, 1939 TO 1949

Base: Weighted average of prices in 1926-30 in twenty-five centres in case of Groups I to IV, and average of prices in 1926-30 in four chief centres in case of Groups V, VI, and VII (= 1000)

Year	Food				Rent (IV)	Fuel and Light (V)	Clothing, Drapery, and Footwear (VI)	Miscellaneous (VII)	All Groups Combined (I-VII)
	Groceries (I)	Dairy (II)	Meat (III)	All Food (I-III)					
1939	1067	999	1077	1052	887	991	960	1086	990
1940	1039	1010	1153	1076	916	1005	1061	1170	1035
1941	1156	1010	1131	1104	945	1012	1159	1211	1073
1942	1236	1023	1115	1127	963	1021	1243	1289	1109
1943	1211	1029	1150	1134	973	1033	1347	1337	1134
1944	1241	1030	1168	1152	982	1038	1413	1359	1155
1945	1231	1032	1173	1151	987	1044	1442	1442	1170
1946	1235	1033	1174	1153	999	1057	1470	1450	1180
1947	1333	1071	1249	1224	1010	1094	1492	1478	1217
1948	1495	1135	1471	1382	1024	1191	1637	1557	1314
1949 (1st quarter)	1480	1125	1506	1389	1031	1232	1659	1544	1324

By combining the successive series and converting the whole to the base: first quarter of 1949 (= 1000)—the base period of the Consumers' Price Index—the following "long-term linked series" emerges.

RETAIL PRICES INDEX NUMBERS (ALL GROUPS)*

(Equated to Base: First Quarter, 1949 (= 1000))

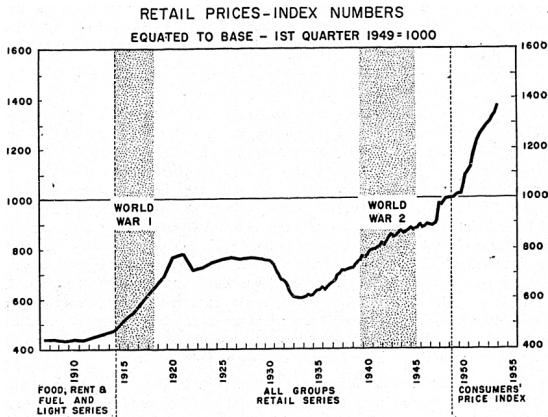
Year	Index No.
1907	440
1908	442
1909	436
1910	441
1911	438
1912	451

* Food, housing, and fuel and lighting in the years 1907-1913.

Year	Index No.
1913	461
1914	474
1915	511
1916	547
1917	594
1918	642
1919	689
1920	770
1921	781
1922	719
1923	724
1924	743
1925	758
1926	763
1927	756
1928	760
1929	758
1930	741
1931	684
1932	633
1933	600
1934	610
1935	632
1936	653
1937	697
1938	718
1939	748
1940	782
1941	810
1942	838
1943	856
1944	872
1945	884
1946	891
1947	919
1948	992
1949	1009
1950	1066
1951	1183
1952	1275
1953	1333

* Food, housing, and fuel and lighting in the years 1907-1913.

The following diagram is of interest in that it shows the movement in retail prices index numbers over the period 1907-53, the data being drawn from the figures given in the preceding table (long-term linked series) and those given on page 881.



Consumers Price Index.—The necessity for periodical revision of the pattern of index numbers of retail prices—indeed, of any index series—is obvious, if touch with reality is to be maintained. Spending patterns are constantly changing by reason of new kinds of commodities and services coming into vogue and older habits being discarded; also the proportions of total expenditure represented by the component groups and items vary continuously. Nevertheless, between revisions, in order that the index may reflect price changes only and not changes in volume of consumption, it is essential (assuming the use of the orthodox formula) that fixed weights should be maintained. Apart from the Wartime Price Index, which was specially adapted to emergency conditions, there was no general revision of weights from 1930 until 1948, when the 1926-30 pattern of consumption was replaced by the 1946 pattern in the moulding of the Consumers' Price Index. The following are the more important recommendations of the Index Committee now embodied in this index:—

- A new retail prices index based on the first quarter of 1949 should be initiated.
- The regimen of the index should cover "the whole range of commodities and services used in the average household—with representation, as far as possible, of the amenities of modern living." Durable consumer goods, seasonal fruits and vegetables (with normal seasonal price fluctuations "smoothed" by appropriate techniques), and services should be represented in the index.
- In addition to rentals of unfurnished houses (see special note on page 880), rentals of unfurnished flats and the costs of owner-occupied houses should be represented in the housing group of the index:

d. The weighting pattern should represent post-war habits of consumption:

- The index should cover prices in twenty-one towns spread over the whole country and adequately representing all urban localities. The New Zealand index will represent an average of indices for these towns weighted according to population:
- Monthly index numbers should be compiled for the food and fuel and lighting groups, and quarterly index numbers for all groups combined.

The complete regimen—i.e., the list of constituent items with comparative weights assigned to each—is given in a Special Supplement to the October-November 1949 issue of the *Monthly Abstract of Statistics*, entitled "Retail Prices in New Zealand, with Special Reference to the Consumers' Price Index." There are three hundred items, a considerable increase on the previous list. These new items include certain conventional necessities such as chocolate, ice cream, cosmetics, and replacements of radio receiving sets, vacuum cleaners, and washing machines. Other items introduced into the index for the first time were fresh fruits and vegetables and housing costs of owner-occupiers, for the inclusion of which entirely new techniques had to be devised; while many other commodities and services which had been previously excluded (on the general assumption that their average price movements were in approximate accord with those of the body of included items) were now considered to be worthy of a place in the regimen. This assumption, though discarded in the case of these items, is still retained in respect of a large number of less important commodities (for clearly the total number of items of household expenditure greatly exceeds three hundred); but here two points of some significance require to be noted:

- The three hundred items are those "priced" from time to time. Items or groups of items which have not been selected for pricing but which it is desired to represent in the index have their weights either assigned to individual "priced" items or spread over a group of such items.
- There are still residual groups of items which are not represented in the index—i.e., no assumption is made as to their price movements corresponding with recorded price movements. (There may, in fact, be a correspondence, but then the index is actually more comprehensive than it was designed to be.) Under this heading the following are comprised:
 - Luxury spending (especially on alcoholic liquors and private motoring, but also on such items as hotel accommodation, holiday travel (exclusive of rail fares), sports expenses, domestic help, and private telephone rentals). This expenditure may be regarded as a disposal of a surplus available after legitimate cost-of-living expenses have been met.
 - Taxation, as being not a true expense but rather a reduction of income (see also (d)).
 - Investments (savings if capitalized, life insurance).
 - Expenditure not related to value received and therefore incapable of expression as a "price," which is the cost of a specified satisfaction (gifts, charity, gaming expenses).
 - Expenses so irregular in occurrence and amount that their inclusion is not feasible (fire losses, legal expenses, cost of removal to another locality).

An estimate of the annual value, at prices ruling in the first quarter of 1949, of personal consumption represented in the index gave a figure of £247 million. This may be compared with the estimate of £346 million for total personal consumption in 1948-49 at market prices shown in the 1953 Official Estimates of National Income and Sector Accounts. The inference would be that 71 per cent of total personal consumption is represented in the index, but the two estimates neither have strictly a common basis nor cover exactly the same period of time. It may nevertheless be assumed that approximately 75 per cent of total personal expenditure is represented in the Consumers' Price Index.

Seeing that the weights are based on physical national consumptions (or at least quantities available for consumption) in 1946, the index cannot be related to any specific type of household; it has in view simply an average family comprising 3.6 persons (men, 1.32; women, 1.32; boys, 0.41; girls, 0.40; and infants, 0.15; the infants being under two years and the boys and girls other children under sixteen). No application of the index numbers to households deviating from this mean will be valid unless due allowance is made for the effect of such deviations, regard being always had to the published regimen which defines the exact standard and pattern of living, the varying cost of maintaining which the index is designed to measure.

The following table shows the group weighting on a percentage basis.

CONSUMERS PRICE INDEX GROUP WEIGHTS

Food— Group	Percentage of Total Expenditure in Base Period
Meat and fish	8.18
Fruits, vegetables, and eggs	7.66
Seasonal	4.90
Non-seasonal	2.76
Other foods	18.38
All food	34.22
Housing—	
Rent	6.66
Other housing	10.09
All housing	16.75
Fuel and lighting	3.86
Clothing and footwear—	
Clothing	17.25
Footwear	3.06
Clothing and footwear	20.31
Miscellaneous—	
Household durable goods	5.44
Other commodities	10.90
Services	8.52
Total miscellaneous	24.86
All groups	100.00

* See page 884 for current percentages.

The foregoing remarks are relative to the establishment of a weighting pattern, a necessary labour in the inauguration of the index. For the regular compilation of index numbers the further task of periodical collection of prices must also be undertaken. For the first time in this country a small field staff was appointed in 1948 to the Census and Statistics Department for price collecting duties. With the exception of house and flat rents, some "other housing" (i.e., owner-occupiers) costs, and a few miscellaneous items, particularly fares, all prices used in the Consumers' Price Index are now collected personally by pricing officers. Particular stress is laid on the maintenance of a uniform standard of quality in the commodities priced, unavoidable changes in the specifications

being compensated for by suitable price adjustments if necessary (see special note immediately following). The same retail establishments, as far as possible, are visited at every collection. Following is a statement of the periodicity and geographical coverage of price collection in respect of each group of the index.

Group	Periodicity of Collection	Date of Collection	Towns Covered
Food (excluding seasonal fruits and vegetables)	Monthly	15th day of month	Twenty-one towns.
Seasonal fruits and vegetables	Weekly	Every Friday	Ten representative towns.
Housing—			
Rents: houses and flats	Six monthly	February and August	Twenty-one towns.
Rates	Yearly	February	Twenty-one towns.
Repairs and maintenance	Yearly	February	Four chief centres.
Fuel and lighting	Monthly	15th day of month	Twenty-one towns.
Clothing and footwear	Quarterly	February, May, August, November	Ten representative towns.
Miscellaneous—			
Hardware	Quarterly	Ditto	Ten representative towns.
Furniture	Quarterly	Ditto	Ten representative towns.
Household appliances	Quarterly	Ditto	Four chief centres.
Cleaning supplies	Quarterly	Ditto	Ten representative towns.
Personal requisites	Quarterly	Ditto	Four chief centres.
Educational requisites	Quarterly	Ditto	Four chief centres.
Services—			
Postage, etc.	Quarterly	Ditto	Four chief centres.
Entertainment	Quarterly	Ditto	Four chief centres.

Group	Periodicity of Collection	Date of Collection	Towns Covered
Personal services	Quarterly	Ditto	Four chief centres.
Health services	Quarterly	Ditto	Four chief centres.
Transport	Quarterly	Ditto	Four chief centres.
Patent medicines	Quarterly	Ditto	Four chief centres.
Union dues	Yearly	February	Four chief centres.

Where "four chief centres" are mentioned the reference is to Auckland, Wellington, Christchurch, and Dunedin. The "ten representative towns" comprise also Hamilton, Napier, New Plymouth, Palmerston North, Nelson, and Invercargill; while the "twenty-one towns" are made up by the inclusion of Whangarei, Tauranga, Rotorua, Gisborne, Wanganui, Masterton, Blenheim, Greymouth, Ashburton, Timaru, and Oamaru.

In the combination of the individual towns into groups or into a single group, population weights are employed which give representation not only to the city or borough itself, but to neighbouring boroughs and town districts also. Thus there are three series of population weights, which also are subject to revision at any general revision of the commodity weights. Each of the three series has the same total, representing approximately 60 per cent of the total population of New Zealand. It will be apparent that the index as a whole has predominant reference to urban dwellers.

Further details as to the construction of the index will be found in the booklet "Retail Prices in New Zealand, with Special Reference to the Consumers' Price Index," mentioned earlier. Two special notes, however, dealing with particular aspects of the Consumers' Price Index, are given hereunder.

Treatment of Quality Changes.—Amongst the recommendations of the Index Committee—which were subsequently adopted by the Government as the framework of the Consumers' Price Index—are certain rules or principles regarding the maintenance of uniform quality in the goods priced from time to time. The most important provisions are quoted herewith.

"It is of course essential that where possible the prices reported should relate to identical qualities of goods at each period of reporting. For this reason the Committee stresses the importance of careful specification of each item to be priced. . . . Even with such precautions, difficulties in ensuring quotations for comparable qualities at each price collection are not easily overcome; and supervision of this aspect of the price-collecting programme will form an important part of the work of the price collectors. . . . While it is difficult to lay down any hard-and-fast rules regarding the reflection of changes in quality in a retail price index, the Committee considers that changes of importance should be taken into account, since a marked depreciation or appreciation in the quality of an article priced is equivalent to a price change and should be reflected in the index."

In conformity with the principles set out above, fairly exact specifications were established for each article and service of the Consumers' Price Index, in many cases in consultation with representatives of the various trades. This was a new departure, as indeed was the appointment of a staff of field officers, without whose services quality changes in goods priced could never have been taken into account.

These field officers are charged with the duty of watching the quality of the goods priced for index purposes and, in particular, where any change is observed, of assessing the difference in quality, in order to enable a compensating amendment to be made to the current price before it is incorporated in the index. In the case of standard brands which remain continuously on the market, it is in general safe to conclude that the quality remains constant, so that in practice difficulties arise only when a brand used in the index is discontinued. However the principle would be exactly the same if any index article were found to have either deteriorated or improved in quality, though continuing to be sold under the same brand. In times of scarcity, deterioration is liable to occur, but the Department is not aware of any such change having taken place during the currency of the Consumers' Price Index. Nevertheless the techniques described above are available, with adaptations if necessary, to meet any contingency which may arise.

Even if a prescribed brand has disappeared entirely from the market it is not infrequently found that an equivalent substitute is still available. Such cases present no difficulty. Where however the substitution involves a perceptible change of quality, special care must be taken to include in the index only genuine price movements.

Accordingly, at the initiation of the price-collecting programme, instructions were issued to field officers stating what was to be done if any index item as specified was no longer obtainable. In brief the field officer was required to report—

1. Whether the discontinuance was likely to be permanent or only temporary;
2. If the latter, whether a substitute was available and, if so, what price movement had occurred in the substitute since the previous inquiry;
3. If the former (in which case it could be assumed that some substitute would be on the market), what substitute should be taken, and what were the relative qualities of the original and the substitute. The comparison of qualities ultimately rests on the trained judgment of the field officer, but the opinion of the salesman or buyer who is supplying the information is taken into account.

The field officers' reports are considered by the responsible clerical officers, and the prices to be used in the index determined. In general the adjustments are made according to the following principles: In the case of temporary discontinuance, the recorded price movement in the substitute is linked to the last determined price of the original, and this procedure is continued until the original reappears. If the disappearance is considered permanent, the price of the substitute is increased or decreased in the inverse ratio of the two quantities—in the case of durable goods this is based on the estimated wearing lives of the respective articles. In practice however if the adjustment thus indicated is too small to affect the final figures significantly, the substitute article may be accepted as serving the same general purpose as the original.

It may be well to emphasize that it is the policy of the Department to treat enforced substitutions likely to obtain for an indefinite period (through an index specification becoming no longer available) in the manner above indicated for permanent, not temporary, disappearance. This means that the view is rejected that movements in the price of the substitute should be accepted as representing movements in the price of the article which is no longer procurable (as if it were procurable), in favour of the argument that the fact of the article being no longer procurable should be admitted, the index consequently showing any disadvantage or advantage accruing to the consumer by reason of the substitution itself, as well as reflecting any price changes in the substitute subsequent to the substitution.

With a view to anticipating the difficulties which arise when an index specification becomes unprocurable, attempts are made wherever possible to remove from the index any item, the sales of which are observed to be materially declining, in favour of some other item which is in both good demand and good supply and which is acceptable as a substitute.

In the foregoing remarks no reference has been made to changes in unit of sale—e.g., in the weight of a chocolate pack, the width of dress material sold by the yard, or the number of envelopes in a packet. Though not strictly quality changes, these require the same vigilance on the part of field officers for their detection, but once detected present no further difficulty, as it is in every case the price for a specified unit which enters into the index.

Index Sample of Rents.—Nine categories of house and flat rents enter into the rent sub-group of the Consumers' Price Index—viz. (1) privately owned houses of four rooms, (2) privately owned houses of five rooms, (3) privately owned houses of six rooms, (4) State houses of four rooms, (5) State houses of five rooms, (6) State houses of six rooms, (7) flats of two rooms, (8) flats of three rooms, and (9) flats of four rooms. Rents are collected twice every year—in February and August.

The "State" houses include only houses erected under the State housing scheme. Other houses acquired or administered by the State Advances Corporation or the Public Trust Office are treated as privately owned. No distinction between State and private ownership is made in the case of flats.

The Government Departments named supply a complete coverage of all rents which they collect. In the case of privately owned houses and flats a sample only is used, but this is not a planned sample; much less does it embrace the same dwellings at every collection. It merely includes all rented houses the current rents of which are known. The Government Statistician is empowered to demand information as to rents paid or payable from all collectors of rents. In practice this applies chiefly to house and land agents, but also to solicitors, accountants, etc., and to private landlords where known. It is one of the duties of the Department's field officers to make inquiries from time to time in the various towns covered by the index with a view to securing fresh sources of information as to house and flat rentals. This is necessary in order to compensate for houses in the sample which are from time to time demolished, converted to other uses, or acquired for owner occupation.

Such a method does bring into the sample new dwellings erected for letting, though not in any specific proportions. This very considerable advantage over the fixed-sample method is judged to outweigh the disadvantage inherent in a changing sample, of possible additional fluctuations which are not truly significant. But overall weight should not be attached to short-term movements in the rent index, particularly in the figures for individual towns.

The size of the sample is of some consequence. In August 1953 it covered 29,205 State houses, 12,047 private houses, and 5,947 flats, a total of 47,299 rented dwellings. (This total includes some dwellings which are either too large or too small to be used in the index.) The number of private rented dwellings recorded in the 1953 census was 148,679, of which 29,057 were flats. It is estimated that 65 per cent of the total rented dwellings are located in towns covered by the index. Ignoring any increase in the number of rented dwellings since the census, the sample appears to cover approximately 47,300 out of 97,000 rented dwellings in the twenty-one towns. An estimated analysis of these totals, showing State houses separately, is given below.

Type	Sample Collected	Sample Used in Index	Census Totals	Percentage of Census Totals Used in Index
State houses	29,300	25,200	29,300	86
Flats and other houses	18,000	15,400	67,700	23
All houses and flats	47,300	40,600	97,000	42

Making allowance for the complete coverage of State flats it still appears that approximately 20 per cent of privately owned rented dwellings are included in the index.

The rents collected are subject to certain "weighting" operations designed to ensure that each category of dwellings receives its correct proportional representation in the index despite any disproportion which may exist in the sample. Thus although the August 1953 sample included 29,300 State houses, 12,000 privately owned houses, and 6,000 flats, the proportions after weighting became approximately: State houses, 23 per cent of all dwellings; privately owned houses, 54 per cent; and flats, 23 per cent. These fixed percentages are averages for all towns; in fact, each town has its own set percentages for combining State houses with privately owned houses, and for combining houses with flats respectively, though all towns use the same percentages wherever categories of dwellings are to be combined which differ only in the number of rooms.

Consumers' Price Index Numbers.—The following table shows the index numbers calculated for the first five years of the currency of the Consumers' Price Index. The table headings are self-explanatory. The all-groups index numbers for the twenty-one towns combined shown in the first section of the table are linked with those for each earlier year in the table already given on page 875. These earlier indices having been converted to the base first quarter of 1949 (=1000), which is the base of the Consumers' Price Index.

CONSUMERS' PRICE INDEX.—QUARTERLY INDEX NUMBERS (ALL GROUPS), TWENTY-ONE TOWNS COMBINED

Base: Weighted average twenty-one towns, first quarter, 1949 (= 1000)

—	Food					Housing			Fuel and Lighting	Clothing and Footwear			Miscellaneous					All Groups
	Meat and Fish	Fruits, Vegetables, and Eggs	Other Foods	All Food	Rent	Other Housing	All Housing	Clothing		Footwear	Clothing and Footwear	Household Durable Goods	Other Commodities	Services	All Miscellaneous			
1949	1056	1008	1015	1023	1000	1000	1000	1017	1000	1011	1002	997	998	1004	1000	1009		
1950	1131	1067	1144	1123	1014	1032	1025	1135	1027	1148	1045	1013	1007	1045	1021	1066		
1951	1355	1265	1276	1292	1052	1072	1164	1235	1190	1269	1202	1153	1039	1117	1091	1183		
1952	1590	1470	1328	1423	1120	1165	1147	1271	1270	1369	1285	1163	1128	1178	1152	1275		
1953	1755	1588	1366	1509	1181	1243	1219	1366	1296	1424	1316	1165	1147	1224	1177	1333		

—	Food					Housing		Fuel and Lighting	Clothing and Footwear			Miscellaneous					All Groups
	Meat and Fish	Fruits, Vegetables, and Eggs	Other Foods	All Food	Rent	Other Housing	All Housing		Clothing	Footwear	Clothing and Footwear	Household Durable Goods	Other Commodities	Services	All Miscellaneous		
1949	1056	1008	1015	1023	1000	1000	1000	1017	1000	1011	1002	997	998	1004	1000	1009	
1950	1131	1067	1144	1123	1014	1032	1025	1135	1027	1148	1045	1013	1007	1045	1021	1066	
1951	1355	1265	1276	1292	1052	1072	1164	1235	1190	1269	1202	1153	1039	1117	1091	1183	
1952	1590	1470	1328	1423	1120	1165	1147	1271	1270	1369	1285	1163	1128	1178	1152	1275	
1953	1755	1588	1366	1509	1181	1243	1219	1366	1296	1424	1316	1165	1147	1224	1177	1333	

In the two following tables individual towns are distinguished for selected years and quarters.

CONSUMERS' PRICE INDEX.—ANNUAL INDEX NUMBERS FOR INDIVIDUAL TOWNS AND GROUPINGS Base: Weighted average twenty-one towns, first quarter, 1949 (= 1000)

—	Calendar Year 1952						Calendar Year 1953					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
Auckland	1411	1146	1263	1340	1139	1279	1506	1239	1342	1369	1168	1343
Wellington	1438	1192	1175	1272	1171	1286	1515	1251	1289	1296	1194	1338
Christchurch	1395	1181	1269	1222	1135	1255	1490	1243	1413	1249	1161	1315
Dunedin	1401	1149	1016	1313	1175	1270	1473	1216	1073	1358	1194	1322
Four chief centres	1414	1165	1211	1296	1151	1275	1502	1240	1308	1325	1177	1334
Hamilton	1482	1112	1280	1238	1143	1278	1567	1202	1332	1280	1168	1339
Napier	1421	1104	1470	1273	1158	1274	1485	1157	1534	1306	1179	1319
New Plymouth	1414	1115	1409	1254	1140	1263	1500	1186	1491	1296	1167	1323
Palmerston North	1470	1145	1332	1278	1168	1296	1546	1202	1435	1312	1192	1348
Nelson	1415	1158	1448	1270	1144	1276	1504	1231	1503	1282	1171	1330
Invercargill	1427	1109	1323	1269	1176	1275	1516	1168	1451	1301	1199	1333
Six provincial towns	1441	1121	1372	1264	1156	1278	1521	1187	1454	1298	1180	1333
Whangarei	1470	1111	1606	1307	1166	1307	1563	1189	1685	1367	1149	1367
Tauranga	1487	1149	1217	1284	1167	1284	1567	1214	1202	1336	1149	1336
Rotorua	1488	1094	1328	1279	1189	1279	1576	1189	1472	1346	1149	1346
Gisborne	1426	1060	1681	1273	1185	1273	1495	1123	1838	1327	1149	1327
Wanganui	1456	1068	1425	1282	1134	1282	1536	1134	1565	1338	1149	1338
Masterton	1458	1095	1447	1288	1147	1288	1547	1152	1589	1349	1149	1349
Blenheim	1397	1106	1551	1266	1187	1266	1487	1169	1621	1312	1149	1312
Grey mouth	1428	1089	1184	1250	1123	1250	1523	1137	1251	1304	1149	1304
Ashburton	1367	1075	1707	1244	1103	1244	1503	1149	1762	1317	1149	1317
Timaru	1374	1141	1240	1243	1171	1243	1471	1206	1373	1304	1149	1304
Oamaru	1455	1071	1472	1293	1102	1293	1502	1139	1575	1338	1149	1338
Eleven other towns	1438	1097	1410	1272	1152	1272	1525	1163	1514	1330	1149	1330

CONSUMERS' PRICE INDEX.—QUARTERLY INDEX NUMBERS FOR INDIVIDUAL TOWNS AND GROUPINGS

Base: Weighted average twenty-one towns, first quarter, 1949 (= 1000)

—	Quarter Ended 31 December 1952						Quarter Ended 31 March 1953					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
1949	1056	1000	1011	1002	997	1000	1056	1000	1011	1002	997	1000
1950	1131	1000	1011	1002	997	1000	1131	1000	1011	1002	997	1000
1951	1355	1000	1011	1002	997	1000	1355	1000	1011	1002	997	1000
1952	1590	1000	1011	1002	997	1000	1590	1000	1011	1002	997	1000
1953	1755	1000	1011	1002	997	1000	1755	1000	1011	1002	997	1000

—	Quarter Ended 31 December 1952						Quarter Ended 31 March 1953					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
Auckland	1455	1159	1280	1347	1149	1301	1463	1229	1285	1357	1167	1322
Wellington	1465	1199	1183	1266	1181	1299	1444	1245	1183	1281	1192	1305
Christchurch	1446	1189	1269	1231	1144	1278	1439	1234	1272	1232	1163	1288
Dunedin	1419	1155	1046	1328	1179	1282	1425	1209	1074	1341	1194	1301
Four chief centres	1452	1175	1224	1301	1160	1294	1449	1232	1230	1311	1176	1308
Hamilton	1523	1133	1280	1244	1152	1300	1520	1189	1282	1262	1164	1315
Napier	1471	1112	1474	1277	1165	1296	1413	1153	1469	1294	1179	1289
New Plymouth	1470	1120	1421	1268	1150	1289	1442	1179	1428	1277	1166	1295
Palmerston North	1494	1148	1349	1295	1174	1310	1486	1196	1353	1297	1190	1320
Nelson	1469	1163	1452	1273	1158	1300	1442	1224	1459	1272	1174	1305
Invercargill	1454	1112	1340	1283	1186	1291	1479	1160	1388	1278	1199	1312
Six provincial towns	1482	1129	1381	1274	1165	1298	1465	1180	1391	1282	1179	1306
Whangarei	1511	1120	1641			1327	1520	1186	1656			1348
Tauranga	1517	1155	1193			1298	1511	1198	1195			1309
Rotorua	1522	1095	1320			1294	1526	1168	1298			1314
Gisborne	1490	1070	1673			1299	1424	1114	1678			1295
Wanganui	1494	1071	1433			1301	1490	1130	1521			1317
Masterton	1497	1102	1462			1304	1483	1142	1452			1311
Blenheim	1453	1112	1577			1291	1423	1159	1580			1292
Greymouth	1478	1098	1191			1273	1462	1115	1197			1275
Ashburton	1417	1073	1715			1265	1440	1150	1725			1291
Timaru	1426	1141	1265			1266	1422	1197	1307			1280
Oamaru	1493	1076	1470			1311	1492	1136	1479			1327
Eleven other towns	1482	1101	1417			1292	1472	1153	1440			1304

* In calculating the all-groups index numbers for the eleven other towns, singly and in combination, the missing aggregates for the Clothing and Footwear and Miscellaneous groups were supplied from the four chief centres and six provincial towns.

CONSUMERS PRICE INDEX.—QUARTERLY INDEX NUMBERS FOR INDIVIDUAL TOWNS AND GROUPINGS Base: Weighted average twenty-one towns, first quarter, 1949 (= 1000)

—	Quarter Ended 30 June 1953						Quarter Ended 30 September 1953					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
Auckland	1488	1229	1323	1366	1168	1334	1505	1248	1367	1362	1169	1344
Wellington	1471	1245	1281	1299	1198	1323	1542	1256	1331	1303	1196	1352
Christchurch	1465	1234	1407	1249	1160	1304	1469	1253	1474	1255	1164	1314
Dunedin	1452	1209	1045	1364	1194	1313	1467	1222	1078	1356	1198	1321
Four chief centres	1475	1232	1294	1325	1178	1323	1504	1248	1343	1325	1179	1338
Hamilton	1549	1189	1329	1272	1167	1329	1584	1214	1386	1281	1171	1349
Napier	1453	1153	1525	1304	1179	1307	1524	1162	1572	1314	1182	1337
New Plymouth	1469	1179	1491	1297	1166	1311	1521	1194	1518	1294	1168	1332
Palmerston North	1512	1196	1419	1307	1193	1334	1558	1209	1487	1310	1195	1356
Nelson	1484	1224	1496	1281	1172	1322	1507	1238	1528	1279	1173	1333
Invercargill	1494	1160	1365	1290	1198	1318	1488	1176	1495	1302	1202	1327
Six provincial towns	1494	1180	1434	1294	1180	1320	1534	1195	1490	1299	1183	1340
Whangarei	1552	1186	1666			1362	1554	1192	1705			1364
Tauranga	1548	1198	1192			1325	1585	1229	1207			1346
Rotorua	1552	1168	1510			1334	1589	1211	1536			1357
Gisborne	1461	1114	1712			1307	1527	1133	1973			1345
Wanganui	1507	1130	1561			1327	1527	1137	1587			1338
Masterton	1512	1142	1570			1331	1571	1162	1666			1359
Blenheim	1459	1159	1612			1307	1486	1179	1678			1322
Greymouth	1503	1115	1261			1294	1508	1159	1261			1305
Ashburton	1472	1150	1748			1306	1482	1149	1762			1318
Timaru	1449	1197	1378			1295	1446	1215	1407			1300
Oamaru	1507	1136	1579			1341	1471	1141	1616			1330
Eleven other towns	1501	1153	1500			1319	1522	1173	1554			1333

—	Quarter Ended 31 December 1953						Quarter Ended 31 March 1954					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
Auckland	1569	1248	1391	1393	1168	1373	1542	1304	1449	1408	1192	1384
Wellington	1603	1256	1362	1301	1191	1372	1546	1337	1398	1324	1223	1380
Christchurch	1587	1253	1497	1261	1158	1355	1573	1309	1554	1279	1182	1371
Dunedin	1546	1222	1094	1372	1191	1351	1549	1288	1129	1397	1209	1374
Four chief centres	1579	1248	1367	1340	1175	1367	1550	1312	1417	1360	1201	1379
Hamilton	1616	1214	1363	1306	1172	1365	1569	1265	1402	1320	1192	1368
Napier	1550	1162	1569	1310	1176	1344	1484	1219	1651	1315	1209	1343
New Plymouth	1568	1194	1526	1315	1169	1353	1524	1252	1565	1319	1195	1357
Palmerston North	1629	1209	1482	1333	1189	1383	1587	1278	1547	1341	1224	1394
Nelson	1583	1238	1529	1296	1167	1361	1528	1297	1550	1311	1193	1363
Invercargill	1605	1176	1555	1335	1196	1375	1645	1227	1570	1367	1214	1409
Six provincial towns	1593	1195	1501	1318	1179	1364	1577	1253	1548	1330	1206	1372
Whangarei	1625	1192	1712			1395	1608	1252	1756			1410
Tauranga	1624	1229	1216			1365	1574	1289	1239			1367
Rotorua	1638	1211	1543			1379	1594	1258	1563			1381
Gisborne	1567	1133	1990			1361	1510	1180	2039			1357
Wanganui	1618	1137	1591			1372	1573	1187	1636			1377
Masterton	1624	1162	1670			1375	1565	1222	1653			1377
Blenheim	1578	1179	1615			1353	1535	1213	1663			1356
Greymouth	1617	1159	1288			1344	1577	1192	1342			1347
Ashburton	1619	1149	1815			1360	1589	1213	1843			1372

* In calculating the all-groups index numbers for the eleven other towns, singly and in combination, the missing aggregates for the Clothing and Footwear and Miscellaneous groups were supplied from the four chief centres and six provincial towns.

—	Quarter Ended 31 December 1953						Quarter Ended 31 March 1954					
	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*	Food	Housing	Fuel and Lighting	Clothing and Footwear	Miscellaneous	All Groups*
Timaru	1568	1215	1400			1342	1542	1265	1447			1353
Oamaru	1539	1141	1627			1355	1555	1209	1707			1385
Eleven other towns	1603	1173	1562			1363	1566	1224	1601			1370

* In calculating the all-groups index numbers for the eleven other towns, singly and in combination, the missing aggregates for the Clothing and Footwear and Miscellaneous groups were supplied from the four chief centres and six provincial towns.

In the table which follows, monthly figures where available are shown for all index towns combined.

CONSUMERS PRICE INDEX.—MONTHLY INDEX NUMBERS (FOOD AND FUEL AND LIGHTING), TWENTY-ONE TOWNS COMBINED

Base: Weighted average twenty-one towns, first quarter, 1949 (= 1000)

—	Meat and Fish	Fruits, Vegetables, and Eggs	Other Foods	All Foods	Fuel and Lighting
Calendar Year—					
1949	1056	1008	1015	1023	1017
1950	1131	1067	1144	1123	1135
1951	1355	1265	1276	1292	1235
1952	1590	1470	1328	1423	1271
1953	1755	1588	1366	1509	1366
Month—					
1953—January	1700	1430	1354	1454	1289
February	1702	1477	1354	1465	1292
March	1709	1388	1356	1447	1293
April	1712	1469	1354	1465	1316
May	1719	1562	1356	1489	1365
June	1730	1560	1359	1493	1372
July	1746	1461	1365	1478	1395
August	1762	1498	1368	1491	1406
September	1798	1795	1369	1567	1405
October	1805	2096	1369	1636	1407
November	1834	1654	1369	1544	1407
December	1847	1662	1419	1575	1451
1954—January	1850	1548	1449	1567	1465
February	1854	1430	1457	1546	1471
March	1856	1401	1470	1547	1471

As price movements in the various groups and sub-groups of the Consumers' Price Index have during the currency of the index shown considerable dispersion, the percentages of total expenditure given for the base period on page 877 do not apply to more recent periods. For the first quarter of 1954 the following was the position.

CONSUMERS PRICE INDEX.—EXPENDITURE BY GROUPS

Group	Percentage of Total Current Expenditure Covered by Index
Food—	(Quarter Ended 31 March 1954)
Meat and fish	11.01
Fruits, vegetables, and eggs	8.12
Seasonal	4.83
Non-seasonal	3.29
Other foods	19.48
All food	38.61
Housing—	
Rent	5.98
Other housing	9.69
All housing</	

Year	Index Number
1914	748
1915	805
1916	882
1917	1024
1918	1225
1919	1282
1920	1536
1921	1428
1922	1194
1923	1115
1924	1120
1925	1114
1926	1053
1927	1001
1928	994
1929	988
1930	963
1931	901
1932	878
1933	902
1934	907
1935	936
1936	945
1937	1022
1938	1036
1939	1071
1940	1195
1941	1311
1942	1416
1943	1513
1944	1558
1945	1584
1946	1589
1947	1649
1948	1837
1949	1825
1950	1987
1951	2315
1952	2572
1953	2546

The Wholesale Prices Index is purely a commodity index, no attempt having been made to cover the wholesale prices of services such as the supply of electric power, transportation, etc. The index relates only to commodities consumed in New Zealand, each item included in the make-up of the index being weighted by a factor representing production, plus imports, less exports (i.e., local consumption). The wholesale prices index numbers are compiled by the aggregate expenditure method, and where applicable sales tax is included in the prices used in the index.

The following table shows annual wholesale prices index numbers by commodity groups (i.e., by origin).

WHOLESALE PRICES.—INDEX NUMBERS BY GROUPS—Base: 1926-30 (= 1000)

Group	1914	1939	1949	1950	1951	1952	1953
1. Foodstuffs, etc., of vegetable origin—							
A. Agricultural produce	642	1328	1908	2204	2639	2947	3113
B. Fresh fruits and vegetables	764	1055	1629	1709	2326	2210	2334
C. Milled agricultural products	644	776	903	1228	1277	1085	1029
D. Other foods and groceries of vegetable origin	613	1189	2067	2178	2344	2491	2584
A-D. Four subgroups combined	634	1124	1782	1964	2186	2277	2355
2. Textile manufactures	535	815	2021	2133	2612	2997	2591
3. Wood and wood products	582	1184	1844	1959	2146	2393	2609
4. Animal products—							
A. Meats	941	1011	1618	1655	2057	2384	2694
B. Semi-manufactured animal products (not foods)	838	691	930	1790	2022	2362	2548
C. Leather	676	1129	1822	2191	2419	2554	2548
D. Other foods and groceries of animal origin	785	965	1245	1427	1525	1534	1542
A-D. Four subgroups combined	843	992	1459	1628	1876	2052	2197
5. Metals and their products	919	1277	2356	2484	2931	3372	3246
6. Non-metallic minerals and their products—							
A. Mineral oils	1164	1235	1659	1748	1980	1989	2075
B. Coal	539	1085	1427	1973	2354	2606	2735
C. Other non-metallic minerals and their products	600	1023	1595	1783	2093	2555	2499
A-C. Three subgroups combined	821	1140	1555	1845	2149	2329	2410
7. Chemicals and manures	954	861	1609	1580	1992	2447	2256
All groups combined	748	1071	1825	1987	2315	2572	2546

The respective group weights (i.e., percentages of the base aggregate expenditure) are as follows: 1. A. 3.61 per cent; 1. B. 1.43 per cent; 1. C. 4.06 per cent; 1. D. 11.70 per cent; 2. 16.43 per cent; 3. 6.18 per cent; 4. A. 7.98 per cent; 4. B. 0.72 per cent; 4. C. 1.99 per cent; 4. D. 7.48 per cent; 5. 18.18 per cent; 6. A. 6.79 per cent; 6. B. 6.29 per cent; 6. C. 2.50 per cent; and 7. 4.66 per cent.

In the next table index numbers are given by classes (i.e., by use). These index numbers should be taken for no more than they purport to represent—viz., the movement in wholesale prices of those commodities, covered by the wholesale prices inquiry, which belong to the respective classes. The figure for Class III, for instance, does not purport to show the movement in building costs, nor should that for imported items be confused with the index number of import prices. The table shows the separate index numbers for imported items and locally produced items included in the wholesale prices series.

Since 1939 the index for imported commodities had up to 1952 increased by 163 per cent, and that for locally produced commodities by 109 per cent. By 1953, however, these respective percentage increases over 1939 had become 150 and 121; this convergence is significant.

WHOLESALE PRICES.—INDEX NUMBERS BY CLASSES—Base: 1926-30 (= 1000)

Year	Consumers' Goods	Producers' Materials, etc.	Classes I and II Combined	Classes III and IV Combined	Locally Produced Commodities	Imported Commodities	All Classes Combined
1939							
1940							
1941							
1942							
1943							
1944							
1945							
1946							
1947							
1948							
1949							

Year	Class I: Foodstuffs	Class II: Non-foods	Class III: Materials for Building and Construction	Class IV: Materials for Other Industries	Classes I and II Combined	Classes III and IV Combined	Locally Produced Commodities	Imported Commodities	All Classes Combined
1914	766	605	792	791	699	791	716	772	748
1939	1088	1000	1206	1057	1051	1090	1053	1084	1071
1943	1350	1678	1793	1466	1483	1539	1205	1742	1513
1944	1381	1759	1832	1506	1534	1579	1233	1800	1558
1945	1401	1781	1923	1520	1554	1610	1257	1827	1584
1946	1422	1779	1908	1522	1566	1608	1278	1821	1589
1947	1557	1774	1823	1605	1645	1653	1368	1859	1649
1948	1651	1952	1968	1870	1773	1892	1501	2089	1837
1949	1612	1945	1992	1864	1746	1892	1532	2044	1825
1950	1744	2093	2158	2049	1884	2073	1744	2168	1987
1951	2022	2457	2448	2405	2197	2414	2030	2528	2315
1952	2210	2614	2807	2721	2373	2740	2200	2850	2572
1953	2373	2442	2788	2635	2401	2669	2328	2709	2546

Of the total base aggregate expenditure, Class I represents 27.1 per cent, Class II 19.2 per cent, Class III 11.9 per cent, and Class IV 41.8 per cent, while the imported items aggregate 57.7 per cent of the total.

EXPORT PRICES.—Quarterly and annual index numbers of export prices are compiled, based chiefly on the declared export values of the principal commodities of New Zealand produce exported. The prices are related to the base period 1909-13 (= 1000), but the weight allotted to each of the various commodities included is the average quantity of that commodity exported during the five preceding export seasons—i.e., years ended 30 June. This system of weighting permits of more reliable comparisons between neighbouring years than over long periods.

Most of the export commodities are homogeneous, but in some instances—e.g., wool—the average export value in any month may be affected by changes in the relative quantities of the various grades or classes exported. This difficulty was, from 1946, partly overcome by relating the average prices realized for greasy wool at New Zealand wool sales to the average prices in the corresponding season of a stable year. From 1949 a further refinement has been introduced by establishing a system of fixed-type weights for each sale (recurring annually in the same season of the year in each centre) and fixed sale weights for combining all the sales in one year. The wool-price index incorporated in the export-prices index is in fact derived from the general wool-price index, of which details will be found on page 443 of this volume, and more particularly in the Report on Prices, Wages, and Labour Statistics for the years 1951-52 and 1952-53.

Index numbers for the calendar years 1943-53 are shown in the next table, compiled for each group on the base 1909-13 (= 1000).

EXPORT PRICES.—INDEX NUMBERS—BASE: 1909-13 (= 1000)

Calendar Year	Group I: Dairy Produce	Group II: Meat	Group III: Wool	Group IV: Other Pastoral Produce	Groups I-IV: All Pastoral and Dairy Produce	Group V: Agricultural Produce	Group VI: Timber	Group VII: Minerals	Groups I-VII: All Groups Combined
1943	1431	1835	1677	1712	1627	1453	2783	2364	1650
1944	1566	1907	1720	1701	1711	1665	2763	2359	1733
1945	1799	2034	1720	1755	1846	1803	3379	2457	1865
1946	1869	2252	1897	2317	2024	1913	3647	2582	2040
1947	2189	2725	2460	3827	2539	2333	4171	2587	2555
1948	2405	2694	3134	4002	2834	2657	4767	2572	2825
1949	2273	2539	3328	3511	2754	2289	4888	2471	2740
1950	2442	2751	6918	4527	3887	2196	5165	2973	3843
1951	2639	3072	8399	6201	4537	2787	8854	3281	4499
1952	2866	3556	4718	3726	3571	4000	7494	3087	3580
1953	3020	3878	5680	3598	3938	3982	8881	3198	3941

The next table shows export prices index numbers for all pastoral and dairy produce groups and for all groups combined in respect of each year from 1914 to 1953.

Year	Index Numbers	
	All Pastoral and Dairy Produce	All Groups Combined
1914	1095	1089
1915	1251	1239
1916	1478	1460
1917	1663	1655
1918	1691	1684
1919	1787	1776
1920	1824	1806
1921	1725	1715
1922	1352	1363
1923	1619	1610
1924	1806	1788
1925	1914	1893
1926	1541	1540
1927	1529	1525
1928	1700	1683
1929	1634	1623
1930	1279	1283
1931	965	984
1932	870	892
1933	867	896
1934	1089	1109
1935	1072	1102
1936	1228	1250
1937	1423	1440
1938	1340	1367
1939	1290	1324
1940	1501	1524
1941	1527	1553
1942	1563	1586
1943	1627	1650
1944	1711	1733
1945	1846	1865
1946	2024	2040
1947	2559	2555
1948	2834	2825
1949	2754	2740

Year	Index Numbers	
	All Pastoral and Dairy Produce	All Groups Combined
1950	3887	3843
1951	4537	4499
1952	3571	3580
1953	3938	3941

During the post-war period the index rose rapidly until 1951, partly by reason of advances in prices under long-term contracts with the United Kingdom Government, but more particularly as a result of the brisk demand for New Zealand wool displayed since the resumption of auction sales in September 1946, and greatly heightened during the early part of 1951, when the whole index was dominated by spectacular advances in wool prices. In spite of continued increases in export prices of dairy produce and meat, a recession in the latter part of 1951 from the inflated wool values of the previous season, combined with some other less significant price decreases (mainly in skins), brought about a fall in the all-groups export prices index number for 1952 of over 20 per cent as compared with 1951. The 1952 figure still, however, substantially exceeded that for every year prior to 1950, while the 1953 index was the second highest on record. It should be noted that the general upward trend in export prices was masked in 1949 by the appreciation in August 1948 of the New Zealand pound to parity with sterling.

The fact that the calendar year does not coincide with the farm-production year is especially significant in New Zealand, since the great bulk of export goods are farm produce. For a number of purposes the next table, giving annual average export prices index numbers for years ended 30 June, will be more useful. As in the previous table, index numbers are based upon prices in New Zealand currency.

EXPORT PRICES—INDEX NUMBERS (JUNE YEARS)—BASE: 1909-13 (= 1000)

Year Ended 30 June	Group I: Dairy Produce	Group II: Meat	Group III: Wool	Group IV: Other Pastoral Produce	Groups I-IV: All Pastoral and Dairy Produce	Group V: Agricultural Produce	Group VI: Timber	Group VII: Minerals	Groups I-VII: All Groups Combined
1943	1415	1809	1580	1701	1589	1383	2762	2363	1613
1944	1437	1898	1720	1732	1658	1523	2755	2363	1681
1945	1741	1960	1720	1702	1797	1836	2812	2416	1817
1946	1802	2101	1720	1949	1881	1923	3357	2522	1903
1947	2067	2569	2165	3235	2339	1954	3927	2587	2336
1948	2393	2746	3012	3987	2811	2643	4560	2578	2803
1949	2264	2544	3056	3734	2706	2353	4620	2492	2696
1950	2365	2657	4449	3705	3109	2241	5128	2581	3087
1951	2563	2875	10211	5250	4839	2541	5325	3186	4782
1952	2754	3363	4845	4883	3601	3796	7599	3110	3606
1953	2967	3687	5428	3511	3800	3999	8372	3125	3805

IMPORT PRICES.—A series of import prices index numbers based on the year 1926 (= 100), and weighted in accordance with average quantities imported during the years 1926-30, was instituted in 1933. While the basic data were deficient in many respects, nevertheless the index served a very useful purpose. With the passage of time, however, certain inherent weaknesses in this series became apparent, while information previously lacking in some cases became available.

Accordingly, a revised series of index numbers was computed, based in the case of individual items on average quantities imported during the three years 1936-38. Group weights were instituted in the new series, to accord to the various groups their relative importance, and these were based on the average total value for the respective groups during the three years 1936-38. The difficulty, inherent in an index number of imports, of obtaining sufficient coverage to provide a reliable indication of changes in price for any one group, was overcome in the revised series by the utilization of figures of exports to New Zealand, obtained in detail from the published trade figures of certain overseas countries.

A new and much more detailed statistical classification of imports was adopted by the Customs Department from 1 January 1949. The index of import prices for 1950 has been constructed using the items of the new classification and based on a composite weighting pattern of the two years 1949 and 1950, utilizing group weights, and linked to the old index. The index for 1951 has similarly been based on the composite 1950-51 weighting pattern and linked on. The index for each subsequent year has been similarly calculated on the base of the previous year in each case, using a composite weighting pattern of the two years, the resultant index number being linked on to the old series.

In order to avoid any possible confusion between the import prices index number and the wholesale prices index number for imported commodities, it seems desirable to draw attention to the fact that the price quotations on which the Import Prices Index is based are declared values of commodities for import—i.e., current domestic prices in the exporting country plus 10 per cent to cover freight, etc., expressed in terms of New Zealand currency.

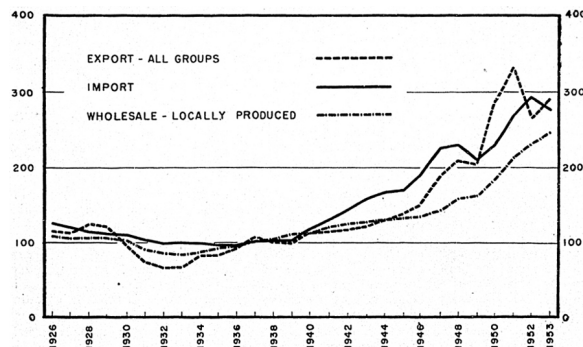
Owing to different proportional changes over the years between domestic commodity prices in exporting countries, the costs of these same commodities delivered f.o.b. for export, and marine insurance and freight rates, the Import Prices Index can only be regarded as the best available approximate indicator of changes in the cost of imports delivered c.i.f. New Zealand ports. For instance, the large increase in marine transport costs during the war years was not, to the extent that it exceeded the rise in commodity prices, reflected in the index. There is reason to believe that, for recent periods compared with pre-war, the rises in f.o.b. costs of commodities and in marine freight and insurance rates may have exceeded the rises in domestic prices in exporting countries recorded in the index.

The Import Prices Index covers some seven hundred items, as compared with approximately one hundred items included in the Wholesale Prices Index for imported commodities.

A comparative table of index numbers of the various related prices series from the year 1926 onward is as follows. All index numbers are quoted on a New Zealand currency basis, and on the base 1936-38 (=100).

Year	Export Prices			Wholesale Prices			Retail Prices (All Groups)
	Import Prices	Pastoral and Dairy Produce	All Groups	Locally Produced Commodities	Imported Commodities	All Groups	
1926	125	116	114	108	103	105	111
1927	119	115	113	104	97	100	110
1928	113	128	124	106	95	99	110
1929	111	123	120	106	94	99	110
1930	110	96	95	102	92	96	107
1931	102	73	73	90	90	90	99
1932	97	65	66	84	90	88	92
1933	99	65	66	83	95	90	87
1934	98	82	82	85	94	91	88
1933	96	81	82	92	94	94	92
1936	96	92	92	95	94	94	95
1937	102	107	107	102	102	102	101
1938	102	101	101	104	103	103	104
1939	102	97	98	111	104	107	108
1940	118	113	113	113	123	119	113
1941	131	115	115	120	139	131	118
1942	144	118	117	125	152	141	121
1943	159	122	122	127	168	151	124
1944	167	129	128	130	173	156	127
1943	170	139	138	132	176	158	128
1946	190	152	151	134	175	159	129
1947	226	192	189	144	179	165	133
1948	230	213	209	158	201	184	144
1949	210	207	203	161	197	182	146
1950	230	292	284	183	209	199	155
1951	269	341	333	213	244	231	172
1952	293	268	265	211	275	257	185
1953	277	296	291	245	261	254	193

The following diagram, which is based on the index numbers shown in the preceding table, further illustrates the fluctuations that have occurred in the export, import, and wholesale (locally produced items) series since 1926.

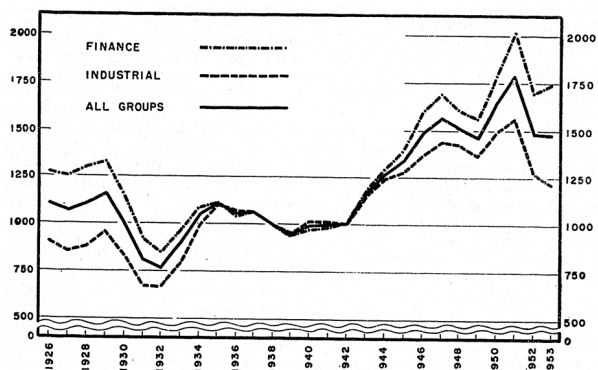


SHARE PRICES.—Changes in the market value of shares listed on the Stock Exchange give a very sensitive indication of changes in business conditions generally. A series of index numbers of share prices on base: 1926 (= 1000), and instituted in 1932, was published by the Census and Statistics Department for some considerable time, but in conformity with the usual international practice of revising index numbers at intervals, and advancing the base to a later period in point of time, the present revised series of index numbers is based on the year 1938. The market prices—as on the last trading day in each month—of shares of forty-four representative companies, with shares listed on the New Zealand Stock Exchanges, form the basis on which the indices have been computed. The selection of the shares for inclusion in the index number was made with the object of reflecting New Zealand economic conditions; and, consequently, with one or two exceptions, only companies whose business is conducted largely or wholly in New Zealand are included. The index numbers are for ordinary shares, the prices of which vary directly with the profits of the company. The market prices on which the index numbers are based have been extracted from Stock Exchange lists of individual exchanges prior to September 1929, and from the list of share prices included in the *Stock Exchange Gazette* and its successor, the *Official Record of the Stock Exchanges of New Zealand*, since that date. The prices quoted relate to the last trading day in each month; so that the "monthly" index numbers compiled from these data relate to that day only, while the annual averages represent the averages of the monthly index numbers. Each individual share price, and each group, is weighted in accordance with the number and value of shares held in New Zealand. The index numbers of New Zealand share prices give an indication of changes in share values as compared with the base year. In particular, they are intended to indicate the changes in value of a parcel of representative ordinary shares as compared with their 1938 value. The base adopted in this revised series is the average price ruling during the year 1938 (= 1000).

Shares in industrial companies and in finance, etc., companies have been computed separately, and the annual index numbers from 1926 to 1953 on base: 1938 (= 1000) are as follows.

Year	Industrial Groups	Finance, etc.	Groups All Groups
1926	909	1271	1108
1927	851	1254	1073
1928	879	1301	1111
1929	960	1330	1163
1930	835	1147	1007
1931	674	921	810
1932	667	852	769
1933	804	972	897
1934	996	1097	1051
1935	1102	1120	1112
1936	1075	1043	1057
1937	1075	1067	1069
1938	1000	1000	1000
1939	959	945	952
1940	1024	978	999
1941	1021	984	1001
1942	1005	1014	1010
1943	1156	1188	1174
1944	1249	1304	1279
1945	1285	1400	1346
1946	1372	1601	1486
1947	1444	1697	1570
1948	1430	1609	1520
1949	1368	1566	1467
1950	1499	1795	1647
1951	1566	2027	1796
1952	1275	1697	1485
1953	1216	1747	1482

The fluctuations in share prices since 1926 are clearly shown in the accompanying diagram, which is based on the foregoing index numbers.



An indication of movements in the index numbers for individual groups may be gauged from the following tables, the first of which is confined to the industrial groups.

SHARE-PRICES.—INDEX NUMBERS BY GROUPS

Base: Average for each group, 1938 (= 1000)

Year	Frozen Meat	Woolens	Gas	Timber	Minerals	Miscellaneous (Industrial)	All Industrial Groups
1943	1438	1617	847	1217	1050	1159	1156
1944	1613	1753	900	1360	1087	1253	1249
1945	1693	1746	894	1432	1096	1297	1285
1946	1874	1941	909	1555	1086	1399	1372
1947	2067	2005	894	1650	1262	1432	1444
1948	2092	1955	875	1542	1321	1404	1430
1949	2009	1890	869	1478	1325	1309	1368
1950	2125	1933	934	1792	1400	1463	1499
1951	2311	1973	818	2210	1476	1504	1566
1952	1726	1665	666	1694	1254	1248	1273
1953	1864	1634	624	1387	1135	1196	1216

Year	All Industrial Groups	Banks	Insurance	Loan and Agency	Miscellaneous (Other)	All Finance, etc., Groups	All Groups Combined
1943	1156	988	1492	1095	1279	1188	1174
1944	1249	1059	1619	1201	1492	1304	1279
1945	1285	1097	1749	1269	1590	1400	1346
1946	1372	1152	1861	1446	1830	1601	1486
1947	1444	1284	1876	1729	1940	1697	1570
1948	1430	1171	1770	1715	1893	1609	1520
1949	1368	1079	1745	1709	1868	1566	1467
1950	1499	1220	2012	2174	2032	1795	1647
1951	1566	1251	2350	2587	2263	2027	1796
1952	1273	1029	1972	2058	1967	1697	1485
1953	1216	1039	2080	2091	1971	1747	1482

NOTE.—Index numbers in these tables are comparable vertically but not horizontally.

Monthly index numbers of share prices throughout the years quoted (including the latest five years) are given in the following table, the base being 1938 (= 1000).

Month	1932	1935	1939	1945	1949	1950	1951	1952	1953
<i>Industrial Groups</i>									
January	668	1086	956	1240	1395	1440	1639	1378	1178
February	632	1075	954	1247	1377	1463	1617	1296	1162
March	621	1071	938	1252	1363	1469	1611	1294	1162
April	618	1103	941	1267	1355	1462	1599	1295	1165
May	630	1097	968	1270	1358	1462	1603	1300	1185
June	646	1112	948	1276	1342	1485	1597	1283	1195
July	669	1132	958	1305	1346	1479	1579	1295	1226
August	701	1106	939	1321	1351	1504	1575	1284	1248
September	738	1090	927	1321	1364	1535	1562	1250	1263
October	718	1111	959	1315	1372	1533	1529	1239	1282
November	699	1123	1004	1300	1381	1559	1459	1181	1268
December	662	1117	1022	1305	1410	1599	1419	1179	1264
<i>Finance, etc., Groups</i>									
January	865	1136	947	1315	1380	1684	2021	1838	1639
February	824	1101	942	1325	1362	1720	2046	1693	1646
March	823	1107	935	1334	1355	1716	2037	1737	1651
April	815	1136	921	1355	1329	1717	2012	1697	1675
May	809	1125	946	1376	1375	1742	2022	1694	1696
June	812	1126	934	1401	1348	1806	2064	1674	1707
July	869	1139	950	1425	1348	1779	2057	1686	1760
August	901	1155	941	1432	1366	1809	2034	1706	1781
September	920	1117	927	1414	1367	1827	2056	1675	1806

* Interpolated.

Month	1932	1935	1939	1945	1949	1950	1951	1952	1953
October	897	1099	949	1404	1574	1868	2075	1668	1832
November	875	1097	974	1502	1584	1906	1985	1648	1884
December*	818	1092	978	1511	1625	1963	1912	1644	1890
<i>All Groups</i>									
January	777	1114	951	1281	1487	1562	1830	1608	1408
February	738	1094	947	1290	1470	1592	1831	1495	1404
March	732	1091	935	1297	1449	1593	1824	1515	1407
April	726	1121	930	1315	1442	1590	1806	1496	1420
May	728	1113	956	1328	1466	1602	1812	1497	1441
June	738	1120	940	1345	1445	1646	1830	1478	1451
July	779	1136	954	1371	1447	1629	1818	1491	1493
August	811	1133	940	1382	1459	1656	1804	1495	1515
September	838	1105	927	1372	1466	1681	1809	1462	1535
October	817	1105	953	1364	1473	1700	1802	1453	1557
November	796	1109	987	1401	1483	1732	1722	1415	1576
December*	748	1103	998	1408	1518	1781	1665	1411	1577

* Interpolated.

Yields on Market Prices of Shares.—A series of index numbers of yields on market prices of New Zealand domiciled ordinary shares has been compiled covering the same companies and using the same group weights as for the share-prices series.

The yield figures forming the basis of the index numbers are in most cases based on those published in the *Official Record of the Stock Exchanges of New Zealand*, and the monthly figures relate to the market price ruling at the end of the month and the rate of dividend last paid by the particular company.

Average annual index numbers of yields have been compiled back to the year 1929 on base: average for each group, 1938 (= 1000), and are given here for the years 1929 to 1953.

Year	Industrial Groups	Finance, etc., Groups	All Groups
1929	1104	1091	1097
1930	1274	1277	1276
1931	1347	1434	1395
1932	1234	1278	1258
1933	881	890	886
1934	806	777	790
1935	749	813	784
1936	825	860	843
1937	886	884	885
1938	1000	1000	1000
1939	1042	1067	1055
1940	997	1032	1016
1941	991	1016	1005
1942	943	991	969
1943	735	819	781
1944	698	754	729
1945	676	714	697
1946	632	697	664
1947	657	698	677
1948	680	725	703
1949	698	753	726
1950	663	693	678
1951	678	676	677
1952	778	890	834
1953	878	925	901

Monthly index numbers of yields on base: average for each group, 1938 (= 1000), are given hereunder for each month of the years 1951 to 1953.

Month	1951	1952	1953	1951	1952	1953	1951	1952	1953
January	633	717	872	643	757	979	638	737	926
February	640	756	892	637	833	974	639	794	933
March	645	758	892	641	823	971	643	790	932
April	664	755	897	650	836	961	657	795	929
May	671	762	907	684	886	949	678	824	928
June	677	775	899	670	902	936	673	838	918
July	682	768	876	676	911	918	679	839	897
August	683	775	867	694	898	902	688	836	885
September	686	800	855	695	921	886	690	861	871
October	699	805	846	690	960	881	695	882	863
November	737	823	857	711	979	882	724	901	869
December*	727	847	872	734	979	881	730	913	876

* Interpolated.

SUMMARY OF PRICE MOVEMENTS.—The following table gives a summary on base: first quarter, 1949 (= 1000), for the last eleven years available of the movements in the more important series of price index numbers.

Year	Retail (Linked Series)		Wholesale			Export		Import	Share Prices, All Groups
	Food	All Groups	Locally Produced Items	Imported Items	All Groups	All Pastoral and Dairy Produce	All Groups		
1943	816	856	801	852	833	609	618	780	799
1944	829	872	819	881	858	640	649	820	871
1945	829	884	835	894	873	691	699	840	916
1946	830	891	849	891	875	757	764	930	1012
1947	881	919	909	909	908	957	957	1110	1069
1948	995	992	998	1022	1012	1060	1059	1130	1035
1949	1023	1009	1018	1000	1005	1030	1027	1030	999
1950	1123	1066	1159	1063	1095	1454	1440	1130	1121
1951	1292	1183	1349	1237	1275	1698	1686	1320	1223

Year	Retail (Linked Series)			Wholesale			Export			Import	Share Prices, All Groups
	Food	All Groups		Locally Produced Items	Imported Items	All Groups	All Pastoral and Dairy Produce	All Groups			
1952	1423		1275	1462	1394	1417	1336	1341	1440		1011
1953	1509		1333	1547	1325	1402	1473	1477	1360		1009

Chapter 37. SECTION 37—WAGE RATES AND HOURS OF LABOUR

Table of Contents

THE material used in the compilation of statistics of wage rates in New Zealand is taken from the awards made by, and the industrial agreements filed in, the Court of Arbitration, and decisions of other wage-fixing tribunals. It is recognized that the rates specified in Court awards are minimum rates, and that wages may in some cases be above the prescribed minima, so that a rise or fall in the award rates does not necessarily involve an immediate change in the wage rates of those workers who are being paid above award rates. Nevertheless, for the purpose of tracing the movement in wage rates over any considerable space of time the award rates form a more reliable basis than any other information at present available. Prior to the passing of the Agricultural Workers Act 1936, no fixed rates of wages for farm employees existed; and for this group figures of ruling wage rates were reported by Inspectors of Factories attached to the Department of Labour and Employment. During the period 1932-36, in cases where district awards lapsed under legislation then in force, figures were interpolated, based on fluctuations in corresponding rates in other districts.

The award rates for the four principal districts—Northern, Wellington, Canterbury, and Otago and Southland—are in general taken as being representative of the ruling wages throughout New Zealand. For such industries as are carried on in the towns these rates are quite satisfactory; in cases where the important centre of an industry is situated outside the geographical boundaries of the four principal districts, the award rates for that centre are used. For instance, the rates used for coal mining and sawmilling in the Canterbury District are those prescribed by the awards for the Westland Industrial District.

The system of compilation of wage-rates index numbers was revised in 1936, and the index numbers appearing in the following pages are on the same base period as in the case of the wholesale-prices index—viz., the average of the five years 1926-30 (= 1000). Clerical workers and salaried officials are excluded from the scope of these indices.

WAGE RATES OF ADULT MALE WORKERS: Method of Weighting.—The weights used in the computation of the indices were derived mainly from three sources—viz., (1) the occupations statistics of the 1926 census, (2) the annual factory production statistics, and (3) the membership rolls of trade unions registered under the Industrial Conciliation and Arbitration Act 1925. Occupations are grouped into industries, with an appropriate weight for each occupation and each industry, while industries are grouped into fourteen principal industrial groups, these also being given appropriate weights. The weights for the individual occupations and industries have been derived from the census or the factory production statistics; while the industrial-group weighting has been taken partly from these sources and partly from the membership of trade unions registered under the Industrial Conciliation and Arbitration Act. In the case of workers on the land, use was also made of information formerly obtained by means of the annual collections of agricultural and pastoral statistics. Full details of the weighting appeared in the Statistical Report on Prices, etc., for the year 1935. With a view to bringing the weighting and the occupational classification into closer accord with current conditions, a complete revision of the index is now being undertaken.

Nominal Weekly Wage-rates Index Numbers.—Index numbers of annual averages of nominal weekly wage rates of adult males over the period 1914-53 are given in the following table. The base in this case is the weighted average of weekly wage rates for adult males in 1926-30 (= 1000).

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT MALES), ALL INDUSTRIAL GROUPS Base: 1926-30 (= 1000)

Year	Index Number
1914	623
1915	646
1916	671
1917	711
1918	746
1919	810
1920	913
1921	988
1922	957
1923	921
1924	929
1925	922
1926	966
1927	985
1928	1016
1929	1017
1930	1017
1931	942
1932	864
1933	833
1934	839
1935	858
1936	950
1937	1036
1938	1081
1939	1100
1940	1130
1941	1170
1942	1222
1943	1261
1944	1274
1945	1381
1946	1434
1947	1489
1948	1588
1949	1678
1950	1793
1951	2039
1952	2143
1953	2284

The wage rates on which the foregoing index numbers are based are gross rates, no account having been taken of the fact that from August 1931 wages have been subject to certain forms of taxation not previously in operation. A summary of these taxes on wages since their introduction is as follows.

Date From Which Effective	Rate Per Pound	Class of Tax	
		s.	d.
1 August 1931	0	3	Emergency unemployment charge.
1 May 1932	1	0	Emergency unemployment charge.
1 October 1934	0	10	Employment promotion tax.
1 October 1935	0	8	Employment promotion tax.
1 April 1939	1	0	Social security tax.
21 July 1940	2	0	Social security tax (1s. in pound).
			National security tax (1s. in pound).
11 May 1942	2	6	Social security tax (1s. in pound).

Date From Which Effective	Rate Per Pound	Class of Tax	
		National security tax (1s. 6d. in pound).	
13 May 1946	2	0	Social security tax (1s. 6d. in pound).
		National security tax (6d. in pound).	
21 April 1947	1	6	Social security tax.

In explanation of the movements recorded in the preceding table of index numbers the more important changes in rates of wages during the last fourteen years are briefly surveyed; the changes over the period 1919-36 being quoted on pages 636-637 of the 1947-49 Year-Book.

It should first be noted, however, that the powers of the Court of Arbitration as regards wage fixation have been amended repeatedly in recent years. In this connection reference should be made to the distinctions between the "basic wage," the "minimum wage," "standard rates of wages," and "general orders" which are elaborated in Section 38C. The index numbers of rates of wages shown above, being based predominantly on award rates, have not been influenced by either "basic wage" rates or the "minimum wage" rates which have, in effect, superseded the basic wage; "minimum wage" rates themselves having no practical application where awards exist. The effects of standard rates pronouncements and of general orders are, on the other hand, clearly visible.

As from 15 December 1942 rates of remuneration, already brought under control by the Rates of Wages Emergency Regulations 1940, were stabilized by the Economic Stabilization Emergency Regulations 1942. General orders and later, pronouncements of standard rates, could be made under these regulations and their amendments. Nevertheless, in practice, stabilization of wage rates, even apart from general increases granted by the Court of Arbitration in either of these ways, was not absolute. The Court, in making or amending any award, was, from 1945 to 1950, required to have regard to the restoration or preservation of a proper relationship with other rates of remuneration, not excluding actual rates over which the Court had no jurisdiction. The result was that although the index ignored the margin—a margin subject to continual fluctuation—between actual rates and minimum award rates, it did during the period of stabilization continue to show a certain gradual upward movement as awards were amended from time to time. Regulations made in 1950 under the Economic Stabilization Act 1948 omitted the above-mentioned requirement as to relationship with other rates as well as the provision for pronouncements of standard rates, and at the same time abolished control of maximum rates. Pronouncements of standard rates might still be made by the Court of its inherent power, but such rates could not be written into awards or industrial agreements until the current term of either had expired.

In February 1952, however, new regulations were issued restoring the Court's specific powers not only to pronounce standard rates, but also to amend current awards and industrial agreements accordingly. These specific powers had previously been held by the Court, as regards pronouncements from 1945 to 1950, and as regards their implementation by amending awards and agreements from 1947 to 1950. More frequent wage adjustments were also allowed by these 1952 regulations, which provided that either a general order may take effect or a standard rates pronouncement may be made not sooner than six (instead of twelve) months after a previous general order has taken effect or a pronouncement has been made. The Court was also given discretionary power to make a general order on an application for a standard wage pronouncement, and to make a standard wage pronouncement on an application for a general order.

An amendment to these 1952 regulations was issued in May of the same year enabling representatives of the parties bound by orders of the Government Service Tribunal, the Government Railways Industrial Tribunal, and the Waterfront Industry Tribunal to appear and make submissions on the hearing by the Court of Arbitration, of applications for general orders or of applications for standard wage pronouncements.

The 1952 regulations were revoked in May 1953 by the Economic Stabilization Regulations 1953, the principal changes made being as follows: The provision requiring the Court to take into account the general purpose of the Economic Stabilization Act 1948 is omitted, but the Court is required to take into account any increase or decrease in the volume and value of production in primary and secondary industries in New Zealand; the regulations no longer empower the Court to make standard wage pronouncements, but the power is continued to amend awards and industrial agreements to give effect to the pronouncement of 12 July 1952 (such amendments may be made retrospective to 1 September 1952). Subject to these alterations existing provisions are repeated enabling the Court to make general orders, to exclude special classes of workers from general orders (with the time for application extended from 21 days to 28 days), to apply general orders to apprentices, and to adjust rates which automatically fix the scope of awards so as to conform with general orders.

Later in 1953 amending regulations were issued providing, firstly, that on making a general order under the principal regulations the Court, in taking into account the prescribed matters, may consider events that occurred before the date of the last standard wage pronouncement or general order and events likely to occur in the future; and, secondly, that whereas the hearing of an application for a general order set down for 8 September 1953 could not commence on that date, the Court is given discretionary power to fix a date for the commencement of the general order before the date on which it is made, but not earlier than 15 September 1953.

In the exercise of its powers the Court has during the war and post-war years issued the following judgments:

From 12 August 1940 an increase of 5 per cent was granted by general order in all rates of remuneration prescribed by awards, industrial agreements, and apprenticeship orders.

A further general order awarded, as from 7 April 1942, a second increase of 5 per cent—in the already increased rates—but with certain maxima (i.e., 5s. weekly for adult males, 2s. 6d. weekly for adult females, and 1s. 6d. weekly for juveniles).

The standard rates pronounced in 1945, 1947, 1949, and 1952 are quoted in Section 38C, together with those already current when the general orders of 1940 and 1942 took effect. As regards the inclusion of these general orders in standard rates, the 1945 standard rates were net rates and those of later years gross rates. Amendments to awards consequential upon these alterations in standard rates took effect from 1 April 1945, 1 October 1947, 1 June 1949, and 1 September 1952 respectively.

From 8 May 1950 all rates of remuneration provided for in awards and industrial agreements were, by interim general order dated 10 June 1950, again increased by 5 per cent, but with maximum increases of 7s. weekly for adult males and 4s. 9d. weekly for other workers. This interim order was superseded by a further general order made on 30 January 1951, and taking effect from 15 February 1951. The new order embraced the revocation of the interim order and the substitution of an increase of 15 per cent—without any prescribed maximum—in all rates of remuneration provided for in awards and industrial agreements (except in certain specified awards which had been made since the date of the interim order). The effect of this increase on wage index numbers is apparent in the 1951 figures.

Following on the hearing of an application for a general order increasing rates of remuneration, at which—in accordance with the provisions of the May 1952 amending regulations—representatives of the Public Service Association, the Public Service Commission, and the Railways Department attended, the Court, on 12 July 1952, took advantage of its powers under the February 1952 regulations by pronouncing new standard rates in preference to making a general order. These rates (which were gross rates) were as follows:

Skilled workers: 5s. per hour.

Semi-skilled workers: 4s. 5d. to 4s. 8d. per hour.

Unskilled workers: 4s. 3½d. per hour.

They were incorporated into amended awards which came into effect on 1 September 1952, the provisions of the general order of January 1951 thereupon ceasing to apply. The 1952 wage-rate index numbers were, of course, influenced by this pronouncement, but its full effect on the annual series was not manifest until 1953.

The 1953 indices in their turn partially reflect the general wage order dated 19 November of that year, though the first complete calendar year following the introduction of the new rates will be 1954. This order, made on an application sponsored by the New Zealand Federation of Labour and supported by the New Zealand Public Service Association, was, in the exercise of the Court's powers under the regulations of September 1953, back-dated to 15 September 1953. The increase granted was 10 per cent of all award rates with maxima of 24s. weekly in the case of adult males, 18s. weekly in the case of adult females, and 14s. weekly in the case of junior workers.

Index numbers for 1953 of nominal and effective weekly wage rates, and of hourly wage rates, will be found in the "Latest Statistical Information" at the forefront of this volume.

The next table shows the index numbers of nominal weekly wage rates of adult males for each industrial group and for all groups combined. Where board and (or) lodging is a usual perquisite attached to any occupation (e.g., hotel workers), an allowance estimated to cover the value of such has been added to the money wage rate. The base in this instance is the New Zealand weighted average wage rate for all groups combined, 1926-30 (= 1000).

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT MALES)

Base: All groups combined, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	1107	665	1266	1678	1802	1916	2125	2266
Clothing, footwear, and textiles	1020	607	1122	1601	1702	1825	2060	2143
Building and construction	1027	654	1126	1553	1650	1752	2003	2066
Power, heat, and light	1096	656	1194	1616	1695	1794	2062	2140
Transport by water	1107	654	1217	1796	1898	2010	2236	2367
Transport by land	1051	617	1116	1579	1654	1744	2013	2080
Accommodation, meals, and personal service	972	660	1077	1475	1583	1651	1839	1917
Working in or on—								
Wood, wicker, seagrass, and fibre	1078	034	1179	1632	1725	1821	2109	2177
Metal	1108	7	1241	1651	1745	1894	2149	2234
Stone, clay, glass, and chemicals	1024	584	1139	1515	1599	1710	1928	2010
Paper, printing, etc.	1190	757	1250	1671	1773	1896	2186	2283
Skins, leather, etc.	1046	600	1116	1499	1589	1688	1894	1975
Mines and quarries	1043	664	1117	1647	1727	1841	2097	2131
The land (farming pursuits)	769	519	859	1470	1547	1681	1919	2087
All groups combined	1000	623	1100	1588	1678	1793	2039	2143

NOTE.—The index numbers in this table are comparable both vertically and horizontally.

The distinction of having the highest index number, which was surrendered by the "paper, printing, etc." group to the "food, drink, etc." group in 1938, was in 1941 acquired by the "transport by water" group, and has been held by the same group in each subsequent year.

The lowest index for 1952 was that for the group "accommodation, meals, and personal service" (1917), followed by "working in skins, leather, etc." (1975). For some years prior to 1950 the lowest group index was that for "working on the land." From 1948, however, this group made considerable advances, principally due to the fact that the formula adopted for determining shearers' wages (see page 939) is based on wool prices, which for four or five years after the resumption in 1946 of normal wool sales exhibited a strong upward movement. In both the groups "accommodation, meals, and personal service," and "working on the land," as also in the "transport by water" group, the estimated value of board and lodging is, where applicable, added to the money wage rate in order to make a legitimate comparison with other industries. Also included in the wages for workers in the "transport by water" group is a sea-going allowance of £6 18s. per calendar month where applicable. In the case of waterside workers (an important subgroup of the "water transport" group) these allowances are not, of course, applicable.

Movements in Individual Groups.—The index numbers in the preceding table being on a national all-groups base, comparisons between movements in individual groups cannot be readily made; an increase in a group in which the index numbers are consistently low being considerably smaller numerically than would be an increase of the same percentage in one where the index numbers are higher. The following table brings out the movements in the various groups more clearly. The respective bases are the New Zealand average weekly wage rates for each industrial group, 1926-30 (= 1000).

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT MALES)

Base: Each group separately, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	1000	601	1144	1516	1629	1732	1920	2047
Clothing, footwear, and textiles	1000	596	1100	1570	1669	1789	2020	2101
Building and construction	1000	637	1097	1513	1608	1707	1950	2013
Power, heat, and light	1000	600	1090	1476	1547	1638	1882	1953
Transport by water	1000	592	1100	1624	1716	1817	2019	2138
Transport by land	1000	588	1063	1504	1575	1661	1916	1979
Accommodation, meals, and personal service	1000	680	1109	1518	1629	1699	1891	1971
Working in or on—								
Wood, wicker, seagrass, and fibre	1000	588	1094	1515	1601	1690	1957	2021
Metal	1000	647	1120	1490	1574	1709	1939	2016
Stone, clay, glass, and chemicals	1000	576	1112	1480	1563	1670	1883	1963
Paper, printing, etc.	1000	637	1050	1404	1489	1593	1837	1918
Skins, leather, etc.	1000	574	1068	1434	1520	1615	1811	1888
Mines and quarries	1000	637	1071	1580	1656	1766	2010	2043
The land (farming pursuits)	1000	675	1116	1912	2011	2186	2494	2713
All groups combined	1000	623	1100	1588	1678	1793	2039	2143

Care must be exercised in drawing inferences from this table, for, while horizontal comparisons are quite valid, the vertical comparison between the various groups is valid only in so far as it shows in which groups the greater or the smaller movements have occurred. For example, the 1952 index for the "paper, printing, etc." group is 795 points below that for the "land" in this table, but 196 points above in the previous table on the all-groups base, the reason being that wages of workers in the former group have increased to a lesser degree than have those in the latter, although the actual rates of wages are still considerably higher.

Indices of Hourly Wage Rates.—Legislative reductions in weekly hours of labour have rendered it desirable that indices of hourly wage rates should be made available. These shorter working hours were prescribed mainly by the 1936 legislation, the Shops and Offices Amendment Acts of 1945 and 1946, and the Factories Amendment Act 1945. Further details of these changes will be found on pages 922-925. It will be noticed that the indices given hereunder (as is also the case in respect of the indices of weekly hours of labour) cover thirteen only out of the fourteen industrial groups commonly adopted, since working hours on farms (which would be essential to the fourteenth group) cannot for this purpose be satisfactorily treated statistically. The base is the New Zealand average hourly wage rate (computed as described after the following tables) for all groups combined, 1926-30 (= 1000).

HOURLY WAGE-RATES INDEX NUMBERS (ADULT MALES)

Base: All groups combined, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	1028	548	1253	1810	1945	2068	2293	2444
Clothing, footwear, and textiles	975	568	1181	1728	1837	1969	2223	2312
Building and construction	981	619	1216	1676	1781	1891	2160	2229
Power, heat, and light	1005	579	1283	1745	1829	1936	2224	2308
Transport by water	960	560	1248	1908	2016	2135	2373	2513
Transport by land	954	552	1153	1704	1785	1882	2171	2243
Accommodation, meals, and personal service	874	466	1130	1592	1709	1782	1983	2068
Working in or on—								
Wood, wicker, seagrass, and fibre	1015	597	1274	1762	1861	1965	2275	2349
Metal	1087	665	1340	1782	1883	2044	2318	2410
Stone, clay, glass, and chemicals	941	532	1221	1635	1726	1845	2080	2168
Paper, printing, etc.	1198	747	1349	1803	1913	2046	2358	2463
Skins, leather, etc.	942	540	1158	1617	1715	1822	2044	2131
Mines and quarries	1009	633	2095	1850	2020	2153	2452	2491
All groups combined	1000	589	1235	1752	1858	1976	2245	2336

The same table is now given with a different base—viz., the New Zealand average hourly wage rate for each group individually, 1926-30 (= 1000).

HOURLY WAGE-RATES INDEX NUMBERS (ADULT MALES)

Base: Each group separately, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	1000	533	1219	1761	1892	2011	2230	2377
Clothing, footwear, and textiles	1000	583	1211	1773	1884	2020	2280	2371
Building and construction	1000	631	1239	1708	1815	1927	2201	2272
Power, heat, and light	1000	585	1277	1736	1820	1926	2213	2297
Transport by water	1000	584	1301	1988	2101	2225	2473	2618
Transport by land	1000	579	1208	1785	1870	1971	2275	2350
Accommodation, meals, and personal service	1000	534	1293	1822	1955	2039	2270	2366
Working in or on—								
Wood, wicker, seagrass, and fibre	1000	585	1253	1735	1833	1935	2240	2313
Metal	1000	611	1232	1639	1731	1880	2132	2217
Stone, clay, glass, and chemicals	1000	571	1298	1738	1835	1962	2211	2305
Paper, printing, etc.	1000	623	1126	1505	1597	1708	1968	2056
Skins, leather, etc.	1000	573	1229	1716	1820	1933	2169	2261
Mines and quarries	1000	627	1194	1833	2001	2133	2429	2468
All groups combined	1000	589	1235	1752	1858	1976	2245	2336

The figures shown in the last two tables are derived from average hourly rates calculated in every case by dividing the corresponding average weekly rate by the average number of hours worked in the week.

WAGE RATES OF ADULT FEMALE WORKERS.—Index numbers showing movements in wage rates of women workers are compiled, using the award rates of the Court of Arbitration as representative of the ruling rates of wages. A much smaller list of occupations is used than in the case of computing index numbers of wage movements for male workers. Although only fifteen occupations are taken into consideration in the case of women workers, these occupations normally cover a large proportion of the total women in industry—more than sufficient to constitute a representative sample for measuring movements in wages. The weights used have been computed from data as to occupations from the 1926 census results.

The following table shows index numbers of women's wage rates on base: New Zealand all-groups weighted average, 1926-30 (= 1000), divided into the principal industries in which women workers are normally engaged. It should be noted that in the compilation of these indices neither domestic servants employed in private homes, nor nurses nor female clerical workers, are represented; also that, as with adult males, the value of such prerequisites as board and lodging in the case of hotel workers has been added to the money wage rates.

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT FEMALE) Base: All groups combined, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	846	390	950	1628	1742	1882	2164	2235
Clothing, footwear, and textiles	919	534	1029	1735	1872	2042	2297	2392
Accommodation, meals, and personal service	1243	836	1334	1913	2069	2159	2413	2525
Working in paper, printing, etc.	1051	487	1110	1565	1690	1850	2077	2207
All groups combined	1000	602	1103	1764	1906	2054	2309	2408

Movements in Individual Groups.—Movements within the various groups are brought out more clearly in the next table, the base in this case being the New Zealand weighted average weekly rate of each group, 1926-30 (= 1000). As with the similar table relating to male wage rates (p. 900), horizontal comparisons are valid, but vertical comparisons merely show in which groups the greater or smaller movements have occurred.

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT FEMALE) Base: Each group separately, 1926-30 (= 1000)

Industrial Group	1926-30	1914	1939	1948	1949	1950	1951	1952
Provision of—								
Food, drink, etc.	1000	459	1124	1927	2061	2228	2561	2645
Clothing, footwear, and textiles	1000	578	1120	1888	2037	2222	2499	2602
Accommodation, meals, and personal service	1000	670	1074	1540	1666	1738	1942	2032
Working in paper, printing, etc.	1000	559	1055	1488	1607	1759	1975	2099
All groups combined	1000	602	1103	1764	1906	2054	2309	2408

WEEKLY WAGE RATES: ALL ADULT WORKERS.—A series of index numbers has been computed on the base 1926-30 (= 1000) for all adult workers. Prior to 1945 this followed in general the index for adult males; since then there has been increasing divergence, female wage rates having on the whole made relatively greater gains than male rates. Index numbers for the last fourteen years available are as follows.

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (ADULT MALES AND FEMALE COMBINED), ALL INDUSTRIAL GROUPS

Base: 1926-30 (= 1000)

Year	Index
1939	1100
1940	1132
1941	1171
1942	1224
1943	1265
1944	1277
1945	1389
1946	1446
1947	1503
1948	1607
1949	1702
1950	1821
1951	2068
1952	2171

EFFECTIVE WEEKLY WAGE RATES.—The index numbers quoted in the foregoing paragraphs relate to nominal weekly wage rates only—that is, they are based on actual or equivalent money rates without any allowance being made for changes during the period under review in the prices of those goods and services which are purchased out of wages earned. It is obvious that this factor is of considerable importance, for a rise in wage rates may be offset by a fall in the purchasing power of the monetary unit, while, on the other hand, a fall in money wages may be offset by a rise in the purchasing power of money. Changes in the index numbers of retail prices (refer Section 36) are inversely proportional to changes in the purchasing power of the pound on the retail market; hence index numbers of effective (or "real") wage rates are arrived at by dividing the index numbers of nominal wage rates by the corresponding all-groups index numbers of retail prices and multiplying by the base value of 1000.

The following table accordingly shows a comparison of nominal and effective weekly wage rates of adult male and female workers in each of the years 1942-52. The base of the index numbers is in each case the average of the five years 1926-30 (= 1000).

Year	Retail Prices (All Groups)	Nominal Weekly Wage Rates		Effective Weekly Wage Rates	
		Males	Females	Males	Females
1942	1109	1222	1234	1102	1113
1943	1134	1261	1292	1112	1139
1944	1155	1274	1297	1103	1123
1945	1170	1381	1459	1180	1247
1946	1180	1434	1533	1215	1299
1947	1217	1489	1614	1224	1326
1948	1314	1588	1764	1209	1342
1949	1336	1678	1906	1256	1427
1950	1411	1793	2054	1271	1456
1951	1566	2039	2309	1302	1474
1952	1688	2143	2408	1270	1427

The continuous series of retail prices index numbers required for the foregoing table has been obtained by linking the consumers' price index to the earlier series on the base 1926-30.

In making use of these results it should not be overlooked that the index numbers of nominal wage rates apply only to full-time employment at award rates of pay. They do not take into account either on the one hand above-award rates or overtime earnings, or on the other short-time deductions or wages tax imposed (a summary of the rates of wages tax in force during different periods will be found on page 897.) Nor do the retail prices index numbers take cognizance of all classes of household expenditure; income tax, charitable and other gifts, domestic help, etc., and particularly expenditure on alcoholic liquors and private motoring, being omitted. Having regard to opportunities for spare-time gainful occupation, a comparison with movements in the index numbers of hours of labour shown later in this Section is also relevant.

To the extent that female wages are not normally devoted to purchasing the full range of household requirements the results of employing the all-groups retail prices index to determine effective wages for females are subject to certain limitations. Their general application is, however, still valid.

WAGE RATES OF JUVENILE WORKERS.—During 1936 the compilation of index numbers of wage rates of juveniles was undertaken for the first time, and the results appeared in the introductory notes to the 1935 and 1936 issues of the annual Statistical Report on Prices, etc.

Owing to the fact that a number of industries utilize juvenile labour to a limited extent only, or not at all, it has not been possible to cover a very wide field, but thirty-two occupations representing twelve out of the fourteen industrial groups are included in the case of juvenile males, and four occupations representing three industrial groups in the case of juvenile females.

Wherever possible the weekly wage rate adopted in the compilation of the indices is that provided for a worker having attained the age of eighteen years or having completed three years' service, according to the terms of the award.

In the table which follows the base is, in each case, the New Zealand all-groups weighted average of weekly wage rates, 1926-30 (= 1000).

NOMINAL WEEKLY WAGE-RATES INDEX NUMBERS (JUVENILE WORKERS)

Base: All groups combined, each sex separately, 1926-30 (= 1000)

Industrial Group	1914	1939	1948	1949	1950	1951	1952
	Juvenile Males						
Provision of—							
Food and drink	665	1260	1935	2089	2246	2540	2667
Clothing, footwear, and textiles	544	1032	1937	2091	2305	2621	2732
Building and construction	592	1073	2079	2260	2486	2799	2892
Transport by land	609	1156	1533	1657	1748	1931	2026
Accommodation, meals, and personal service	562	1136	1923	2075	2241	2734	2864
Working in or on—							
Wood, wicker, seagrass, etc.	554	1156	1961	2089	2287	2581	2699
Metal	487	1209	2055	2193	2481	2742	2840
Stone, clay, glass, and chemicals	511	1294	1704	1819	1943	2212	2298
Paper, printing, etc.	609	974	2174	2304	2393	2726	2845
Skins, leather, etc.	746	1209	1682	1866	1987	2266	2466
Mines and quarries	1142	2028	3154	3337	3574	3947	4003
The land (farming pursuits)	680	1217	2235	2387	2573	2892	3122
All industrial groups	619	1191	2108	2258	2462	2761	2911
	Juvenile Females						
Provision of—							
Food and drink	512	1287	2010	2217	2398	2917	3055
Clothing, footwear, and textiles	640	1318	2204	2362	2612	2944	3014
Working in paper, printing, etc.	*	1380	2207	2372	2530	2817	2994
All industrial groups	616	1320	2171	2338	2565	2924	3019

* No provision made in awards for juvenile females.

In recent years juvenile wages have been largely governed by the Apprentices Act 1948, under which the scale of wages in apprenticeship orders is based on a percentage of the ruling minimum rates for journeymen in the industry concerned. Consequently, the wage-rate index numbers for juvenile males now tends to move in sympathy with the index numbers of male adult wage rates.

AVERAGE RATES OF WAGES.—The following table shows the New Zealand minimum weekly wage rates in various occupations for the years 1914, 1939, and 1949-53. The figures given are simple averages for the four principal industrial districts as at 31 March in the years indicated. The adult male wage rates on the same basis as at 31 March 1954 will be found in the "Latest Statistical Information" at the beginning of this volume. The rates shown throughout this table are money rates, and do not include any allowance for the value of board and lodging which is a usual perquisite of the employment of some workers—e.g., seamen and hotel employees. Further information on this latter point is available in the note given at the end of the table.

Occupation	Average Wage (Four Principal Districts) at 31 March							
	1914	1939	1949	1950	1951	1952	1953	
	s.	d.	s.	d.	s.	d.	s.	d.
Adult Males								
Bakers—								
Journeymen	55	0	115	0	148	0	161	4
Labourers	48	0	95	0	127	0	138	8
Butchers—								
First shopmen	72	6	123	2	165	0	177	11
Second shopmen	62	6	110	8	151	10	164	9
Butter-factory employees—Churning and buttermaking: General hands	45	0	90	0	135	0	142	6
Flourmilling—								
Kilmen	48	0	99	4	143	4	155	0
Assistant smuttermen	48	0	91	4	135	10	147	6
Rollermen	56	0	103	4	155	0	168	4
Meat freezing—								
Slaughtermen, per 100 sheep	27	6	45	0	70	0	73	6
General hands	54	0	113	8	148	4	155	0
Meat preserving—								
Boners	62	0	132	0	166	8	173	4
General hands	59	6	110	0	148	4	155	0
Sausage-casing making: General hands	58	8	117	4	155	0	161	8
Aerated water and cordial making—								
Cordialmakers	58	9	96	10	132	3	145	0
Bottle washers	45	0	88	3	125	9	138	7
Brewing labourers	47	7	94	5	143	3	148	0
Tailors—								
Journeymen	53	9	101	2	156	0	156	8
Stock cutters (factory)	55	0	92	6	147	6	154	4
Boat operatives	52	6	91	8	141	8	155	0
Woolen mills—								
Spinners	51	0	103	4	146	8	160	0
General hands	46	6	93	4	131	8	143	4
Building—								
Bricklayers	68	5	115	0	148	4	162	11
Carpenters and joiners	64	3	112	6	158	4	163	4
Plasterers	67	9	114	7	149	10	163	2
Plumbers (competent)	66	0	110	0	160	10	165	10
Builders' labourers	52	6	93	4	140	10	149	4
General labourers	52	6	93	4	127	1	136	9
Sawmilling—								
Engine drivers	54	0	110	0	157	11	164	7
Sawyers	53	0	112	6	161	3	167	11
Tailors-out	43	9	96	8	145	5	152	1
Yardmen, head	55	8	110	0	157	11	164	7

* Not available.

Occupation	Average Wage (Four Principal Districts) at 31 March							
	1914	1939	1949	1950	1951	1952	1953	
	s.	d.	s.	d.	s.	d.	s.	d.
General hands	51	0	95	0	142	1	148	9
Boatbuilding: Shipwrights	62	8	126	6	158	11	167	3
Metal works, etc.—								
Boilermakers, journeymen	62	8	110	0	151	8	156	8
Iron and brass moulders	64	7	110	0	145	0	159	2
Tinsmiths, journeymen	62	8	110	0	146	3	156	8
Engineering fitters, etc.	64	7	110	0	148	8	162	6
Electrical workers	61	10	110	5	154	2	163	4
Motor mechanics	64	8	110	0	143	4	156	8
Printing—								
Linotype (day)	74	0	115	0	154	2	164	2
Letterpress machinist (day)	65	0	107	6	146	8	156	8
Skin and leather workers—								
Curriers	58	0	105	0	146	8	154	2
General hands	49	6	90	0	128	4	136	8
Mineral and stone workers—								
Brickmakers	53	11	108	4	145	8	154	10
General hands	46	9	95	0	130	8	140	3
Mining (coal)—								
Surface—								
Tipplers	53	7	91	2	137	11	147	9
Labourers	54	3	87	8	137	11	147	9
Miners (on day wages, per shift)	11	4	20	10	33	0	35	6
Truckers	55	11	97	6	152	6	165	0
Quarrymen	52	8	94	2	130	5	143	11
Agricultural and pastoral workers—								
General farm hands	26	4	45	0	95	0	106	6
Threshing mill hands, per hour	1	3	2	8	3	7	3	10
Ploughmen	30	4	46	3	95	0	106	6
Sheepers (per 100 sheep shorn)	20	0	28	6	45	6	46	6
Shepherds	31	2	52	6	95	0	106	6
Wood pressers	30	0	84	6	163	2	166	10
Dairy-farm hands	23	0	52	6	113	0	126	6
Railways—								
Engine drivers, average third and sixth years	75	0	120	0	162	6	167	6
Firemen, average second and ninth years	60	0	102	11	150	0	153	4
Guards, average first and third years	63	0	113	9	157	1	161	3
Tramways—								
Motomen	53	6	101	3	143	4	155	0
Conductors	47	7	95	7	136	8	148	4
Shipping and cargo working—								
Assistant stewards, first grade	25	8	72	4	135	11	149	11
Assistant stewards, second grade	18	8	70	0	133	0	144	8
Chief cooks	60	8	106	10	172	1	185	6
Second cooks	37	4	88	2	152	3	165	8
Able seamen	37	4	89	1	148	2	160	0
Ordinary seamen, first class	28	0	60	10	115	6	124	11
Waterside workers—								
Ordinary cargo	62	4	106	8	155	0	160	0
Hotel workers—								
Chefs	90	0	112	0	150	0	154	9
Waiters	31	1	65	0	100	0	104	4
Miscellaneous—								
Softgoods assistants	55	0	102	6	144	1	157	7
Grocers' assistants	50	0	102	6	144	0	150	5
Warehouse storemen	48	9	90	0	135	6	145	0
	Adult Females							
Biscuit and confectionery factory workers	20	0	49	0	84	0	94	0
Tailresses (factory): Journey-women	27	6	50	0	91	0	97	0
Boat operatives	27	6	50	10	86	0	96	0
Woolen mill workers	25	0	50	0	85	10	96	8
Hotel workers—								
Cooks	29	5	58	0	98	0	103	8
Housemaids	17	2	36	6	66	0	71	4
Waitresses	22	5	36	6	66	0	71	4
Restaurant workers—								
Cooks	42	6	87	0	122	6	127	6
Waitresses	31	1	48	6	82	6	87	6
Pantriesmaids (competent)	29	2	48	6	82	6	87	6
Printing workers	"	"	58	6	82	10	91	0
Softgoods assistants	27	6	57	6	95	0	105	0
	Juvenile Males							
Bakers' apprentice: After three years' service	27	6	65	0	96	2	104	10
Butchers' assistant: Eighteen years of age	30	10	49	5	72	6	80	0
Butter and cheese factory: Youth, eighteen years of age	30	0	52	6	87	5	91	6
Flour mill: Youth, after three years' service	27	0	50	0	73	6	81	0
Meat freezing and preserving: Youth, eighteen years of age	25	6	55	0	77	0	82	6

* Not available.

Occupation	Average Wage (Four Principal Districts) at 31 March													
	1914		1919		1949		1950		1951		1952		1953	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Aerated water and cordial manufacture: Youth, eighteen years of age	25	0	46	7	66	0	72	5	87	7	87	7	90	7
Tailoring, etc.: Apprentice, after three years' service	19	2	40	0	87	0	91	1	109	9	109	9	118	0
Boot and shoe factory: Apprentice, after three years' service	25	0	40	0	83	7	91	5	105	2	109	9	118	0
Woolen-mill: Youth, eighteen years of age	22	6	46	8	75	10	85	0	107	4	107	4	113	4
Bricklayers' apprentice: After three years' service	24	2	42	6	91	2	96	8	112	0	117	7	126	9
Carpenters' apprentice: After three years' service	24	6	43	2	89	6	99	1	116	5	116	5	124	8
Plasterers' apprentice: After three years' service	24	0	42	6	87	6	96	11	114	2	116	2	124	2
Plumbers' apprentice: After three years' service	19	5	40	0	92	5	97	10	118	1	118	1	126	5
Sawmill: Youth, eighteen years of age	25	6	48	9	69	8	74	0	90	10	90	10	98	9
Engineering: Apprentice, after three years' service	20	0	50	0	86	6	99	10	114	5	114	5	123	0
Brick, tile, etc., works: Youth, eighteen years of age	21	0	53	5	72	0	76	10	90	8	91	7	96	10
Tannery: Youth, eighteen years of age	33	4	51	3	71	6	75	6	86	10	98	4	98	3
Coal-mining: Trucker, eighteen years of age	46	5	82	9	129	7	142	1	163	4	163	4	166	8
Agriculture and dairying: Youth, eighteen years of age	*		31	0	68	0	77	3	88	11	91	8	103	
Softgoods assistant: After three years' service	20	0	45	0	72	9	93	0	106	11	110	2	114	2
Grocers' assistant: After three years' service	25	0	42	6	83	2	89	8	103	1	106	4	112	6
<i>Juvenile Females</i>														
Biscuit and confectionery factory: Assistant, after three years' service	16	0	41	6	64	10	74	10	86	1	97	7	100	5
Boot and shoe factory: Assistant, after three years' service	19	0	40	0	62	6	71	0	81	8	86	10	89	0
Woolen-mill: Worker, after three years' service	22	6	41	0	70	0	80	0	97	9	97	9	102	0
Clothing factory: Improver, after three years' service	19	2	43	0	74	6	79	0	96	7	96	7	100	0
Printing trade: Worker, after three years' service	*		44	6	73	0	79	0	90	10	94	10	100	0

* Not available.

NOTE.—The following perquisites (as assessed for statistical purposes) as at 31 March 1953 should be added to the listed occupations: general farm hands, ploughmen, shepherds, dairy-farm hands, and youths (eighteen years of age) employed on agricultural and dairy farms, 30s. per week for board and lodging; shearers and wool pressers, 7s. per day for rations; assistant stewards (first and second grade), chief and second cooks, able seamen and ordinary seamen (first class), 41s. 10d. per week as value of board and lodging; and hotel chefs and waiters, female cooks, housemaids, and waitresses, 38s. per week as value of board and lodging. Varying amounts in this connection would also be added to the occupations affected for earlier years.

AGGREGATE WEEKLY WAGE PAYMENT IN INDUSTRY.—The following data, showing the average weekly wage pay-out in industry and relating to October 1953, have largely been extracted from the half-yearly survey conducted by the Department of Labour and Employment.

Industrial Group	Pay-roll Strength Males and Females Combined (Including Juveniles and Salaried Executives)	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)			
		Aggregate*		Average Per Person*	
		£	s.	s.	d.
Forestry, logging, mining, and quarrying—					
Forestry	2,273	23,453	10	6	4
Logging	2,369	32,187	13	11	9
Coalmining	4,920	69,070	14	0	9
Other mining	342	4,648	13	11	10
Quarrying (n.e.i.)	920	11,212	12	3	9
Totals	10,824	140,570	12	19	9
Seasonal manufacturing—					
Meat processing, etc.	10,141	127,101	12	10	8
Fruit and vegetable preserving	1,076	10,462	9	14	6
Dairy factories	5,122	67,520	13	3	8
Totals	16,339	205,083	12	11	0
Food, drink, and tobacco (other than seasonal)—					
Grain milling	818	9,415	11	10	2
Bread bakeries	2,358	27,448	11	12	10
Biscuit making	1,089	9,743	8	18	11
Cake and pastry making	1,575	13,951	8	17	2
Sugar and confectionery	2,476	24,560	9	18	5
Other food	1,463	14,688	10	0	10
Beverages	2,742	33,970	12	7	9
Tobacco manufacture	1,558	12,447	9	3	4
Totals	13,879	146,222	10	10	9
Textiles, clothing, and leather—					
Tanneries	1,314	15,902	12	2	0
Fur dressing and manufacture	365	3,369	9	4	7
Leather goods	900	8,171	9	1	7
Knitted wear and hosiery	3,377	31,283	9	5	3
Flax, rope, and twine	503	5,576	11	1	9
Woolen mills	2,982	29,608	9	18	7
Other textile production	1,232	14,846	12	1	0
Clothing manufacture	17,617	136,848	7	15	4
Footwear manufacture	4,881	47,185	9	13	4
Footwear repair	237	2,280	9	12	5
Other textile articles	1,200	11,704	9	15	1
Totals	34,608	306,772	8	17	3
Building materials and furnishings—					
Sawmilling, plywoods, etc.	8,263	97,626	11	16	4
Builders' woodwork	4,181	48,052	11	9	10
Furniture and cabinets	4,134	41,863	10	2	6
Other wood manufacture	1,393	14,697	10	11	0
Brick, tile, and stoneware	1,269	16,603	13	1	8
Pottery and glass	1,630	18,599	11	8	3
Lime, cement, etc.	4,516	57,497	12	14	8
Totals	25,386	294,937	11	12	4
Engineering and metalworking—					
Engineering and machinery	18,798	229,198	12	3	10

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

Industrial Group	Pay-roll Strength Males and Females Combined (Including Juveniles and Salaried Executives)	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)			
		Aggregate*		Average Per Person*	
		£	s.	s.	d.
Forestry, logging, mining, and quarrying—					
Electrical manufacture	4,956	52,860	10	13	4
Ships, locomotives, etc.	7,097	77,287	10	17	10
Vehicle and cycle manufacture	4,482	57,950	12	14	7
Vehicle repair and aircraft	15,568	169,564	10	12	5
Totals	51,301	585,959	11	8	5

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

Industrial Group	Pay-roll Strength Males and Females Combined (Including Juveniles and Salaried Executives)	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)			
		Aggregate*		Average Per Person*	
		£	s.	s.	d.
Miscellaneous manufacturing—					
Chemicals and by-products	5,296	61,735	11	13	2
Rubber manufacture	2,471	30,628	12	7	11
Paper and paper products	2,475	28,365	11	9	3
Printing, publishing, and allied	8,870	102,930	11	12	1
Instruments, clocks, jewellery	1,040	9,980	9	11	11
Other manufacturing (n.e.i.)	1,848	18,033	9	15	2
Totals	22,000	251,671	11	8	10
Totals, manufacturing industries	163,513	1,790,644	10	19	0
Power, water, and sanitary services	11,504	138,343	12	0	6
Building and construction	43,262	542,928	12	11	0
Transport and communication—					
Rail transport	19,718	260,905	13	4	8
Road transport	13,927	172,882	12	8	3
Water transport (not waterfront)	4,547	59,834	13	3	2
Air transport	1,536	20,864	13	11	8
Rates and telegraph	18,631	199,006	10	13	8
Totals	58,359	713,491	12	4	6
Distribution and finance—					
Wholesale and retail trade	77,210	780,566	10	2	2
Storage	469	5,777	12	6	4
Finance	9,446	108,099	11	8	11
Insurance	4,978	58,020	11	13	1
Real estate	1,279	14,077	11	0	2
Totals	93,382	966,539	10	7	0
Wool and grain stores (seasonal)	1,715	17,080	9	19	2
Totals (including wool and grain stores)	95,097	983,619	10	6	10
Domestic and personal services—					
Provision of lodging, food, etc.	13,854	127,161	9	3	7
Portrait and photo studios	801	6,752	8	8	7
Laundries, cleaning, etc.	3,335	32,286	9	13	9
Barbers, beauty shops, etc.	1,456	10,212	7	0	3
Recreation, sports, etc.	4,483	52,828	11	15	9
Undertaking, etc.	354	4,155	11	14	9
Totals	24,280	233,394	9	12	3
Administration and professional—					
Hospitals	21,488	197,399	9	3	9
Medical and allied services	2,066	18,775	9	1	9
Education and instruction	23,085	273,716	11	17	2
Arts, sciences, and religion	1,202	13,374	11	2	6
Government services (n.e.i.)	16,734	200,454	11	19	7
Local authorities (n.e.i.)	7,751	88,810	11	9	2
Miscellaneous services and agencies	8,101	74,342	9	3	6
Totals	80,427	866,870	10	15	7
Grand totals, all industries (including seasonal)	487,266	5,409,859	11	2	1

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

The next table shows a comparison over a period of years of the grand totals, all industries surveyed, together with nominal minimum weekly wages for adult males prescribed in awards and industrial agreements at the end of the preceding month.

Year	Pay-roll Strength, Males and Females Combined	Weekly Wage Payout (Including Overtime, Bonus Earnings, etc.)				Nominal Minimum Weekly Wage For Adult Males as Prescribed in Awards and Industrial Agreements as at End of Preceding Month			
		Aggregate		Average Per Person		£		s.	
		£	s.	s.	d.	£	s.	s.	d.
October									
1946	411,583	2,640,617	6	8	4	6		7	6
1947	427,348	2,971,469	6	19	1	6			10
1948	438,480	3,239,908	7	7	9	7		0	2
1949	450,104	3,632,663	8	1	5	7		12	3
1950	457,028	4,016,485	8	15	9	8		0	10
1951	465,728	4,729,159	10	3	1	9		3	11
1952	474,316	5,050,689	10	13	0	9		14	6
1953	487,266	5,409,859*	11	2	1*	10		14	9

* Does not include retrospective payments arising from the general order of the Court of Arbitration of 19 November 1953.

HOURS OF LABOUR.—The following table shows index numbers of the number of hours constituting a full week's work in the various industrial groups for 1914, 1939, and for each year from 1945 to 1953. Where years are combined in the heading, the figures for each separate year are identical. The material from which the index numbers have been compiled has been taken from the awards of the Court of Arbitration in most cases; but where hours were not prescribed in the awards, reference was made to the Factories Act and the Shops and Offices Act. It has been necessary to omit the agricultural and pastoral workers group from these computations, since, with certain exceptions (and those only in recent years), hours of farm labour are not fixed. For each sex the base is the New Zealand weighted average for all industrial groups combined, 1926-30 (= 1000).

INDEX NUMBERS OF AVERAGE HOURS OF LABOUR

Base: All groups combined, each sex separately, 1926-30 (= 1000)

Industrial Group	1914	1930	1946	1946	1947	1948	1949 to 1953
Provision of—							
							<i>Adult Males</i>
Food and drink	1135	944	919	866	866	866	866
Clothing, footwear, and textiles	1000	888	884	866	866	866	866
Building and construction	988	866	866	866	866	866	866
Power, heat, and light	1061	870	870	866	866	866	866
Transport by water	1093	911	911	909	880	880	880
Transport by land	1044	905	905	901	866	866	866
Accommodation, meals, and personal service	1325	891	890	875	866	866	866
Working in or on—							
Wood, wicker, seagrass, etc.	993	866	866	866	866	866	866
Metal	1008	866	866	866	866	866	866
Stone, clay, glass, and chemicals	1026	872	870	866	866	866	866
Paper, printing, etc.	948	866	866	866	866	866	866
Skins, leather, etc.	1039	901	903	866	866	866	866
Mines and quarries	981	866	866	866	866	832	799
All groups combined	1041	888	885	877	867	866	864

Industrial Group	1914	1939	1945	1946	1947	1948	1949 to 1953
Provision of—							
							<i>Adult Females</i>
Food and drink	976	867	867	867	867	867	867
Clothing, footwear, and textiles	1006	901	899	867	867	867	867
Accommodation, meals, and personal service	1217	891	891	877	867	867	867
Working in paper, printing, etc.	976	867	867	867	867	867	867
All groups combined	1054	896	894	870	867	867	867

NOTE.—The index numbers in each section of the above table are comparable both vertically and horizontally.

The Industrial Conciliation and Arbitration Amendment Act 1936 contained, *inter alia*, provisions aimed at the establishment of a forty-hour week, without reduction in the weekly wage rate. New awards were to contain a provision to this effect, except that the Court might fix longer hours, but required to state its reasons for so doing. Awards in existence at the time the amendment was passed could be reviewed on application of the unions concerned with a view to the fixing of a forty-hour week. The Factories Amendment Act 1936 required the fixing of a forty-hour week in factories, but made provision for the Court of Arbitration to grant exemptions on application, but the exemption provision was repealed by the Factories Amendment Act 1945. The Shops and Offices Amendment Act 1936 reduced the working hours in shops from forty-eight to forty-four per week, and a further reduction to forty hours was made by later amendments passed in 1945 and 1946. With one or two exceptions, there was little or no change in the indices between 1938 and 1944, but with the operation of the Factories Amendment Act 1945 and the Shops and Offices Amendment Acts of 1945 and 1946 a slight decrease was recorded in 1945, followed by a more substantial one in 1946. The effect of the Shipping and Seamen Amendment Act 1946, which reduced seamen's hours to forty per week, is apparent in the 1947 figures. Employees in wood and coal yards, motor and horse drivers, and restaurant workers also obtained a forty-hour week in the same year. From 5 April 1948 a seven-hour day was, by decision of the Coal Mines Council, introduced for all underground workers in coal mines. By section 6 of the Mining Amendment Act 1948 this provision was extended as from 1 January 1949 to underground workers in other mines.

SUMMARY OF INDEX NUMBERS.—The following table gives a summary for the years 1942–52 of the movements in index numbers covering both wage rates and hours of labour.

WEEKLY WAGE-RATES, HOURLY WAGE-RATES, AND HOURS OF LABOUR: ALL INDUSTRIAL GROUPS COMBINED

Base: 1926–30 (= 1000)

Year	Nominal Weekly Wage Rates			Hours of Labour					
	Adults			Hourly* Wage Rates: Males, Adult					
	Males	Females	Combined	Juvéniles		Males	Females		
1942	1222	1234	1224		1302	1468	1381	888	896
1943	1261	1292	1265		1355	1504	1414	888	896
1944	1274	1297	1277		1379	1504	1429	888	896
1945	1381	1459	1397		1653	1693	1536	885	894
1946	1434	1533	1446		1819	1824	1586	877	870
1947	1489	1614	1503		1949	1966	1659	867	867
1948	1588	1764	1607		2108	2171	1752	866	867
1949	1678	1906	1702		2258	2338	1858	864	867
1950	1793	2054	1821		2462	2565	1976	864	867
1951	2039	2309	2068		2761	2924	2245	864	867
1952	2143	2408	2171		2911	3019	2336	864	867

* Excluding the agricultural and pastoral group.

HOURS OF WORK AND TRAVELLING TIME.—A questionnaire on the number of hours worked (including overtime) per week, and on the amount of time spent in travelling from home to place of employment (one way only), appeared on a census schedule for the first time in New Zealand at the census of 1945. The demand for increased production and the shortage of labour due to war conditions were no doubt responsible for the very long hours worked by a large number of people. Of those recording their hours of work, 18 per cent of males and 5 per cent of females worked sixty hours or more per week. The following is a summary giving the hours worked by all people actively engaged in industry.

Hours Worked	Males	Females	Total
Nil (unemployed) ¹	5,823	1,090	6,913
20–24	1,601	2,325	3,926
25–29	1,726	4,542	6,268
30–34	3,163	4,906	8,069
35–39	12,516	18,729	31,245
40–44	206,717	82,616	289,333
45–49	55,478	16,211	71,689
50–54	28,389	4,860	33,249
55–59	8,115	1,541	9,656
60–64	23,020	3,036	26,056
65–69	3,867	432	4,299
70–74	16,067	1,696	17,763
75–79	3,289	279	3,568
80–84	14,267	1,260	15,527
85–89	723	80	803
90 and over	6,728	764	7,492
Not applicable	40,587	4,054	44,641
Not specified	40,269	14,618	54,887
Totals	472,345	163,039	635,384

¹ Includes ex-servicemen who had not then returned to work.

In addition to the above, a number of people classified with the non-working population indicated that they were engaged on part-time work—i.e., less than twenty hours per week. A brief summary of such cases is now given.

Hours Worked	Males	Females	Total
--------------	-------	---------	-------

Hours Worked	Males	Females	Total
1–4	31	70	101
5–9	135	212	347
10–14	189	417	606
15–19	164	435	599
Totals	519	1,134	653

The following table is of interest in that it affords for the first time some indication of the usual time occupied in travelling from home to place of employment (one way only). The daily aggregate (i.e., double the times quoted therein, to allow for return to place of residence) is considerable and reflects the growth of urbanization in New Zealand.

Travelling Time (Minutes)	1945 Census		
	Males	Females	Total
Nil	149,717	38,583	188,300
1–5 inclusive	36,881	13,257	50,138
6–10 inclusive	47,574	21,013	68,587
11–15 inclusive	49,304	22,234	71,538
16–20 inclusive	37,786	17,923	55,709
21–25 inclusive	11,946	6,022	17,968
26–30 inclusive	46,288	18,040	64,328
31–35 inclusive	6,917	2,872	9,789
36–40 inclusive	7,852	3,074	10,926
41–45 inclusive	12,991	4,875	17,866
46–50 inclusive	2,997	1,033	4,030
51–55 inclusive	723	273	996
56–60 inclusive	10,100	2,760	12,860
61–65 inclusive	476	106	582
66–70 inclusive	609	186	795
71–75 inclusive	1,088	323	1,411
76–80 inclusive	467	140	607
81–85 inclusive	64	27	91
86–90 inclusive	1,359	257	1,616
91–95 inclusive	33	9	42
96 and over	776	96	872
Not applicable	5,823	1,090	6,913
Not specified	40,574	8,846	49,420
Totals, actively engaged	472,345	163,039	635,384
Totals, not actively engaged	310,257	67,913	378,170
Grand totals	782,602	230,952	1,013,554

Chapter 38. SECTION 38—LABOUR LAWS AND ALLIED LEGISLATION

Table of Contents

[38 A—HISTORICAL INTRODUCTION](#)

[38 B—WORKING CONDITIONS](#)

[38 C—WAGES AND WAGE-RATE LEGISLATION: STABILIZATION](#)

[38 D—LABOUR DISPUTES LEGISLATION](#)

[38 E—APPRENTICESHIP AND TRADES CERTIFICATION LEGISLATION](#)

[38 F—WORKERS' COMPENSATION, EMPLOYMENT AND UNEMPLOYMENT LEGISLATION](#)

[38 G—HOUSING AND TENANCY LEGISLATION](#)

38 A—HISTORICAL INTRODUCTION

HISTORICAL INTRODUCTION.—In 1858 the New Zealand Parliament enacted that the laws of England as existing on 14 January 1840 should, as far as applicable, be deemed to apply in New Zealand also. But in what was an essentially agricultural and pioneer country conditions demanding labour legislation were not present, so that there was but little early progress in labour legislation. Initially, labour administration was interpreted in the light of English statutes, but such interpretations were largely ineffective, owing to the vast difference between English and New Zealand conditions.

One industry, however, was as important to New Zealand as to the British Isles—the shipping industry. In 1854 Britain passed a consolidating Merchant Shipping Act which contained numerous safety clauses and included a series of regulations aimed at the well-being of the crew, such as a wage-paying code and provisions as to seamen's accommodation, diet, and medical comfort. In 1854 New Zealand Parliament extended these regulations of the working conditions of seamen to all British ships under the jurisdiction of New Zealand. A series of Merchant Shipping Acts Adoption Acts was passed in 1869, 1873, and 1874, taking over certain provisions of the British Merchant Shipping Acts of 1862, 1872, and 1873, while other Acts followed in 1877, 1885, and 1890.

Apart from the regulation of working conditions on board ship, early New Zealand social legislation concerned itself mainly with such general social problems as the care of orphans and the encouragement of thrift by means of suitable institutions. The Master and Apprentices Act of 1865 and the apprentice protection sections of the Offences against the Person Act of 1867 regulated the apprenticeship of young persons to farmers and tradesmen, stipulating that they were to be provided with food, clothing, bedding, and a moral education. These provisions were apparently intended to safeguard the training and interests of destitute children. In 1856 a law was passed to facilitate the formation of friendly societies in New Zealand, and the establishment of savings banks was to be stimulated by an Act of 1858. The Act providing for the establishment of the Post Office Savings Bank was passed seven years later. A Distress and Replevin Act (1868) regulated the conditions under which goods and chattels might be seized as a distress for arrears of rent.

Trade-unions legislation commenced with the Trade Unions Act passed in 1878, affording unions protection from prosecution for conspiracy by reason merely that their purposes were in restraint of trade. The Inspection of Machinery Act 1882 provided for the inspection of machinery in factories, etc., and required that persons in charge of boilers be properly qualified. An Employers' Liability Act was passed in 1882, legislating in the matter of industrial accidents with the effect of mitigating the consequences to the worker without recourse to expensive litigation at common law.

Legislation specifically governing the conditions of employment of women and girls—particularly in respect of hours of labour—was introduced in 1873, there being several amendments to the Act in later years, while the legislation was amended and consolidated in 1881. Regulation of the hours of labour of children was also provided for. With the existence of slump conditions in the "eighties" allegations of "sweating" arose, and, since such complaints became increasingly numerous, a Commission was set up in 1889 to inquire into this evil. The Commission found that the employment of Females Act was ineffective owing to the lack of the necessary powers of enforcement. The Commission declared that actual "sweating" conditions were not present, though a minority report differed from this view, but pointed out that with increasing industrialization such conditions would rapidly become prevalent if no attempt were made to check them. The Commission made recommendations for future labour legislation, and as the result of its findings the Factories Act of 1889 was passed.

Depression, discontent, and a growing labour force—despite depression, the number of hands employed in factories increased by approximately 16½ per cent between 1885 and 1890—formed an economic background favourable to social legislation. Meanwhile the maritime strike of 1890, which caused even further distress throughout the country, proved to the trade unions that they were not sufficiently strong to obtain their demands by direct action, and diverted their activities to the political field. The strike also aroused public opinion to the necessity for preventing such industrial strife. Political opportunity was still further opened by Sir George Grey, who in 1889 obtained parliamentary approval for the abolition of the last remnant of plural voting at the elections to the House of Representatives. The extension of the franchise to women followed four years later.

In January 1891 a Liberal Government came into power under the leadership of Ballance, with Reeves (Labour) and Seddon (Public Works) in the portfolios directly concerned with labour matters. The economic and political background demanded social change, and the change came to such a degree that New Zealand—still in the pioneer stage of economic development—acquired world fame as the land of advanced social legislation. The labour code enacted in the "nineties" was not so much socialistic as a correction of the more manifest injustices of an individualist system. There was not so much State control as an improved framework within which *laissez faire* could operate. This policy was most clearly seen in the realms of housing and farming, in which the Government aimed at making it easier for the worker to build or to settle on land by the provision of finance through the State Advances Department (established in 1894). The Family Homes Protection Act 2895 provided protection for homes from the legal processes resulting from bankruptcy proceedings, etc. The only encroachment on *laissez faire* principles was the fostering of co-operation on public works from 1891 onwards.

Working conditions were improved by legislative regulation in four types of industry (factory work, shipping, shops and offices, and coal mining), wages being also safeguarded though not directly increased.

The great achievement of this Administration, however, was the evolution of machinery—the Conciliation Councils, the Court of Arbitration, and the Labour Department—which not only administered the labour code efficiently, but could also modify it rapidly to suit the changing economic background. This dynamic machinery was far more effective than the tall oak sunniganet improvements by the more normal procedure of static legislative enactment. An adjustable labour code was of special advantage to a primary-produce exporting country which is, of all countries, most open to the fluctuations of economic progress, and it is another example of the British empiricism that delights in suiting action to the conditions of the moment.

This code, and the resulting constant political intervention in labour conditions, profoundly modified labour organization. Since resort to judicial rather than to militant action became the accepted means of settling industrial disputes, much of the bitterness usually associated with the struggle for improved wages and working conditions was lost. Moreover, the close association with the Courts led to the growth of a strong political bias in the aims of unionism. This was by no means natural, for, since the legislative code ensured to the workers many benefits for which they would otherwise have had to fight keenly, it was felt that the further amelioration of living conditions would best be attained by legislation rather than by direct action.

Subsequent progress has been determined largely by this code, although the swing visible in the development of English labour legislation from Salisbury's Factory Acts to Lloyd George's pension schemes—from concrete intervention in working conditions to attempts at ensuring a more equitable distribution of the national income—is also evident in New Zealand. For example, the rate of age benefit (formerly old-age pension) has been increased considerably—from £18 per annum (1898), to £45 (1925), to £52 (1936), to £58 (1940), to £78 (April 1939), and, by increases at intervals during the war and post-war years, to its present (£194) figure of £175 (1946). Again, although interrupted to some extent during the war years by the needs of a war economy, much progress has been achieved in connection with the Government's housing scheme (commenced in March 1937) of erecting homes of a good standard, which are let to tenants at a reasonable rental.

Prior to the passing of the Social Security Act 1938 (see Section 7A) the initial pre-eminence of New Zealand in respect of social legislation generally, had been largely lost. Hitherto the only governmental provision towards sickness insurance was the National Provident Fund established in 1911. This scheme is a voluntary one. State aid being in the direction of administration, together with a subsidy. The Social Security Act is much wider in scope than similar legislation in most other countries; but it is worthy of note that compulsory health insurance, operative in New Zealand only from 1 April 1939, was in operation for many years in several other countries—e.g., Germany (1883), Great Britain (1911).

National provision for the relief of unemployment did not become law in this country until 1930, whereas in Great Britain legislation dealing with this subject has been in force since 1911. The earliest legislative action specifically focused on unemployment-insurance matters was taken, as far as can be ascertained, in Denmark in the year 1907. Other countries in which the years of initiation of unemployment insurance were antecedent to that of New Zealand were: Austria, 1920; Queensland (Australia), 1922; Italy, 1923; and Germany, 1924.

A Workers' Compensation Amendment Act was passed in October 1936 liberalizing the scale, of payments in respect of accidents. The Social Security Act has rectified the pre-existing deficiencies in New Zealand legislation in regard to medical benefits and unemployment, as compared with the position in other countries.

Up to 1936 progress in other spheres was limited to technical improvements on the original Ballance-Seddon code, except perhaps in the case of the fluctuating fortunes of the Court of Arbitration. During the twenty-six years of proceeding from 1895 to 1923 (there was but a slight setback in 1909–10) the scope of the Court's awards and industrial agreements was gradually expanded, the most important step being the power conferred in 1898 of prescribing minimum rates of wages. Whereas the Court was originally more concerned with conditions of work, and has since been with wages, there has been a gradual transformation, till in recent years the attention of the Court has been mainly focused on the wages question. As the Court is progressive, and at least not static, its influence expanded at the cost of statutory measures, such as Factories Acts, which, in practice, became a dead letter as affecting workers under the jurisdiction of the Court. During the depressed years following 1921 wages were reduced, to the dissatisfaction of the workers, yet not fast enough for employers, so that the value of the Court was increasingly questioned till a National Industrial Conference was summoned in 1928 to discuss, *inter alia*, compulsory arbitration. In the boom years between 1927 and 1930 no action was taken; but in 1932, under stress of depressed conditions, amendments were made to the Act which, in effect abolished the system of compulsory arbitration. The Industrial Conciliation and Arbitration Amendment Act 1936 restored the full powers of the Court.

Though no great inroads have been made on the wages system, there has been definite governmental and legislative encouragement of co-operation. In 1891 much public-works construction, such as road and railway formation, was first organized on this principle. The plant, employees, etc., were supplied by the men by the State at cost price or on low hire terms. A modified form of the system then adopted is still followed, and its scope was increased in 1936. Similarly, the Compulsory Empowering Act, 1922, the provisions of which were embodied in the Companies Act 1933, attempted to encourage the practice of profit-sharing among workers. Any company registered under the Companies Act is empowered to issue to its employees labour shares, which are not transferable, have no nominal value, and do not form part of the ordinary capital of the company. Except as otherwise provided, these shares entitle the holders to the same privileges as the ordinary shareholders. In the event of an employee leaving his employment or dying, the shares must be surrendered in cash or in capital shares to him or to his heirs. Another Act in the early 'twenties' aimed at fostering co-operation among farmers, but it became, in practice, a dead-letter.

There was in the original labour code a definite policy of ensuring greater opportunities for the masses by financing farming and house-building projects through the State Advances Department. This provision of easy credit to put workers on the land was the rural aspect of the labour code, for, apart from some provision for the inspection of housing, there were no other measures designed for the agricultural labourer. Even the Court of Arbitration in 1906, 1919, and 1925 refused to make any award covering permanent farm labour. Full provision for the application of standard rates of wages, etc., to farm workers was made in 1936 (see Agricultural Workers Act, later). The policy of social lending survived the years of prosperity, and was employed to cope with part of the rehabilitation necessitated by the First World War; but the policy was reverted a little later, and the Rural Advances Act of 1926 was a definite attempt to put State Advances loans on a more economic basis, eliminating much of the social background. This tendency was completed by the creation of the Mortgage Corporation in 1935, which definitely marked the substitution of social to economic ends. The agricultural loans of up to 95 per cent of their security were both eliminated, in theory at least. At the same time loans for housing were reintroduced for Maoris late in 1935, and further activity in this sphere was foreshadowed by the Housing Survey Act of 1935. The Government was also empowered to lend to farmers, through the Lands Department, by the Dairy Industry (Emergency Powers) Act of the same year.

The State Advances Corporation Act 1936 marked a definite reversal of the previous Government's policy in regard to State Advances loans. The Mortgage Corporation was abolished, its powers having been taken over by the State Advances Corporation, while the general purpose of the 1936 Act was definitely in the direction of a liberalization of the lending policy of the State.

During the depression period there was a cessation of the move towards better working conditions; and, on the grounds of economic circumstances and the danger of inconveniencing still further already bankrupt employers, the various inspection duties that usually preserve the labour code were curtailed. The rates of pensions and of public servants' salaries and wages were reduced, while award rates of wages were also compulsorily reduced. At the same time heavy unemployment liabilities were undertaken and immigration control was made more rigid. Steps were also taken to reduce farmers' mortgage liabilities and to maintain farmers on their land.

In no case do the provisions laid down by any particular labour law cancel the worker's rights at common law; but since, naturally enough, better conditions are laid down by statute than the worker is entitled to at common law, it is unusual to find in these days litigation under the common law affecting master and servant. It sometimes happens, however, notably in workers' compensation cases, that appeal is made at common law instead of under the Act, there being no statutory limits to the damages which may be obtained at common law. Since, with the exception of such of the labour statutes as are of general application, no labour legislation exists as yet affecting certain classes or workers—e.g., domestic servants—their relations with their employers are still governed mainly by the common law affecting master and servant.

New Zealand has been relatively backward in protection for permanent farm labour, for while seasonal labour was in general covered—awards existing both for shearers, musters, and shed hands and for threshing-mill workers—the Court of Arbitration has made no awards in respect of permanent farm hands. In general, conditions of work on farms were not covered by any specific legislation—except as regards inspection of housing accommodation—until in 1936, the Agricultural Workers Act was passed, containing definite provision as to wages of dairy-farm workers (extended later to cover other classes of farm workers) and better provision for the housing of agricultural workers generally. Similar legislation existed in many of the older countries for years past. Further improvement in the position of agricultural workers was made by the Share-milking Agreements Act 1937, which defined, *inter alia*, minimum percentages of the milking returns to be received by share-milkers.

The general trend of labour legislation since 1936 has been conditioned by two other major influences. The first of these was primarily economic in origin, legislation being necessary to cope with continuing and derived problems associated with the economic depression and subsequent recovery. The second, with its origin in the international political developments culminating in war during 1939, was responsible for a considerable volume of wartime and post-war legislation. The third element was of a more general nature, being the direct motivating force behind some major items of legislation and often indirectly influencing the content of other Acts and amendments passed during the various sessions. Briefly, it can be described as full acceptance of the principle that society, through its representative institutions, should take active steps towards the improvement of the working, living, and social circumstances of its individual members. The appropriate action in many instances has required legislative sanction to provide for either direct control or regulation by the Government.

As a point of possible interest, although not of particular relevance to labour legislation, it is possible to discern two other main lines of approach to law-making. One of these is due to the increasing participation by New Zealand in international affairs consequent on its enhanced national status and acceptance of responsibility in the wider issues of the present era. The other is domestic; it is concerned with the welfare and social development generally of both the rapidly growing Maori population and the inhabitants of New Zealand's island and trust territories.

The economic depression and subsequent recovery was substantially the background for the major labour measures listed below commencing from the 1936 session. In addition, extensive amendments to pre-existing labour laws were made by the Government towards the formulation of a more liberal code of social legislation. Provisions novel to New Zealand were also made with the same object in view—e.g., the Agricultural Workers Act, 1936, and the provision for the declaration of a basic wage contained in the 1936 amendment to the Industrial Conciliation and Arbitration Act. Acts dealing directly with labour questions were the Employment Promotion Act 1936, Industrial Conciliation and Arbitration Amendment Act of 1936, Factories Amendment Act 1936, Agricultural Workers Amendment Act 1936, Shops and Offices Amendment Act 1936, Coal Mines Amendment Acts 1936 and 1937, Workers' Compensation Amendment Act 1936, Mining Amendment Act 1937, Share-milking Agreements Act 1937, and the Wages Protection and Contractors' Liens Act 1939.

In addition to the Acts mentioned, provisions in several other Acts deal with matters which can properly be regarded as coming within the subject matter of this section. The following Acts, or provisions in Acts, may be referred to in this connection: Certain provisions in the Finance Act 1936 dealing with restoration of wages and salaries; Distress and Reprieve Amendment Act 1936; Fair Rents Act 1936; Family Allowances Amendment Act 1936; Pensions Amendment Acts 1936 and 1937; Prevention of Profiteering Act 1936; Mortgagees and Lessees Rehabilitation Act 1936; State Advances Corporation Act 1936; Iron and Steel Industry Act 1937, and the Petroleum Act 1937.

As previously mentioned, the war period was productive of much legislative activity of relevance to labour conditions. In some instances the object was essentially precautionary, while in others it was designed to cope with situations as these emerged or developed. Principal measures with some application to industrial conditions were the Industrial Conciliation and Arbitration Amendment Act 1939; Emergency Regulations Act 1939 and later amendments; War Pensions and Allowances (Mercantile Marine) Act 1940; Various provisions of the Finance Act (Nos. 2, 3, and 4) 1940; Rehabilitation Act 1941 and 1944 amendment; War Damage Act 1941 and 1942 amendment; Servicemen's Settlement and Land Sales Act 1943, and the War Pensions Act 1943 (consolidation and amendment).

More comprehensive legislation directly governing wartime labour activities was contained in the series of emergency regulations and amendments issued during 1939–45, including orders made under the authority of the latter. For further reference to the scope of the regulations listed below the reader should consult pages 625–629 of the 1946 Year-Book, wherein the subject matter is presented in greater detail.

The principal features of the war-inspired legislation are now briefly discussed. An essential over-all measure, the Labour Legislation (Emergency) Regulations 1940, gave the Minister of Labour power to modify or suspend, by order published in the Gazette, any provision of any voluntary agreement, or of any industrial agreement, or of any other voluntary agreement, in so far as they related to conditions of employment. The object of these regulations, intended to be temporary in nature, was to overcome the effects of the shortage of skilled workers in certain industries which were essential to the efficient prosecution of New Zealand's war effort. Provision was therefore made by these regulations and the various orders issued under their authority for the working of shifts, extending the number of hours that could be worked in any one week, and relaxing apprenticeship conditions, while in certain trades the basic-wage provision was modified to enable women workers over twenty-one years of age without previous experience to be employed.

The National Service (Emergency) Regulations 1940, which with amendments were reprinted in 1944, empowered the Minister of Industrial Man-power to declare any industry to be an essential industry. Special provisions applying with respect to employment in essential undertakings—for example, a person could not, in general, leave his employment or be dismissed or be permitted to give his services in any other undertaking without seven days' notice on either side and the permission of the District Man-power Officer first being obtained. Every employee in an essential industry was entitled to a minimum weekly payment equivalent to his ordinary weekly wage, subject to certain maxima specified by regulations. Other provisions defined offences under these regulations, protected employees called up for military service from dismissal, and prevented employment of deserters from the Armed Forces or military defectors, etc.

In addition to controlling those avenues in which industrial effort was expended, and its corollary entailing the direction of man-power, a third general feature was supervision over the field of transportation. The Waterfront Control Commission (Emergency) Regulations 1940 provided for a Waterfront Control Commission with very extensive powers, including the employment of labour, the prescription of terms and conditions of such employment, and rates of remuneration.

It was early realized that the effects of wartime shortages of supplies and of man-power would have repercussions on prices and wage rates. In an endeavour to minimize such movements and preserve a reasonable degree of stability in both these sectors of the economy, regulations were issued in 1939 and 1940 dealing with the control of prices and regulation of wage rates respectively. Further information on price control and the Control of Prices Act 1947 is given in Section 26 of this Year-Book. The Rates of Wages (Emergency) Regulations 1940 provided that the Court of Arbitration from time to time, on the application of any industrial union or association of workers, might amend by general order the provisions of all awards and industrial agreements in force in so far as they determined rates of remuneration.

These regulations were superseded by the Economic Stabilization (Emergency) Regulations 1942, providing for the stabilization of all rates of wages and remuneration at the levels ruling on 15 November 1942. These regulations were amended in 1944, 1945, and 1947.

Wartime legislation dealing with the stabilization of wages was in part placed on a permanent basis by virtue of the passing of the Economic Stabilization Act 1948. This Act revoked Parts II and V of the Economic Stabilization Act 1942 as given in Section 26 of this Year-Book. The Economic Stabilization Regulations 1942 provided that the Court of Arbitration from time to time, on the application of any industrial union or association of workers, might amend by general order the provisions of all awards and industrial agreements in force in so far as they determined rates of remuneration.

The Economic Stabilization (Emergency) Regulations 1942 were amended in several important respects in February 1949. The Economic Stabilization Regulations 1950, however, revoked and replaced the Economic Stabilization (Emergency) Regulations 1942 and amendments.

The 1950 regulations, as amended in May 1950, were themselves revoked and replaced by the Economic Stabilization Regulations 1952.

The 1952 regulations were in their turn revoked in May 1953 by the Economic Stabilization Regulations 1953, the current series.

A comprehensive review of the development of the Economic Stabilization (Emergency) Regulations and the later Economic Stabilization Regulations from 1942 to 1953 is given in Section 38C pages 941–945 of this issue.

Two other classes of legislation due to the impact of war on labour questions may be mentioned briefly. The first covers the reinstatement of employees after military service, the re-establishment in civil life of discharged servicemen, and the reconstruction of wartime industries on a peacetime basis. Legislation concerned with these aspects included the Occupational Re-establishment (Emergency) Regulations 1940 (now revoked and subject matter covered in the Military Training Act 1949) and the Rehabilitation Act 1941 and amendments. Further details of this and the Emergency Forces Rehabilitation Act 1953 are given in Section 9B of this issue.

The second class of legislation dealt with the necessity for definite rest periods for workers, particularly in view of the heavy demands for a very large section of them by a wartime economy. Early provisions for a minimum rest period were contained in the Industrial Rest Period (Emergency) Regulations 1943, later replaced by permanent legislation embodied in the Annual Holidays Act 1944. This Act provides for an annual holiday of two weeks' duration on full pay for all workers, whether permanently or casually employed, who are not otherwise catered for in this respect.

Reference has been made earlier to the fact that much New Zealand social legislation—particularly in recent years—is designed to mitigate the effects of inequalities in the distribution of incomes. Foremost in this category is the Social Security Act 1938, which at the same time introduced monetary benefits on an increased scale in substitution for pre-existing pension benefits and extended the specific tax provisions contained in pre-existing unemployment legislation to cover the wider social security benefits. A system of medical, hospital, and other related benefits was also inaugurated. In addition to the supersession of the various classes of pensions by monetary benefits of similar application, new classes of monetary benefits were begun, such as orphans' benefits, sickness benefits, emergency benefits, and the superannuation benefit. Further evidence of this trend is shown by a series of regulations extending the scope and character of social security benefits, and by the amending Acts of 1941, 1943, 1944, 1945 (which made family benefits universal from 1 April 1946), and later years increasing the amount payable for specified benefits. Related legislation includes the Social Security (Reciprocity with Australia) Act 1948, the War Pensions Act 1943, War Pensions and Allowances (Mercantile Marine) Act 1940, Family Benefits (Reciprocity with Great Britain) Act 1948, and a similar Reciprocity Act with Northern Ireland in the same year.

Several measures dating from 1936 are focused on the theme of compensation for injury or death. Amendments to the Workers' Compensation Act 1922 were passed in 1936, 1943, 1945, 1947, and 1949–53. The 1936 amendment made it compulsory for employers to insure against his liability under the Act, while by the 1947 amendment, under section 6, workers' compensation insurance became, with certain exceptions, a monopoly of the branch of the State Fire Insurance Office known as the State Accident Insurance Office as from 1 April 1949. Other provisions of the latter amendment related to accident prevention; occupational training of seriously disabled workers; an increase in the maximum amount of compensation payable in respect of death, incapacity, or permanent physical injury; accidents to the crew of a New Zealand aircraft; accidents to workers travelling to and from work; the provision of artificial limbs; and the conveyance of injured workers. Dependency is also to be determined as at the date of death of the worker. The 1949 to 1952 amendments increased the maximum amounts payable in respect of death or incapacity. The 1950 amendment restored the right of insurance companies to undertake as from 1 April 1951 employers' liability insurance. It also established the Workers' Compensation Board with the functions of recommending maximum rates of premiums and rates of commission for insurance agents, and administering the Workers' Compensation Account also set up by the amending Act, etc. The 1951 Amendment (No. 2) provided for compensation for incapacity lasting less than three days. The 1952 amendment provided for compensation for loss of earning power to be based on wages as varied from time to time—e.g., as a result of general orders, standard wage pronouncements, etc. The 1953 amendment, besides increasing maximum amounts payable, also provided that future changes in minimum or maximum amounts of compensation payable or in weekly payments are to be made by Order in Council. Compensation based on average weekly earnings is to be based on weekly earnings increased or reduced in accordance with movements in wages occurring during the period of payments. The Law Reform Act 1936 and the Statutes Amendment Act 1937 also contained clauses relating to the Deaths by Accidents Compensation Act 1908. Allied to this subject is the Contributory Negligence Act 1947, which provides for the improvement of damages where the person suffering damage has himself been guilty of contributory negligence.

A desire to approve still further working conditions is evident in the Coal Mines Amendment Acts of 1936, 1937, 1941, 1947, 1949, and 1953; the Mining Amendment Acts of 1937, 1941, 1947, 1948, and 1953; the Quarries Act 1944, and its 1951 amendment. These contained provisions towards the improvement of working conditions in mines or quarries. Somewhat similar provisions, for example, regarding hours of labour and safety and health provisions, are to be found in the Factories Act 1946 (a consolidation measure), the Shops and Offices Amendment Acts of 1936, 1945, 1946, and 1951, the Shipping and Seaman Amendment Acts 1946 and 1948, and the Scaffolding and Excavation Amendment Act 1951.

Further instances of the broader social emphasis in labour legislation occur in the Legal Aid Act 1939; the Wages Protection and Contractors' Liens Act 1939; the Distress and Reprieve Amendment Act 1936; the Destitute Persons Amendment Acts of 1951 and 1953; the Employment Act 1945, with its object of promoting and maintaining full employment at all times; the Minimum Wage Act 1945, providing for a minimum wage for all adult workers; and the Industrial Relations Act 1943, which authorized the appointment of the Industrial Advisory Council with functions of making recommendations for improving industrial relations and welfare, in particular on such schemes as incentive payments, profit sharing, safety and health of workers, provision of amenities, and the establishment of works committees and other employer-worker organizations. More extensive coverage of legislation concerned with safety provisions was accomplished with the passing of the Municipal Corporations Amendment Act 1938, the Bush Workers Act 1945, and the Scaffolding and Excavation Amendment Acts of 1948 and 1951, while the Dairy Industry Amendment Act 1938, the consolidating Dairy Industry Act 1952, the Meat Act 1939 and its amendment of 1953 contain clauses dealing with inspection requirements in their appropriate spheres. The Bolters, Lifts, and Cranes Act 1950 and the Machinery Act 1950, which together replaced the Inspection of Machinery Act 1928, are also relevant in this connection. The Radioactive Substances Act 1949, the Electricians Act 1952, the Physiotherapy Amendment Act 1953, the Geothermal Energy Act 1953, and the Transport Act 1949 likewise contain sections designed to promote safety in the appropriate sphere of operations.

Acts covering the working conditions and rates of remuneration for State employees during the period 1936–53 are the Government Railways Act 1949 (consolidation), the Post and Telegraph Amendment Act 1944, the Government Service Tribunal Act 1948, and their amending Acts.

Other items of legislation concerned with labour-force activities generally are now briefly mentioned. The Industrial Conciliation and Arbitration Amendment Act 1943 authorized recovery of money due under an award, while the 1947 amendment provides for the taking of a secret ballot by every industrial union of workers or of employers on questions relating to strikes and lockouts. The Statutes Amendment Act 1948 also included clauses relating to wages recovery under an award, and for retrospective payments (the latter repealed in 1951). A consolidating and amending measure relating to apprenticeship was passed in 1948, being the Apprentices Act of that year.

Amendments were made in 1947, 1948, and 1951, to the Waterfront Industry (Emergency) Regulations 1946.

The Waterfront Royal Commission Act 1950 made special provision as to the Royal Commission appointed on 21 September 1950 to inquire into and report upon the waterfront industry in New Zealand.

In accordance with the recommendations of the Royal Commission, the Waterfront Industry Act 1953 provides for the continuance of the existing Waterfront Industry Commission, Waterfront Industry Tribunal, Port Conciliation Committees, and in addition provides for the appointment of Combined Committees and for National Conciliation Committees. Provision is also made for a National Amenities Committee and Port Amenities Committees with functions in relation to the provision of amenities for waterside workers. In other respects the Act follows closely the provisions of the 1946 regulations which were revoked by the Act.

In 1951, following on a long period of industrial trouble, more particularly in connection with the waterfront industry, the need for revision of certain aspects of industrial legislation was recognized. Subsequent legislation which might be considered as coming within this category include the 1951 amendments to the Industrial Conciliation and Arbitration Act and the Police Officers Act. The former of these requires, *inter alia*, for the rules of an industrial union of employers or workers to provide for election of officers by secret ballot; empowers the Registrar to refuse to record unreasonable or oppressive rules; makes provision for exemption from union membership on religious grounds; substitutes new definitions of the terms strike and lockout, and increases the penalties for certain offences in connection therewith; provides for the appointment of Local and National Disputes Committees with power to decide disputes on matters arising out of an award or agreement but not specifically dealt with therein; varies the earlier provisions as to the date from which the wage rates in an award will normally operate; and contains restrictions on levies and subscriptions payable by members of a Part II of the same amendment relates to cases of disputed elections in unions. The Police Officers Amendment Act 1951 deals with offences relating to sedition and intimidation, including assaults on workers, badges, etc., and picketing.

The entire body of fair-rents legislation commencing with the 1936 Act was revoked by the passing of the Tenancy Act 1948, the latter being amended in 1950 and 1953. The Shipping and Seaman Act 1908 was amended in 1948; it was consolidated in 1952. The Fisheries Act 1908 was amended in 1948 and 1953.

38 B—WORKING CONDITIONS

GENERAL.—Working conditions of women and girls in factories were the subject of legislation as early as 1873; but the first legislation of this nature applying to all factory workers was the Inspection of Machinery Act of 1874, which provided for the inspection of machinery in factories, etc., and required that persons in charge of boilers should be properly qualified, while three years later an ineffective Factory Act was passed. But it was the Ballance and Seddon Governments which really initiated legislation in this sphere with five main Acts that have served as a basis for all subsequent legislation on this subject, and determined the lines along which progress was to be made—the Factories Act 1891, the Coal Mines Act 1891, the Shops and Shop-assistants Act 1892, the Shipping and Seaman Act 1894, and the Industrial Conciliation and Arbitration Act 1894. The Agricultural Workers Act 1836 represents a definite extension of the scope of this legislation.

A considerable proportion of the persons comprising the labour force of New Zealand have their working conditions determined either directly or indirectly by virtue of the provisions of the six Acts quoted above. Legislative authority covering the working conditions of substantially the greater portion of the remaining participants in the labour force is contained in the following together with amendments thereto:

Public Service Act 1912 and the Government Service Tribunal Act 1948.

Government Railways Act 1949.

Post and Telegraph Act 1928 and Post and Telegraph Amendment Act 1944.

Police Force Act 1947.

Education Act 1914.

Hospitals Act 1926 and the Hospital Employment Regulations 1952.

Waterfront Industry Act 1953.

It will not be out of place here to mention that working conditions were subject to considerable modification during the war period by the operation of various emergency regulations. The principal regulations involved were the Labour Legislation Emergency Regulations 1940 and later amendments; the Industrial Man-power Regulations 1944; the Waterfront Control Emergency Regulations 1940, replaced by the Waterfront Industry Emergency Regulations 1946; and the Rates of Wages Emergency Regulations 1940 and amendments. Of these, the Industrial Man-power Regulations 1944 were revoked in 1946, the Rates of Wages Emergency Regulations 1940 in 1949, and the Labour Legislation Emergency Regulations 1940 in 1951. The emergency wages and stabilization regulations were replaced by regulations under the Economic Stabilization Act 1948. The waterfront industry regulations were replaced by the Waterfront Industry Act 1953.

It is proposed in the following pages to survey in broad perspective the working conditions laid down by legislation for the components of the labour force. In so doing it is considered that the best approach is to deal with the major specific Acts concerned.

ANNUAL HOLIDAYS ACT AND ANZAC DAY ACT.—In addition to the specific measures mentioned earlier relating to working conditions, an Act of general application, except in cases where more favourable conditions already existed in awards, etc., was passed during the war entitled the Annual Holidays Act 1944, and subsequently amended in 1945 and 1950. This Act provides for an annual holiday of two weeks' duration on full pay for all workers, whether permanently or casually employed, who are not otherwise provided for in this respect. If a holiday benefit which a worker is entitled under any other provision is not less favourable than that provided for by the Act, such benefit is not affected, but if the benefit is less favourable the worker is entitled to the holiday provided for by the Act.

The holiday is to be given within six months after it becomes due, but if the employment is terminated before it has been taken the employer is required to pay the amount of holiday pay due. If any special holiday for which the worker is entitled to payment under any Act, award, or agreement, or under his contract of service, occurs during the period of the annual holiday, the length of the annual holiday is increased by one day in respect thereof. An amendment passed in 1945 provided that not less than seven days' notice must be given by the employer of the day on which the annual holiday is to commence, unless an agreement has been made to the contrary.

Where a worker has been employed for less than one year, no termination of employment he is entitled to payment equal to one twenty-fifth of his ordinary pay for the period of employment. The 1950 amendment abolished the former provisions relating to holiday cards and stamps.

An employer is required to keep a record (holiday book) containing particulars of employment, annual holidays, and amounts paid in respect of each worker in his employment.

The Anzac Day Act 1949 provides that the 25th day of April in each year shall be known as Anzac Day, and shall be observed throughout New Zealand in all respects as if Anzac Day were a Sunday. The Act prohibits the transfer of a holiday, observance of certain hours of labour, or payment at certain rates of wages on Anzac Day to any other day instead of Anzac Day, although an employer may grant a holiday on any other day instead of Anzac Day where the worker is required to work on Anzac Day at ordinary rates of wages.

FACTORIES ACT.—A brief summary of the earlier factory legislation of New Zealand may be found on page 825 of the 1940 issue of the Year-Book. It covers the Factories Acts of 1891, 1908, and 1921–22, with their amendments. The last-mentioned enactment and subsequent amendments to it were, however, consolidated by the passing of the Factories Act 1946. In the ensuing paragraphs various phases of factory legislation as the law now stands have been selected for individual exposition.

Prior to 1936 the term "factory" had included all establishments where two persons were employed, as well as all places using mechanical power, all bakeries, laundries, gasworks, and several other enumerated establishments. The 1936 amending Act extended the term "factory" to all establishments where one person was employed, while the Factories Act 1946, which consolidated and amended the existing legislation, further extended the term "factory" to include places where milk is pasteurized, abattoirs, and "every building or place in which any noxious handicraft, process, or employment is carried on." The definition was further enlarged to include "any building, office, or place in which two or more persons are engaged ... directly or indirectly, in any handicraft, or in preparing or manufacturing goods for trade or sale." The 1946 Act also brought Government-owned factories within the scope of the legislation.

Hours of Work and Overtime.—A forty-hour week was prescribed by the 1936 amendment as the legal maximum for an ordinary working week in place of the pre-existing maximum of forty-eight hours (women and boys, forty-five hours). The number of hours per day was fixed at eight, while work could not be continued for more than four hours and one-quarter (previously five hours) without an intermission of at least three-quarters of an hour. Certain industries which were previously exempt from the forty-eight-hour maximum—meat-freezing works, dairy factories, fellingmongery, fish curing, jam making, bacon curing—were also exempt from the operation of these provisions, but the Factories Amendment Act 1945 extended the principle of the forty-hour week to all factories. These provisions, as amended, were re-enacted in the consolidation measure entitled the Factories Act 1946.

No boy or girl under sixteen years of age is permitted to work overtime. In the case of all workers over sixteen years of age in laundries, and of women in other factories, not more than three hours' overtime may be worked in one day (excluding time worked before noon on Saturday), and not more than nine hours in any week, nor ninety hours in any year, nor on more than two consecutive days in any week. Thirty hours (above the ninety) may be authorized by an Inspector of Factories, and a further thirty upon the consent of the Minister of Labour. The overtime rate is time and one-half, and the minimum rate, which had been raised to 1s. 6d. per hour by the Factories Amendment Act 1936, was increased to 1s. 9d. per hour by the Factories Act 1946.

There are special provisions in regard to overtime work for certain industries—e.g., laundries, and for fruit-canning factories and jam-making factories during the period between 1 January and 1 April.

Section 16 of the Statutes Amendment Act 1948 extends the Minister's power to consent to additional voluntary overtime by women in factories or by men and women in laundries, up to a maximum of eighty hours in a year.

Holiday Provisions.—The number of paid holidays (apart from the annual holiday described earlier) granted to factory workers was increased from six days to eight days by the 1936 amendment and was extended to cover all workers—not only boys under eighteen and women as previously. For five of these days wages were payable to all persons employed at any time during the preceding fortnight, and for the other days those employed on any four days of the preceding week. Payment for each whole holiday mentioned in the Factories Act was made to apply to all persons employed at any time in the fortnight ending on the day on which the holiday occurs. Special provisions have been made requiring extra payment to be made for work done on Sundays or holidays. Generally speaking, double time is counted for work done on statutory whole holidays (where the worker would be paid ordinary time if not working), double time on Sundays, and time and one-half on half-holidays. In connection with holidays, reference should also be made to the Annual Holidays Act 1944, the provisions of which are outlined on page 922.

There are also special provisions in regard to holiday work for industries such as dairy factories, milk-preserving factories, and newspaper printing or publishing. It should be noted also that the Public Holidays Amendment Act 1948 gives rules which shall be applicable to the provisions of any Act, award, or industrial agreement when Christmas Day and New Year's Day fall on a Saturday, or when an Anniversary Day occurs on a Saturday or Sunday. The effect of this amendment is as follows: Where Acts, awards, or industrial agreements provide for the granting of a holiday, or the observance of certain hours of labour, or the payment of certain specified rates of wages on the days specifically mentioned, these provisions will apply on the next succeeding Monday. If, however, provision is made for granting a holiday on a Saturday, such provisions apply without modification.

Section 15 of the Statutes Amendment Act 1948 repealed the special definition of the terms "holidays" and "Sundays" in their application to morning newspapers and replaced them by new definitions which relate to all newspapers. A "day" for holiday and overtime purposes is defined as from noon on one day to noon on the following day in the case of newspaper offices and works.

Restrictions on Employment.—No boy or girl under fifteen years of age may be employed in any factory, except in a case authorized by an Inspector. Such an authorization may only be given if the boy or girl is over fourteen years of age and is exempted from the general obligation to attend school, until the age of fifteen years is reached. No boy or girl under sixteen years of age may be employed in any factory unless a certificate of fitness is issued by an Inspector of Factories, and no such certificate may be granted unless the proposer employer obtains at his own expense a medical certificate of fitness from a Medical Officer of Health, or from a registered medical practitioner nominated by a Medical Officer of Health.

Minimum Rates of Pay.—The minimum rate of pay was raised by the Factories Amendment Act 1946 from 10s. to 15s. per week, and rose by half-yearly increments of 4s. per week until the end of the third year, when a minimum of £2 per week operated. The Factories Act 1946 further increased the minimum to 22s. 6d. per week with half-yearly increases of not less than 5s. per week, until a weekly rate of £2 12s. 6d. was reached. These rates are, however, subject to the provisions of the Minimum Wage Act 1945 and Orders made under the Act in respect of workers of twenty-one years of age and over.

Safety, Health, and Welfare.—The 1936 amendment extended the application of rules for the safety and welfare of factory workers, and further provisions in this connection are contained in the 1946 Act. The safety measures have reference to machinery, dangerous liquids, means of access and safety of places of employment, and means of escape in case of fire, etc. The employer is required to keep a register of all accidents of which he has any knowledge, and first-aid appliances must be provided and maintained. The health and welfare provisions are very extensive and include reference to such matters as air space, cleanliness, ventilation, canteens, the care of employees, amenities and other things to be supplied by the employer to ensure employees' health or welfare, and to the making of regulations laying down standards as to what may be regarded as adequate, effective, sufficient, or suitable health and welfare requirements.

Other Provisions.—In addition to replacing previous factory Acts and amendments the Factories Act 1946 specifically stated that the Act shall bind the Crown. It also includes the normal provisions relating to powers of inspection, registration, maintenance of records and exhibition of notices, requisitions by Inspectors, and the prescription of offences, penalties, and procedure. Finally, it provides for awards and industrial agreements to be read subject to the provisions of the Factories Act.

SHOPS AND OFFICES ACT.—As in the case of the Factories Act, important amendments were made to the Shops and Offices Act in 1936, when further advances in keeping with those made in other branches of industrial legislation were put into operation. These were supplemented by further amendments in 1945, 1946, and 1951.

A "shop" in the principal Act (the Shops and Offices Act 1921–22) is defined to include an hotel, a restaurant, a hairdressing saloon, and an auction market, but special provisions relating to hotels and restaurants as well as to cafes, fruiterers, tobacconists, and other particular shops are contained in the principal and amending Acts.

An "office" covers any building in which any person is employed, directly or indirectly, to do any clerical work in connection with any mercantile or commercial business carried on by the occupier, but does not include solicitors' offices or mining offices except in respect of minimum-wage rates provisions.

The definition of the term "shop assistant" was extended by the 1936 amendment to include those employed in the general management or control of a shop, subject to a wage qualification.

Hours of Work and Overtime.—The 1936 amending Act reduced the hours of work for forty-eight to forty-four per week, and a further reduction was made by the Shops and Offices Amendment Act 1945, which came into operation on 7 December 1945. The latter amendment provides for a forty-hour week for shop assistants, but the Court of Arbitration is empowered, on the application of any party (by order in the case of any existing award or in any new award), to extend the hours to forty-four where it is of the opinion that it would be impracticable to carry on efficiently the particular class of business without such extension, but the time worked beyond forty hours is to be paid for at overtime rates—namely, time and a half, with a minimum of 1s. 9d. per hour.

Hours must be worked continuously—i.e., not exceeding eight per day, but up to eleven on one day in the week—except for meal times and breaks for refreshments. If the meal time exceeds one hour, the extra time over the hour is to be regarded as time worked. Extension of the weekly hours from forty to forty-four was permitted up to the end of June 1946, but a forty-hour limit was imposed thereafter if extension by the Court was not authorized by that date. Awards and agreements were required to be read subject to the amending Act, but the existing rates of wages were not to be reduced nor the existing working hours increased.

Limited overtime (to be paid for at time and a half rate) may be worked for stocktaking and on special occasions. A break of not less than one hour for a meal must be allowed after four and one-quarter hours' continuous work, except that an extension to five hours may be made if ten-minutes' rest is allowed at the end of a working period of three hours.

All assistants employed in hotels and restaurants are brought under special provisions as to hours, overtime, etc. As in the case of shop assistants, hotel and restaurant employees must be allowed an interval of an hour for a meal after four and one-quarter hours' continuous work. The 1945 amendment did not cover hotel and restaurant workers as far as the reduction in hours was concerned, but they were brought into line by a further amendment passed in 1946. This amendment came into force on 13 October 1946, but provision was made for hotel and restaurant workers to be employed up to forty-four hours per week until 30 June 1947, provided that time and a half rates were paid in respect of the hours exceeding forty. As in the case of shop workers, the Court of Arbitration may, upon application by any party bound or to be bound by any award covering assistants in hotels or restaurants, authorize employment up to forty-four hours per week if it is considered impracticable to carry on efficiently the business of the class of hotels or restaurants specified in the authorization without such extension of hours. Any such extended hours must be paid for at overtime rates. Up to 120 hours per annum additional overtime is permissible under the Act.

The hour of commencing work must not be earlier than 7 a.m., except in certain specified instances—e.g., bakers (4 a.m.), butchers (6 a.m.). Persons engaged in delivering milk may be required to start work at 3 a.m. or—in accordance with conditions approved by the Minister, but not otherwise—earlier than 3 a.m. The above exceptions do not apply in the case of boys or girls under sixteen years of age. The latest hour to which a male shop assistant may be employed in any trade is 10.30 p.m., or 11 p.m. on one day in the week in certain instances; while boys under eighteen or females may be employed until 9.30 p.m., but there are exceptions on certain days—e.g., Christmas Eve. The principal Act provided that female assistants and boys under eighteen could be employed in restaurants up to 10.30 p.m., but not after that hour. The 1946 amendment, however, provides that where parties to an industrial dispute agree in the matter and incorporate their agreement in an award or industrial agreement, female assistants over the age of twenty-one years may be employed up to 11.30 p.m. In any such case satisfactory provision for conveying these assistants to their homes must be made. There is no limit under the Act to the time at which adult male hotel and restaurant employees may be required to commence or cease work, although the total hours per day and per week are fixed as above.

Offices are required to close at noon on the statutory half-holiday and at five o'clock on every other working day, certain exceptions—e.g., shipping offices, railway offices, and newspaper offices—being allowed. The list of exemptions from this provision was substantially reduced by the 1936 Act, banks and insurance offices being important cases previously exempt. In practice, a five-day week is worked in most offices. Limited employment after office hours is permitted for such purposes as making up balances, etc., payment for overtime at the rate of time and a half and meal allowance being mandatory in respect of such overtime.

Opening and Closing Hours of Shops.—The closing hours of shops in any district have for many years been fixed pursuant to the Act by "requisition" of a majority of the shopkeepers, if desired, either in the whole of the local district or in any trade in the local district. The hours of closing have been thus determined in very many trades and districts.

In 1920 an amendment to the Act prescribed compulsory closing hours at 6 p.m. on four days of the week and 9 p.m. on one day in the well-populated areas, except in certain exempted trades, thus incorporating by statute the closing hours as already determined by "requisition" in many cases. With the passing of the 1945 amendment the Court of Arbitration has power when making an award in any trade to fix the opening and closing hours of all shops in the particular trade in that locality, and also to provide that such shops shall not be open for business on working day in each week or on any award holiday. Before the Court exercises any of these powers, however, it is required to have regard to all relevant considerations. In very many instances these powers have been exercised and the result of the 1945 amendment has been that the majority of shops are open for five days in the week only.

The occupier of every shop, whether employing assistants or not, is deemed to be an employer within the meaning of the Industrial Conciliation and Arbitration Act, and therefore bound by an award relating to shop assistants for the purpose of bringing his premises within the closing provisions fixed in an award.

A Magistrate may grant exemption (a) from any opening hours fixed by the award, (b) from any provision that shops shall close for the whole of one working day, and (c) from any provision that shops shall be closed on holidays.

Holiday Provisions.—The number of paid holidays provided by the Shops and Offices Act is seven, and employees not otherwise provided for are entitled to the benefits of the Annual Holidays Act 1944. The provisions of the Public Holidays Amendment Act 1948 also apply (refer page 923).

In regard to the closing of shops, a weekly half-holiday from noon in compulsory, with a few exceptions. The closing day is fixed in each district by the local authority, except where it is decided by a poll of the electors taken on petition of a certain number. Even in the exempted trades, a half-holiday must be given to each assistant on a day to be fixed by the occupier.

Where a shop assistant in a chemist's shop works between 7 and 9 p.m. on the statutory closing day, and is paid for this at the overtime rates prescribed by an award or industrial agreement, he is not also entitled to double time off within the next seven days.

Special provisions operate in respect of holidays for all assistants employed in hotels and restaurants.

Minimum Rates of Pay.—The minimum rates of wages payable to shop assistants under the Shops and Offices Act are the same as those provided for by the Factories Act (refer p. 923). As in the case of factories, higher rates may be fixed by awards and industrial agreements. The provisions of the Minimum Wage Act 1945, and Orders made under it, also apply.

The minimum wage rates applying to shop assistants apply also to office assistants. Prior to the 1936 amendment, office assistants did not come within the scope of the provision for minimum wages. This particular provision also applies to solicitors' offices and mining offices, which do not come within the definition of the term "office" in respect of other provisions of the Act.

Safety, Health, and Welfare Provisions.—The Act also makes provision for the comfort, health, and safety of assistants—viz., in regard to seating accommodation, ventilation, heating, sanitation, and hygiene.

The 1951 amendment extends to warehouses and goods stores the provisions of the principal Act relating to sanitation and health rules in shops and offices. This amendment also authorizes the making of regulations for the safety, health, and welfare of persons employed in shops, offices, warehouses, or stores; particular matters that may be covered relate to dangerous liquids and noxious gases, limitation of loads, safe means of access, construction and maintenance of floors, passages, stairs, fire escapes, lighting, drainage, washing facilities, clothing accommodation, seating and first aid facilities, rest rooms for women, accommodation for meals, etc.

Other Provisions.—Each trade in any district may, by a majority vote, obtain an order of the Minister of Labour prohibiting the sale in the district, during the time the shops in such trade are required to be closed, of the goods the sale of which is comprised in such trade. This provision is inserted to meet those cases where there is overlapping of the trades of various shopkeepers, only some of whom are required to close at a certain hour. The provision enables a majority of the shopkeepers in any trade to fix the closing hours for that trade applies only to those who are principally engaged therein; if the latter are desirous that other shopkeepers carrying on the trade as a minor portion of their business should cease selling the same goods at the closing hours fixed, they may apply to the Minister for an order prohibiting such sales.

No premium may be received by the occupier of any shop in respect of the employment of any shop assistant, or in respect of the teaching or training of any person in any trade or business carried on in the shop, unless the shop is approved by the Chief Inspector appointed under the Factories Act 1946 as a school for learners in a trade or business, and the payment is made pursuant to a written agreement that is approved by the Chief Inspector. The Chief Inspector cannot approve of any shop as a school for learners in any trade or business unless he is satisfied that reasonable facilities are provided for learning the trade or business, and he may at any time withdraw his approval if he ceases to be so satisfied. The Chief Inspector must not approve of any agreement under this section unless he is satisfied that the terms of the agreement are reasonable.

Provision is made for the keeping of a timetable of hours of duty of fruiterers' assistants; and, under certain conditions, shops which sell smoking requisites in addition to carrying on other easiness may be compelled to close early in the evenings.

There are also the usual provisions governing powers of inspection, requisition, and the prescription of offences and penalties.

Awards and industrial agreements covering shop and office workers are to be read subject to the provisions of the Shops and Offices Act—i.e., the conditions, etc., laid down in such awards and agreements must be at least equal to those prescribed in the Shops and Offices Act.

MINING LEGISLATION.—Since the passing of the original Coal Mines Act 1886 legislation relating to coal mines has always been set out separately from that regulating all other mines. The present law relating to mining and quarrying will therefore be found for the most part in the Coal Mines Act 1925 and subsequent amendments, the Mining Act 1926 and amendments, and the Quarries Act 1944 and its amendment of 1951. A noteworthy feature of such Acts is the appointment of Inspectors with wide powers.

Application of Mining Acts.—A "mine" under the Mining Act means generally any mine other than a coal mine, while by the Quarries Act 1944 a quarry is defined as any place in which persons work in excavating any kind of material from the earth, and by an amendment passed in 1951, includes an open-pit coal quarry. A quarry does not include any place (other than an open-pit coal quarry) in which mining or searching for coal, gold, schistite, or petroleum is carried on; any road cutting or railway cutting; any tunnel in whose construction explosives are not used and which is less than 50 ft. long or any shaft less than 15 ft. deep; or any excavation under the Scaffolding and Excavations Act 1922.

Hours of Work, Overtime, Holidays, and Rates of Pay.—In common with the practice pertaining for many other industrial groups of workers, the current working conditions for miners and quarry men generally are determined in the awards made by the Industrial Conciliation and Arbitration Court from time to time, rather than by existing statutory provisions. In the construction of awards, conditions may be, and probably are, more favourable than those required by statute, but in no case can the award provisions be less favourable. These comments apply in particular to questions of hours of work, overtime, holidays, and wage rates for workers in those industries covered by the mining and quarrying Acts. Both principal mining Acts prohibit employment in or about mines on Sundays unless the previous authority of an Inspector of Mines has been obtained. By a decision of the Coal Mines Council, a seven-hour day was introduced for all underground workers in coal mines as from 5 April 1948, and this provision was extended to underground workers in other mines by the Mining Amendment Act 1948 as from 1 January 1949. This was in lieu of the former eight-hour limit.

Restriction on Employment.—The following legislative restrictions are operative on the employment of women, youths, and boys. No female of any age or any lad under the age of fourteen years may be employed in or about a mine or coal mine except in a clerical capacity, or by virtue of a 1937 amendment, as nurses or charwomen. A similar restriction is imposed by the Quarries Act 1944, except that the age limit for youths is raised to sixteen years. At the present time, also, no male under the age of sixteen years may be employed underground in any coal mine, or in any alluvial mine, or on or about any dredge; while the minimum age in respect of underground work in a quartz mine was raised by the 1948 amendment to the Mining Act from eighteen to nineteen years of age. In addition, the employment of youths in specified occupations is prohibited both in coal and other mines, while no youth under twenty-one years is permitted to be in charge of certain types of machinery used in coal mining. No youth may be employed in a mine for more than eight hours per day or forty-eight hours per week except in cases of emergency. As stated earlier, the employment of manual labour on Sundays without the previous consent of an Inspector of Mines is prohibited, while any time so worked must be paid for at higher rates.

Safety, Health, and Welfare Provisions.—In general the provisions of the Coal Mines Act 1925 resembled those of the Mining Act 1926 in so far as safety, etc., is concerned, although, of course, to combat the special risks of coal mining additional regulation is necessary. Naturally enough, a very large part of each major mining or quarrying Act deals directly with the subject matter of this paragraph. The appropriate provisions are now considered under the respective mining Acts.

Mining Acts.—The 1926 Act required that a person acting in the capacity of mine manager of any mine where there are more than twelve men employed at any one time above ground, or more than six underground, must hold a certificate granted after examination by a Board of Examiners empowered under the Act to grant such certificates. Provision is made for proper ventilation in mines, the air temperature must not exceed 80° Fahrenheit in any working place, special care is required to be taken in handling explosives, dangerous places must be properly timbered, and special regulations are made as to hauling machinery, etc.

All machinery used to supply motive power is subject to the provisions of the Boilers, Lifts, and Cranes Act 1950 and the Machinery Act 1950 (which together replaced the inspection of Machinery Act 1928) so far as these provisions apply. Inspectors of Mines have the powers of Engineer Surveyors under the former Act and, by the Mining Act 1953, they are also given the powers of Inspectors of Machinery under the latter Act. Sufficient water must be supplied where it is necessary for the laying of dust in a mine. The Mining Amendment Act 1927 provides, *inter alia*, that a mine where twenty men or over are employed on one shift must have two outlets.

The Mining Amendment Act 1941 lays down that every person in charge of electrical apparatus in a mine must be the holder of a mine electrician's certificate. The appointment of an Electrical Inspector of Mines is provided for.

Comprehensive amending regulations pursuant to the Mining Act were issued in August 1945. These regulations, in addition to other matters relating to mining, prescribe the conditions and subjects relating to the examinations for mine managers, battery superintendents, and dredge masters' certificates. The regulations also lay down the types of electrical apparatus that may be used in any mine, the conditions under which they may be used, and the safeguards that must be employed.

Coal Mining Acts.—For every coal mine there must be a duly qualified manager, who must be either the owner of the mine or some person appointed by the owner, and who is responsible for the control, management, and direction of the mine. Section 8 of the Statutes Amendment Act 1944 prescribes the present qualifications that are required to be held by managers of coal mines. These vary according to the number of men employed in the mine, and also according to whether all the workings are opencast or otherwise. Inspectors of Coal Mines appointed under the Act must hold certificates as first class mine managers under the Act. Certain sections of the Act deal with the control of coal dust, the use of safety lamps, first aid endorsement on certificates of competency, the prohibition of work in places where the presence of gas is suspected, and the inspection of the mine before the commencement of work, etc. Suitable housing accommodation must be supplied for workers if required by notice of the Minister of Mines. Comprehensive regulations pursuant to the 1925 Act, and known as the Coal Mines Regulations, were issued in 1939, and amended in the same year, and in 1942, 1947, and 1949. All accidents in mines rendering a workman unfit for work are now notifiable under the 1953 amendment.

A levy of 1/6d. per ton—increased to 1/d. per ton as from 1 January 1948 by the Coal Mines Amendment Act 1947—on every ton of marketable coal raised from mines was made under the terms of the Act, such moneys forming a fund for the relief of miners injured in the course of employment and of their dependants in the case of death. Information as to miners' pensions (now miners' benefits under the Social Security Act 1938), provided for originally by the Miners' Pensions Act of 1915, is contained in Section 7A of this book. A levy of 3d. per ton on all marketable coal raised from mines was authorized by the Coal Mines Amendment Act 1950 in order to provide amenities in coal-mining districts.

The preceding levies were replaced by a levy at the rate of 6d. a ton on coal other than lignite and 4/6d. a ton for lignite to be paid into a new fund, called the Coal Mining Districts Welfare and Research Fund. This fund will be used for the purposes of relief of miners injured in the course of employment, and to provide amenities in coal-mining districts, while moneys may be expended from the fund for research and otherwise generally for the benefit of the industry. The Coal Mining Districts Welfare and Research Council (replacing the Amenities Council) or the Local Committees (in the case of coal miner's relief) will direct the expenditure.

By an amending Act passed in 1927 wages for a period not exceeding six months, payable by the owner of a coal mine in respect of mining operations, constitute an equitable charge on plant and machinery, with priority over mortgages, etc. Proceedings for the enforcement of the charge must be commenced within twelve months.

An amending Act passed in 1936 provided further measures for the safety of miners. Additional precautions were provided to ensure that unlawful lifts, etc., are not taken into mines, and further safeguards were made to alleviate the danger to the health of miners from the presence of dust in mines. Provision was also made for the Minister of Mines to establish central rescue stations in coal-mining areas.

The Coal Mines Amendment Act 1937 contains many provisions designed to ensure the greater safety of workers engaged in coal mines. No person under the age of twenty-three years may be employed as a mine manager or other mine official, while certificates of competency as undersurveyors or firemen deputies must be periodically endorsed by an Inspector of Mines to the effect that the official has passed certain specified efficiency tests. Certain appliances by which coal may be, in effect, screened or sized may not be used underground. A further provision as to housing accommodation for miners is also included in the amending Act. The Minister may require a mineowner to pay part of the cost of conveyance of workers to the mine in lieu of providing housing accommodation. In accordance with section 9 of the Statutes Amendment Act 1944, the Minister may require underground transport to be provided for workmen where he considers it necessary.

The Coal Mines Amendment Act 1941 provides that an Inspector may, if he considers it expedient, require a mine, which on the basis of the number of employees might be managed by a person with a certificate lower than that of a second class mine manager, to be managed by a person with a higher certificate than that prescribed by the principal Act. He may also require the appointment, for any shift, of officials additional to those normally required. Stricter provision is also made regarding the use of lamps. The appointment of an Electrical Inspector of Coal Mines is provided for, and the Board of Examiners has been empowered by the addition of a registered electrical engineer or wiseman nominated by the Electrical Wiresmen's Registration Board, an Engineer Surveyor, and an Inspector of Machinery. Inspectors of Coal Mines also have the powers of Engineer Surveyors and Inspectors of Machinery under the appropriate Acts.

Quarries Act.—The Quarries Act 1944, as amended in 1951, makes better provision for the regulation of quarries by consolidating (with amendments) the Stone Quarries Act 1910 and its amending Acts. The Act contains provisions as to Inspectors, and the appointment, qualifications, and duties of quarry managers. In all cases where three or more men are engaged in quarrying operations at any one time, or where explosives are being used, a qualified quarry manager must be in charge. This is modified by section 67 of the Statutes Amendment Act 1945, which provides that a permit to act in the capacity of a manager may be granted to a person who does not hold the necessary certificate in the case of any quarry in which no explosives are used and all the workings are above ground. Adequate rules are provided for the safety of workers and the prevention of accidents.

The Quarries Amendment Act 1951 placed opencast coal quarries under the authority of this Act and made consequential amendments to the Coal Mines Act 1925, certain provisions of which are now applied to opencast coal quarries. Quarry managers are to be appointed for all such quarries, while other sections of the Act cover the qualifications safety requirements, etc. Provision is made also for the principal Act to bind the Crown.

SHIPPING AND SEAMEN LEGISLATION.—The first statute relating to this subject was passed in 1858, when the New Zealand Parliament extended the provisions of the Merchant Shipping Act passed by the British Parliament in 1854 to all British ships under the jurisdiction of New Zealand. This Act contained a series of regulations designed for the safety of passengers and crew, and for the amelioration of working conditions on board ship. Further Merchant Shipping Acts Adoption Acts were passed in 1869, 1873, and 1874, while other acts followed. A consolidating and amending Act was passed in 1903, which was consolidated with a few minor amendments in 1908, and a further consolidating Act in 1952, the law embodied in the 1952 Act coming into force on 19 November 1953.

The Offences at Sea Act 1953 assembles the existing legislation as to the jurisdiction exercisable by Courts in New Zealand in respect of offences committed on the high seas or on ships within the territorial waters of New Zealand or other countries.

The Shipping and Seamen Act 1908 stated that the general superintendance of matters relating to merchant ships and seamen in New Zealand is with the Marine Department. Provision is also made for the registration of ships in New Zealand. The Act does not apply to ships belonging to Her Majesty, nor to ships belonging to the Government of New Zealand. The collision and salvage sections do, however, apply to Government-owned ships. Other provisions relate to masters, officers, and seamen, although some of them do not apply to pleasure yachts, missionary ships, and fishing boats.

In the following paragraphs a "home-trade ship" refers to a ship employed in trading between any ports of New Zealand, plying in any navigable waters therein, or which goes to sea and returns without proceeding farther than fifty miles from the coastline. The "minor" islands, Island Territories, and the Chatham Islands, mentioned in Section 1, for the purposes of the Act are deemed to be places outside New Zealand. A "foreign-going" ship accordingly covers any ship not included in the foregoing category.

Hours of Work, Overtime, Holiday, and Wages Provisions.—Under the Shipping and Seamen Amendment Act 1946 the normal hours of work of seamen, whether at sea or in port, are restricted to eight per day or forty per week. Seamen may be required to work hours in excess of these, but shall be recompensed for the excess (by payment at a higher rate or by the allowance of time off on pay) as may be prescribed by an award or industrial agreement under the Industrial Conciliation and Arbitration Act or by an agreement under the Labour Disputes Investigation Act. Where no such provision in an award or agreement applies, recompense will be made in such manner as may be prescribed by an order of the Court of Arbitration made on the application of a party concerned. "Hours of work" is defined as "time during which the seaman is required by the orders of a superior to do any work on account of the ship or the owner, or to be at the disposal of a superior outside the seaman's quarters."

Time spent in certain specified work is excluded from the normal hours of work and is not subject to the special recompense for time worked in excess of normal hours. This includes work required for the safety of the ship when in immediate peril or to give assistance to other vessels or persons in immediate peril; masters, fire, lifeboat, and similar drills; normal and necessary work by officers to determine the position of the ship or to take meteorological observations; and work required for the normal relieving of watches.

Holiday provisions are negotiated in the construction of the award applicable, while the benefits of the Annual Holidays Act 1944 operate as the minimum permissible limit.

The wage rates on foreign-going ships trading between New Zealand ports are to equal the current rates of wages for such work paid in New Zealand at the same time. This does not apply to ships arriving from abroad, not trading in New Zealand further than to ship or discharge overseas passengers or cargo. The clearances of foreign-going ships which are required to pay the coastal rate of wages are to be withheld until such wages are paid.

Restrictions on Employment.—In accordance with the provisions of the International Labour Convention (Geneva) 1921, the employment of persons under fifteen years of age in any capacity on board ship is prohibited, as is also the employment of any persons under eighteen years of age unless they have first been medically examined and passed as fit to engage in the capacity concerned. A further subsection of the Act prohibits the employment of persons under eighteen years of age as trimmers or firemen on steamships. These limitations on employment do not apply to cases of training ships where the work is of a kind approved by the Minister and is carried out under proper supervision.

Competence, Safety, Health, and Welfare Provisions.—The Shipping and Seamen Act 1952, consolidating and amending previous legislation on this matter, made provision with respect to the international conventions to which New Zealand is a party and is also complete in itself, requiring no reference (as was necessary hitherto) to United Kingdom legislation. The conventions which have been incorporated in the Act, and which deal principally with safety measures, were the International Convention for the Safety of Life at Sea of 31 May 1929, the International Convention for the Safety of Life at Sea (London) of 10 June 1948, and the International Convention on Load Lines of 5 July 1930. Adequate provision is made to ensure competence on the part of the controlling officers of ships. Home-trade steamships of 60 tons register and upwards, and home-trade sailing ships of 100 tons register, must carry certificated mates, and such ships of 100 tons register and upwards trading more than three hundred miles between terminal ports must have second mates. A foreign-going ship is required to carry two certificated mates. Foreign-going certificated mates are entitled to ship as mates in the home trade. It is an offence for a master or owner to engage a certificated officer for the purpose only of enabling the ship to clear and not for the purpose of making the voyage.

Provision is made for issuing certificates of competency to second mates of home-trade ships, and for recognizing as valid in New Zealand, certificates of masters, mates, and engineers granted in any part of the British Commonwealth.

Any master or mate may, at any time, be required by the shipowner or the Minister of Marine to be examined in sight tests by the Government Examiners.

Further sections dealing with the safety of the ship require the adjustment of compasses to be carried out under regulations, while power is given to the Minister to define restricted trading limits for steamers and for vessels propelled by oil, gas, etc. The Governor-General in Council is empowered to make regulations as to the loading and stowage of ballast and the loading of grain cargo in bulk. It is an offence to ship wool, fax, tow, or skins in such a condition as to be liable to spontaneous combustion.

The Shipping (Dangerous Goods) Rules 1953, the Collisions Regulations Order 1953, and the Shipping (Grain) Rules 1953 are all concerned with the subject matter under consideration.

Since 1909 there has been a gradual extension of the type of ship required by law to be equipped with radio installations. The regulations now define the nature of the installations and service, and the number and grade of operators in different classes of vessels, and provide for inspection thereof.

The provisions regarding working conditions on vessels require, *inter alia*, proper sanitary, hospital, and lavatory accommodation, including bathrooms, to be provided for the crew, together with an adequate supply of hot water for those employed in connection with the engines, while a prescribed minimum of space for the seaman's quarters is also laid down.

Intercolonial ships—i.e., those trading between New Zealand and Australia, or New Zealand and the central Pacific islands—in addition to home-trade ships are made liable to pay the wages, maintenance, and medical expenses of seamen taken ill in the service of the ship for the remainder of the agreement, not exceeding three months; and in the case of intercolonial ships, if the agreement expires within one month from the commencement of the illness, payment is to be made for one month after the expiry. The illness which entitles a man to the benefits provided for, is one which requires medical treatment for fourteen days.

An amendment to the Shipping and Seamen Act made in 1948 prescribed fines not exceeding £100 in any case of a breach of any safety rules made expressly for those small craft not subject to the provisions of the principal Act relating to survey, etc.

Other Provisions.—Desertion is defined, and deserters who cannot be held with their former ship sail can afterwards be prosecuted by the owner or agent, and copies of the agreement and the entries in the log book are to be accepted by Courts as evidence. Forfeited wages are to be paid into the Public Account.

The 1950 amendment provided for the deportation from New Zealand of every seaman or apprentice who is convicted of the offence of desertion or absence without leave from his ship. This does not apply to seamen or apprentices engaged in New Zealand nor to seamen or apprentices from foreign ships. Provisions for the deportation of foreign deserters were already contained in the principal Act and in the Immigration Restriction Act 1908.

It is unlawful for any person other than the owner, master, mate, or engineer of a ship, or a Superintendent of Mercantile Marine, to engage or supply seamen for ships, and only seamen who have a knowledge of the English language are allowed to ship.

The law as to inquiries into shipping casualties is on the lines of the Imperial Merchant Shipping Act, and provision is made for rehearings, for Magistrates to order a change of venue, and, by the 1944 amendment, for Superintendents of Mercantile Marine to hold a preliminary inquiry where a shipping casualty has occurred. Inquiries are not to be held in Police Courts unless other suitable buildings are not available, and in cases where there has been loss of life but no damage to the ship the inquiries may be held by Coroners.

The risks run and sacrifices made by the crews of vessels under war conditions were recognized by the Government in the passing of the War Pensions and Allowances (Mercantile Marine) Act 1940. This Act, which made provision for the payment of pensions and allowances to members of the New Zealand mercantile marine and their dependants in respect of death, disablement, or detention as a result of the Second World War, is referred to in some detail in Section 7B of this Year-Book. Seamen also received special bonuses to compensate for the hazardous nature of their occupation during the war period and were later paid a special sea-going allowance.

For the purposes of the Land Act 1948 and the Rehabilitation Act 1941 any person who served during the Second World War in any British ship which, while he was serving therein, was damaged or destroyed as the result of enemy action, or who served in any other British ship other than a home-trade ship, is included in the term "serviceman," thus rendering such person eligible for rehabilitation benefits.

AGRICULTURAL WORKERS ACT.—The primary purpose of the Agricultural Workers Act 1936 was to make better provision for the accommodation of agricultural workers, and to make special provisions for the remuneration of workers on dairy farms and for the conditions of their employment. The Act also includes provision for the extension of these special provisions to other classes of agricultural workers, and, as indicated later, Orders in Council have been issued under this provision. Section 4 of the Statutes Amendment Act 1945 provides that where proposals for the extension to any specified class of agricultural workers have been submitted as required by the principal Act, and the parties are unable to agree, the matters in dispute may be referred to the Court of Arbitration for a recommendation to the Minister. The administration of the Act is carried out by the Department of Labour and Employment.

Another important measure dealing with farm workers is the Sharemilking Agreements Act 1937, which defined the respective responsibilities of employers and sharemilkers in farm management and control of stock, and prescribed the minimum percentages of returns to 10 sharemilkers. The Act contains provision for terms and conditions to be altered by Order in Council, and the latest agreement is contained in the Sharemilking Agreements Order 1946, which came into operation on 4 September 1946.

Orders in Council extending the operation of the provisions of the Act to other classes of farm workers have been issued from time to time—orchard workers as from 1 February 1937; workers on farms or stations used for the commercial production of wool, meat, or grain (including seed), whether exclusively or together with any other purpose, as from 1 May 1937; agricultural workers in market gardens, nurseries, etc., in the Wellington, Nelson, Canterbury, Otago and Southland, and Northern Industrial Districts, as from various dates between 22 April 1938 and 29 May 1939; and agricultural workers employed in the tobacco industry, as from 1 October 1941. The orders do not apply to workers covered by awards or agreements under the Industrial Conciliation and Arbitration Act.

Hours of Work and Overtime.—In the case of orchard workers the maximum hours that may be worked without payment at overtime rates are eighty per fortnight from 1 June to the end of September, and eighty-eight per fortnight from the beginning of October to 31 May. These are to be worked from Monday to noon Saturday except in necessitous cases and in the picking of stone fruit. In the shorter period the maximum hours to be worked at ordinary rates are not to exceed eight daily, and in the longer period ten hours per day. Overtime rates are payable in respect of hours worked outside the limits mentioned.

The ordinary hours of work for those employed in market gardens, nurseries, etc., are not to exceed forty-four in any one week, and are to be worked within the five and a half days, Monday to noon Saturday inclusive. In addition, no worker is to be employed for more than five hours continuously without an interval of three-quarters of an hour for a meal. Time worked beyond the limits quoted are to be paid for at overtime rates.

Agricultural workers employed in the tobacco industry during the months of May to December work at ordinary rates for eight hours daily from Monday to Friday, with a maximum of forty hours a week. Those employed in the field section during the remaining months may be worked an additional eight hours per week—i.e., a maximum of forty-eight hours per week. Otherwise, employment is given remuneration at overtime rates. A three-quarters of an hour interval is allowed for a meal in the case of shed workers and an hour for those in the field section.

Holiday Provisions.—Every agricultural worker who is employed on a dairy farm for not less than four weeks continuously is to be allowed a holiday on full pay plus an amount equal to the full allowance for board and lodging. The duration of the holiday is to be not less than seven days in the aggregate for every twelve weeks of employment, and a proportionate period of employment. If a regular weekly half-holiday commencing at noon is allowed, a holiday of fourteen days a year (or proportionate duration for a lesser period of employment) will be regarded as sufficient compliance with the Act. The provisions of the Annual Holidays Act 1944 apply generally to agricultural workers. The following specific conditions pertain, however, in respect of workers on farms and stations: farm workers are entitled to seven statutory holidays, Anzac Day, and Anniversary Day, or days in lieu thereof; twelve working days' annual leave on full pay, with a proportionate allowance for service of less than one year; and nineteen days to be taken in half days or at such times as shall be mutually agreed between the employer and the worker; while the sum total of all three classes is not to be less than forty days in each year. Orchard workers are allowed ten days, and workers in the tobacco industry (field section) nine days, while workers in market gardens are allowed eight days on full pay in addition to normal annual holidays.

Minimum Rates of Pay.—By the principal Act minimum weekly rates of pay were prescribed for workers on dairy farms. The Act fixed the rates to operate from 1 October 1936 (the date the Act came into force) until 31 July 1937, and subsequent rates of pay were to be fixed by Orders in Council. In fixing such rates the guaranteed prices paid in respect of primary produce were to be taken into account, but later rates were not to be lower than those fixed by the Act. The 1954 minimum rate is £9 5s. per week, increased by £1 15s. per week if the worker is not provided with board and lodging by the employer. This rate is taken to include allowance for work done at weekends and on holidays as part of the normal week's work. Minimum rates of pay for casual workers are contained in all the extension orders made so far. At present (February 1954) the minimum rate for workers in casual employment and for permanent adult male workers on tobacco farms amounts to 4s. 9d. per hour, with lesser rates for male and female workers according to specified ages, and for harvesters on farms 4s. 8/6d. per hour with rations. In the case of workers on farms and stations for whom the hours of work are not definitely laid down, the rates applicable are given in the Agricultural Workers (Farms and Stations) Extension Order 1952, Amendment No. 1, the minimum rate for an adult male worker being £7 12s. per week, increased by £1 15s. per week if the worker is not provided with board and lodging by the employer, or by £1 7s. 6d. per week if provided with only lodging or free house. The minimum rate of wages for adult males permanently employed in orchards is prescribed in the Agricultural Workers (Orchardists) Extension Order 1952, Amendment No. 1, at £9 12s. 6d. The corresponding rate for workers in market gardens provided for in the 1954 extension order is £10 1s.

Restrictions on Employment.—No child under the age of fifteen years may be employed for hire on a dairy farm or in market gardens except for the harvesting of peas, beans, tomatoes, and soft fruits.

Health and Welfare Provisions.—The sections of the Act in relation to the accommodation of agricultural workers lay down definite requirements for the comfort of such workers, and Inspectors of Factories have power to inspect the accommodation and to require that improvements be made where necessary. In the various extension orders made under the authority of the principal Act, regulations are made dealing explicitly with questions of accommodation, sanitation, ventilation, etc. A number of orders also prohibit the lifting of excess weights by females.

Other Provisions.—Provision exists for the employment of "under-rate" workers with the consent of the Inspector of Factories. An amendment to the main Act made by a section in the Statutes Revision Act 1936 permits the Inspector to apply the under-rate provisions in respect both of money wages and of the amount (if any) payable in lieu of board and lodging in cases of female workers employed on farms. This amendment is of considerable importance, since the employment of women workers for short periods of the day—notably at milking time—is common on dairy farms. Regulations governing the employment of "under-rate" workers are included in all the current extension orders.

INDUSTRIAL CONCILIATION AND ARBITRATION LEGISLATION.—The working conditions outlined in the preceding pages are those contained in some specific statute or regulations made thereunder. However, for a large proportion (approximately one-third) of the labour force, the determining factor is the series of awards and agreements issued by the Court of Arbitration under the authority of the Industrial Conciliation and Arbitration Act 1925 and amendments. The number of awards and agreements in force is quite large—582 at 31 March 1953—and as each is subject to individual negotiation by the unions or associations concerned during its construction it is evident that possible variations preclude any systematic treatment here of the provisions of such a large number.

The 1936 amendment to the principal Act stated that where it is deemed practicable the Court must fix the maximum hours of work per week (exclusive of overtime) at forty, while existing awards could be reviewed to this end on application. At present the provision of a forty-hour week is quite general. Included in the respective awards and agreements are provisions covering the hours of work, overtime, holidays, safety, health, and welfare. Rates of remuneration, subject particularly in the lower limits to the more widely applicable decisions covering the basic wage, general orders, standard wage pronouncements, and minimum wages, are also decided and incorporated in the relevant award or agreement.

It will be realized from the above comments that for information on the actual working conditions governing employment in any particular industrial activity, reference must be made to the award or agreement applicable.

LEGISLATION GOVERNING WORKING CONDITIONS IN THE VARIOUS BRANCHES OF THE GOVERNMENT SERVICE.—The principal measures which are concerned with the majority of persons employed either directly or indirectly by the State and which have reference to their working conditions are given in the succeeding paragraphs.

The Public Service Act 1912, as amended by the Public Service Amendment Act 1946, provided for the control of the Public Service by a Commission as from 1 November 1946. Included in the functions of the Commission are the control of recruitment, maintenance of discipline and of a fair and efficient system of promotion, and also the regulation of a variety of points connected with personnel control—e.g., leave, hours of work, payment of allowances, etc.

The Government Service Tribunal Act 1948 provided for the establishment of a tribunal with functions, in relation to the remuneration and conditions of service of employees, of making (a) principal and other orders, and (b) recommendations to the Prime Minister on any matters other than those contained in the principal orders.

The Government Railways Act 1949, a consolidation measure, furnishes the legislative framework for determination of the working conditions of railway employees. The 1944 amendment established the Government Railways Industrial Tribunal, the principal functions of which are to prescribe scales of salaries and rates of wages; conditions in regard to hours of work, overtime, etc.; and terms and conditions in respect of leave of absence, railway travel concessions, etc. The Government Railways (Staff) Regulations 1953 are also of relevance in this connection.

Working conditions for Post and Telegraph Department employees are determined by the administrative authority, the Postmaster-General and Minister of Telegraphs, with the Director-General as executive head. Power is vested in the Minister by virtue of the Post and Telegraph Act 1928, while the 1944 amendment established a Post and Telegraph Staff Tribunal whose function it is to make recommendations to the Minister on such matters as may be referred to it by the Minister, the Director-General, or the New Zealand Post and Telegraph Association (Incorporated).

Other legislative enactments which apply to the relevant sections of General Government employees are as follows: members of the Police Force are governed by the Police Force Act 1947, which consolidated and amended the 1913 Act of the same title and its amendments. The three fighting Services are controlled at present by the Army Act 1950, the Naval Defence Act 1913, and the Royal New Zealand Air Force Act 1950.

The Education Act 1914 and later amendments provide the legislative background authorizing, either by regulation or through the agency of Education Boards, the determination of the conditions of employment, pay, leave of absence, etc., for the members of the teaching profession.

LEGISLATIVE PROVISION FOR CERTAIN OTHER GROUPS.—In 1948 the Hospitals Amendment Act was passed which altered the title of the principal Act by omitting the words “and Charitable Institutions.” In consequence, the provisions relating to working conditions of Hospital Board employees such as nurses, etc., will be found in the Hospitals Act 1926 and its amendments, while the Hospital Employment Regulations 1952 bear directly on these matters.

Before concluding this subsection reference must be made to two further groups of workers. The first of these consists of public-works employees, while the other comprises those concerned with waterfront work.

In a statement of public-works policy laid before Parliament in 1936 the Government's policy in relation to public-works employees was outlined. An agreement was drawn up dating from 1 June 1936, the main provisions of which were embodied in subsequent agreements, although subjected to amendment and revision from time to time to meet changing conditions. With the termination of the last agreement in March 1949 the Government Service Tribunal, established under the Government Service Tribunal Act 1948, became the authority for determination of rates of remuneration and working conditions generally for public-works employees.

The Waterfront Industry Emergency Regulations 1946, as later amended, established two bodies to provide for the more efficient control of waterside work. The superior of these two—viz., the Waterfront Industry Authority—was charged with deciding the conditions under which any persons could be employed for waterside work, the terms of any such employment, including remuneration, holidays, guaranteed minimum payment, etc., whereas the subordinate authority, known as the Waterfront Industry Commission, was more concerned with the day-to-day details of administration. In particular, the Commission could not issue or amend any order prescribing any conditions or terms of employment which were of general application, except in accordance with a decision or direction from the Authority or as a result of a unanimous resolution of the Commission. Appeals from decisions or orders of the Commission were determined by the Authority.

The above position was relevant up to the commencement of the waterfront strike in February 1951. Commission control was suspended on 20 February, and on the following day the Government issued a Proclamation under the Public Safety Conservation Act 1932 declaring a state of emergency. Shortly afterwards, the Waterfront Strike Emergency Regulations were gazetted, giving powers to ensure the observance of law and order, to prevent picketing, threats, and intimidation, to employ Service labour on the waterfront, and to maintain essential supplies and services to the community. After the termination of the strike and pending the report of the Royal Commission on the waterfront industry, the Government announced that the Commission form of control was to be continued through Post Conciliation Committees, the Waterfront Industry Commission, with administrative functions only, and the Waterfront Industry Tribunal, which was to be a non-representative body to decide disputes and to determine appeals against decisions of Post Conciliation Committees. Amending regulations (the Waterfront Industry Emergency Regulations 1946, Amendment No. 10), prescribing the powers and functions of these bodies, were gazetted in 1951.

The 1946 regulations were revoked by the Waterfront Industry Act 1953, which combined closely the provisions of the regulations. The Waterfront Industry Commission, the Waterfront Industry Tribunal, and the Post Conciliation Committees were continued in force, while the Act also provided for Combined Committees and for National Conciliation Committees. Provision was also made for a National Amenities Committee and for Post Amenities Committees, with functions relating to amenities for waterside workers.

38 C—WAGES AND WAGE-RATE LEGISLATION; STABILIZATION

WAGES AND WAGE RATES: GENERAL.—The amounts of wage rates generally have been influenced largely by the rates specified for individual industries and occupations in awards and industrial agreements registered under the Industrial Conciliation and Arbitration Act. As mentioned previously, certain classes of workers for many years had no legal protection in the matter of wage rates; while, again, until the passing of the Shops and Offices Amendment Act 1936, many classes of office workers were in a similar position.

More than one criterion has been employed in the derivation of minimum rates of pay. Changes in the cost of living have been taken into account at certain times; on some occasions family considerations have entered into the determination; while the size of the working population covered by the minimum-rate provisions differs appreciably according to the particular variant of minimum rate or wage considered.

For the convenience of the reader the essential differences between the various expressions of the minimum wage rates are here summarized. The basic wage (a defined amount) was intended to enable a man to maintain a wife and three children in a reasonable standard of comfort. As prescribed by the Industrial Conciliation and Arbitration Court in a general order in 1936, the basic wage became a minimum wage for all workers governed by awards. Standard rates or standard wage pronouncements prescribe basic rates (not amounts) for different grades of labour—e.g., skilled, semi-skilled, or unskilled workers—for use as general principles governing the construction of award rates. There is no automatic application to awards, each being amended individually on application, or on the Court's own motion, or on a fresh award being made. General orders, on the other hand, have the effect of amending all award rates simultaneously as from the date specified in the order. The Minimum Wage Act 1945 prescribes minimum amounts of wages for adult males and females, either directly in the Act or since 1952 by Order in Council thereafter, but these differ from the basic wage, which in effect they have superseded, in that no reference is made to the maintenance of any defined standard in the former. An important feature of the 1945 minimum wage legislation is the much wider section of the working population to which its provisions relate. The minimum wages specified therein apply whether an award exists or not, and also notwithstanding anything contained in any award.

Against the background of these general remarks it is now intended to survey each of the various forms of minimum wage rates.

Basic Wage.—The New Zealand Court of Arbitration functioned for many years before the question of a basic wage was specifically dealt with by the Court. (It is of interest at this point to mention that a basic wage was brought into operation by the Federal Arbitration Court in Australia in 1907.) The Industrial Conciliation and Arbitration Amendment Act 1956, *inter alia*, requires the Court of Arbitration to fix basic wages for adult male and female workers. Orders of the Court made to this end may be amended at not less than six-monthly intervals by a subsequent general order. The basic wage for adult male workers is required to be fixed at a weekly sum which, in the opinion of the Court, be sufficient to maintain a man, wife, and three children in a fair and reasonable standard of comfort. A general order fixing basic wages for adult male and female workers was issued by the Court of Arbitration on 2 November 1936. The weekly amounts were fixed at £3 16s. for adult male workers and at £1 16s. for adult female workers. The basic wage applies (as is absolute minimum) to all workers twenty-one years of age and over (excepting casual workers and those working under apprenticeship contracts) the conditions of whose employment are fixed by any award or industrial agreement. The basic wage, still nominally in force, although in effect superseded by the minimum wage, has not up to the present time (February 1954) come up for review by the Court.

Minimum Wage Act.—The Minimum Wage Act 1945, as stated earlier, makes provision for a minimum wage for all workers of twenty-one years of age and upwards with certain minor exceptions, notwithstanding anything to the contrary contained in any enactment, award, industrial agreement, or contract of service. A contrast may here be drawn between the procedure adopted in the case of the minimum wage with that pertaining in regard to the basic wage or standard rates of wages. The former is directly stated in legislation, while the latter appear through the medium of the Court of Arbitration.

The minimum wage prescribed in the Act or by Order in Council under the Act may be amended from time to time as fresh pronouncements of standard rates or general orders are made if it is desired to preserve a balance between minimum wages and such rates of wages. In this reference it will be noted that the minimum wage for males is set at a rate which is lower than the standard rate for unskilled labour.

The Act came into force on 1 April 1946. Since that date a Minimum Wage Amendment Act was passed in each year except 1948, the 1952 amendment authorizing minimum wages to be prescribed by Order in Council. The prescribed minima operating from 15 December 1953 are given below, while those in force during the earlier periods are also shown.

Category	1 April 1946 to 30 Nov. 1947				1 Dec. 1947 to 31 Aug. 1949				1 Sept. 1949 to 31 Aug. 1950				1 Sept. 1950 to 31 Sept. 1951				1 Aug. 1951 to 30 Sept. 1952				1 Oct. 1952 to 14 Dec. 1953				15 Dec. 1953 Onwards					
	£	s.	d.	¢	£	s.	d.	¢	£	s.	d.	¢	£	s.	d.	¢	£	s.	d.	¢	£	s.	d.	¢	£	s.	d.	¢		
Males—																														
Paid by hour or by piecework	0	2	9	0	3	0	0	3	3	0	3	5	0	3	9	0	4	1	0	4	1	0	4	6						
Paid by day	1	2	0	1	4	0	1	6	0	1	7	4	1	10	0	1	12	8	1	16	0									
Otherwise (per week)	5	5	0	5	15	0	6	5	0	6	11	8	7	5	0	7	18	4	8	15	0									
Females—																														
Paid by hour or by piecework	0	1	8	0	1	11	0	2	2	0	2	3½	0	2	6	0	2	9	0	3	0									
Paid by day	0	13	4	0	15	4	0	17	4	0	18	4	1	0	0	1	2	0	1	4	0									
Otherwise (per week)	3	3	0	3	13	0	4	3	0	4	8	0	4	16	4	5	6	4	5	16	4									

Standard Rates of Wages.—Under the War Legislation and Statute Law Amendment Act 1918 the Court was required to review on application existing awards and industrial agreements, taking into consideration, *inter alia*, changes in the cost of living. The Court in April 1919 made a pronouncement fixing, in effect, standard rates of wages for skilled, semi-skilled, and unskilled workers. No definite family unit was stated as the basis on which these standard rates were calculated, the minimum pre-war award rates for unskilled labour, with appropriate adjustment, being apparently used as a base. A cost-of-living bonus, varied at half-yearly intervals in sympathy with movements in the cost of living, was added to these standard rates. New rates were fixed in 1920. In September 1925 a further pronouncement was made by the Court. The legislation by which the Court was empowered to make general orders having expired, the new rates—which represented an increase on those operating before—were brought into operation as individual awards expired. As in the 1919 pronouncement, no definite family unit was taken as the basis of assessment of the standard rates, which were, in general, stated to be somewhat in excess of 60 per cent above the rates ruling in 1914.

No further pronouncements directly relevant to the subject were made until 1931. The Finance Act of that year empowered the Court of Arbitration to amend, by general order, awards or industrial agreements with respect to rates of remuneration. Rates of remuneration under awards or industrial agreements were reduced by 10 per cent as from 1 June 1931 with certain minor exceptions.

Full or partial restoration of this cut was effected in the case of several individual awards made in 1934 and 1935, while complete restoration was effected in respect of all awards by a section in the Finance Act 1936. This Act went further: it required the restoration as from 1 July 1936 of all cuts in wages and salaries imposed during the depression period, whether the workers concerned were working under a Court of Arbitration award or not. A 1936 amendment to the Industrial Conciliation and Arbitration Act reduced weekly hours from 44 to 40, and maintained the same weekly rates of wages, thus increasing the effective standard rates of wages then applicable.

In September 1937 the Court made a pronouncement on standard wages and again, in March 1945, the Court made a further pronouncement specifying standard rates of wages in accordance with the provisions of the February 1945 amendment to the Economic Stabilization Emergency Regulations 1942.

The 1945 rates were net rates, for the full minimum wage rates would have to take into account in addition the provisions of the two general orders, effective from 12 August 1940 and 7 April 1942 respectively, issued by the Court under the Rates of Wages Emergency Regulations 1940. (The first of these orders awarded a 5-per-cent increase in all rates of remuneration in awards, industrial agreements, etc., while the second authorized a further 5-per-

cent increase subject to certain limitations.)

An application made pursuant to Regulations 39B and 39C of the Economic Stabilization Emergency Regulations 1942 for a pronouncement specifying standard rates of wages, resulted in new standard rates being set out to apply from 1 October 1947. In this case full minimum rates of wages were prescribed, thus eliminating references to the application of the general orders.

In February 1949 two applications for a new standard-wage pronouncement were laid before the Court of Arbitration. The occasion was unique, in that one of the applications was supported by the New Zealand Federation of Labour and the other supported by the New Zealand Employers' Federation. Both were made under Regulation 39B of the Economic Stabilization Emergency Regulations 1942. Before any steps had been taken for the hearing of the applications, a further amendment in February 1949 was made to the Economic Stabilization Emergency Regulations 1942. This amendment redefined the considerations which the Court was to take into account in making a pronouncement on standard rates, and also provided that the new amendment was to apply to every application under the principal regulations that was pending at the time of issue of the amendment. There were other provisions, the effects of which have also been incorporated in the following article on stabilization (refer page 942).

The Court, subsequent to the hearing, made a pronouncement on standard rates of wages on 12 April 1949. It also provided that any consequential amendments to awards, etc., were to date from 1 June 1949.

In this pronouncement the margin between the standard rate for unskilled workers and that for skilled workers was increased from 55s. per hour to 6d. per hour. The reasons given for this increase may be of interest.

Over a number of years the effective margin of the artisan in terms of purchasing power has been steadily declining, while efforts have been made simultaneously to increase the skilled labour force. Measures were being taken to revitalize the apprenticeship system and improve the training of tradesmen, including the inauguration of more comprehensive and exacting trade examinations. In these circumstances it was thought that an improvement in the flat margin for skill should be granted.

A standard wage pronouncement was made by the Court on 12 July 1952 subsequent to the hearing on an application for a general wage order. Amendments to awards, &c., to give effect to the pronouncement were to operate from 1 September 1952. The rates set out in the pronouncement were gross rates (i.e., the effect of the general order increasing rates by 15 per cent from 15 February 1951 has been taken into account). In the amendment of awards and industrial agreements as a result of the 1952 pronouncement the rates for adult female workers were to be increased in general by such an amount as would bring them to a level approximately 10s. per week above the rates operating from 1 June 1949 plus 15 per cent. Rates for junior workers of both sexes were to be adjusted proportionately.

As a result of the general wage order issued in November 1953 the present effective standard hourly rates are—skilled workers 5s. 6d., semi-skilled workers 4s. 10s. 1d., and unskilled workers 4s. 8.65d.

A summary of the standard rate pronouncements listed in the preceding paragraphs is given below.

Class of Worker (Adult Male)	Standard Rates of Wages: Pronouncement of—																									
	Per Hour																									
	1919	1920	1925	1937	1945	1947	1949	1952																		
	s.	d.	¢	s.	d.	¢	s.	d.																		
Skilled workers	1	7½	2	0	2	3½	2	9	0	½	3	7	3	11	5	0										
Semi-skilled workers	1	4½	to	1	8	to	1	11	to	2	5	to	2	8½	to	3	3½	to	3	6	to	4	5	to		
Unskilled workers	1	6	1	10	2	1½	2	7½	2	11	3	5½	3	8½	4	8										

A standard rate pronouncement is not itself a general wage order and has therefore no operative effect. It is merely an indication of the rates of wages up to which the rates prescribed for skilled, semi-skilled, and unskilled workers in a certain number of awards and industrial agreements are likely to be brought by means of individual amendments. They do not, of course, affect those variations in wage rates prescribed in the different awards, etc., which are due to variations in skill required and in working conditions generally in different industries or occupations.

Standard rates of wages can be regarded as serving two purposes. The first is to serve as general principles to which the Court will have reference in the implementation or amendment of existing award rates. The second is that they serve, in effect, as general standard minima for casual labour. They are not necessarily applicable when employment is regular throughout the year.

It should be noted that the Economic Stabilization Regulations 1953 omitted the provision contained in the 1952 regulations empowering the Court of Arbitration to make standard wage pronouncements under those regulations, although the power to amend awards and industrial agreements to give effect to the July 1952 pronouncement was continued.

Award Rates.—Under section 99 of the Industrial Conciliation and Arbitration Act 1925 the Court is empowered to fix minimum rates of pay in individual awards. The nature of award rates is generally undervalued, and as the rates may do away in certain cases where there is no necessity to further elaborate it. A table showing the average minimum weekly wage rates, incorporated in awards for certain occupations, will be found in Section 37 of this issue (pages 905–908).

General Orders.—Cost of living bonuses, by way of what were effectively general orders, were added to standard rates of wages shown earlier as follows: 1919 (19 April) 2d., per hour; 1920 (1 January) 3½d., per hour; 1920 (1 May) 5d., per hour; 1920 (1 May after issue of new standard rates) 3d., per hour; 1920 (1 November) 3½d., per hour; 1922 (15 May) 2½d., per hour; 1922 (4 December) 1½d., per hour; 1923 2d., per hour.

A general order reducing rates of remuneration by 10 per cent (i.e., also reducing the effective 1925 standard rates) was made operative from 8 June 1931. This was later restored by section 15 of the Finance Act 1936. Also in 1936, the basic wage mentioned previously was issued by way of a general order. The Court of Arbitration had power under the Rates of Wages Emergency Regulations 1940 to make general orders amending all awards prescribed in awards as from the dates specified in the orders. Two such orders were made increasing wages as from 12 August 1940 and from 7 April 1942 respectively. As stated earlier, the effect of these orders was taken into account in the 1947 standard wages pronouncement. An amendment made in March 1949 to the Economic Stabilization Emergency Regulations 1942 revoked the Rates of Wages Emergency Regulations 1940. General orders could, however, still be made under the Economic Stabilization Emergency Regulations 1942 until the revoking of the emergency regulations by the Economic Stabilization Regulations 1950. In the latter regulations the former provisions relating to the issue of general orders were retained, while a May 1950 amendment provided for, in effect, the issue of an interim general order. Such an order was to be disregarded for the purpose of determining the date at which any general order made on application should take effect.

An interim order was made by the Court of Arbitration on 10 June 1950 amending all awards and industrial agreements to increase by 5 per cent all rates of remuneration on amounts up to and including £7 per week in the case of adult male workers, and £4½s. in the case of adult female workers and all junior workers.

A further general order, effective from 15 February 1951, revoked the interim order, and increased all rates of remuneration by an amount equal to 15 per cent (not restricted to any fixed amount). This latter increase was in substitution for, and in addition to, the 5-per-cent increase given in the interim order. Certain specified awards were excluded from the operation of the February order, comparable increases having been incorporated in their construction subsequent to the interim order.

A general order of the Court was made on 19 November 1953, but retroactive to 15 September 1953, increasing all award rates by 10 per cent up to certain maxima—adult males, 24s. weekly; adult females, 18s. weekly; and junior workers, 14s. weekly.

Special Provisions Covering Wages of Certain Groups of Workers.—Certain groups of workers have their wages fixed by special authorities. Minimum rates for agricultural workers are prescribed by the Agricultural Workers Act 1936 and the various Extension Orders made pursuant to section 20 of that Act. Rates of remuneration for waterside work are fixed by the Waterfront Industry Tribunal, constituted now under the Waterfront Industry Act 1953. Determination of wages in coal mines lies within the scope of the Coal Mines Council, established under the Coal Mines Council (Emergency Regulations) 1940. Rates of pay for workmen engaged on public-works construction have been determined from 1949 by the Government Service Tribunal and issued in the form of principal orders and other orders by that Tribunal.

Salaries and wages in the railways are, by the Government Railways Act 1949, prescribed by the Government Railways Industrial Tribunal. The legislative authority covering rates of remuneration for employees of the Post and Telegraph Department is contained in the Post and Telegraph Act 1928 and the 1933 amendment, while certain questions may be referred to the Post and Telegraph Staff Tribunal, established by the 1944 amendment to the principal Act.

Public servants in the Professional and Clerical Divisions were paid according to rates prescribed under regulations authorized by section 19 of the Appropriation Act 1920, and those in the General Division according to scales determined by the Public Service Commission (see Public Service Act 1912, section 22). In 1948, however, the Government Service Tribunal Act was passed vesting the Tribunal with powers of making principal and other orders in relation to remuneration.

Pay and allowances for the Armed Services at present are prescribed in regulations under the Army Act 1950, the Naval Defence Act 1913, and the Royal New Zealand Air Force Act 1950. Salary and wage rates for Hospital Board employees are covered by the Hospitals Act 1926 and the Hospital Employment Regulations 1952, as amended. Two other groups of employees may be also mentioned; members of the Police Force coming under the Police Force Act 1947, and finally members of the teaching profession, whose rates of remuneration are generally determined by authority of the Education Act 1914 and amendments.

An interesting innovation made by the Court of Arbitration in 1928 was the award of that year whereby the wages of shearers and other wool-shed hands were fixed at a rate fluctuating with the movement of wool prices as determined by the Government Statistician's index number for export rates of wool. The system did not operate between 1931 and 1933, workers and employers being unable to agree as to rates, though both parties expressed approval of the principle. The award of 1933 contained provision for the resumption of the sliding-scale system. Commencing with an award for the 1948–49 season, a variation was made in the method of calculating the rates of pay for shearers and other wool-shed hands. The new procedure is that rates shall be adjusted proportionately with the movements of an index number to be prepared by the Government Statistician based on average prices realized at New Zealand sales for greasy wool (calculated for June years).

In referring to the general question of wage rates it is relevant to draw attention to the supplementary income which is provided by benefits available under the Social Security Act in certain cases, while the War Pensions Act is of significance also in this connection (see Section 7).

PROTECTION OF WAGES.—Workers' wages were first safeguarded by the Truck Act of 1891, which ensured to workers the payment of their wages in full in coin of the realm. This was followed by a series of Acts—the Contractors and Workmen's Lien Act 1892, the Workmen's Wages Act 1893, the Threshing Machine Owners' Lien Act 1895, the Wages Attachment Act 1895, and the Wages Protection Act 1899—all aimed at making the payment of wages more certain and secure, and at limiting creditors' rights to attach future earnings.

This code was consolidated into the Wages Protection and Contractors' Liens Act of 1908, which operated until it was superseded by the Wages Protection and Contractors' Liens Act 1939. The re-enactment is substantially the same as the 1908 Act except for the omission of several sections relating solely to wages protection, which were largely duplicated by the sections dealing with workers' liens.

Some of the more written provisions of the Act, as it now operates, are set out below.

In the absence of any written agreement to the contrary, wages of manual workers are to be paid at intervals of not more than a week, and of other workers at intervals of not more than a month. The attachment of workers' wages for debt is prohibited except in the case of any surplus over £2 a week or when specific provision is made in any other Act for attachments on a lower minimum. Exceptions are made by the Industrial Conciliation and Arbitration

Act 1925, the Child Welfare Act 1925, and the Destitute Persons Act 1910. The Coal Mines Amendment Act 1941 provides for deduction from wages, with the written consent of the employee, of sums towards repayment of principal or payment of interest, etc., in respect of advances by the mineowner to the worker for the purpose of acquiring a home. Section 7 of the Finance Act 1942 provides for deduction of due amounts from the salary or wages of a taxpayer who has made default in the payment of income tax.

The Act prohibits payment of wages being made in goods (truck) or in any other way than in money or by approved cheque, and also prohibits any stipulation as to how the wages money is to be expended. The truck provisions do not, however, apply where the employer supplies house accommodation, board and lodging, fuel, medical assistance, materials, tools, and the like required for the work, nor to seamen or farm workers.

A contractor, subcontractor, and any worker is entitled to obtain liens on the lands or chattels of the employer upon giving due notice, and the employer must then retain in his hands sufficient of the contract moneys to satisfy and guarantee payment of the claimant's dues, but the total amount recoverable may not exceed the amount due under the contract. In addition, the Act as amended in 1952 directs that the employer or contractor (where a subcontract is entered into) shall retain in his possession, whether or not he has received notice of any lien or charge, a percentage (10 per cent on the first £100,000, and 5 per cent on any amount in excess of £100,000) of so much of the contract price as has for the time being become immediately payable, until thirty-one days have elapsed after the completion of the contract.

In the matter of priority of liens and charges the order is as follows: (1) the claims of workers for wages not exceeding three months' wages and not exceeding £50; (2) the claims of workers for wages not included in the foregoing, and the claims of subcontractors; and (3) the claims of contractors. If notice of a lien or charge is not made before the completion of the contract or within thirty days of the completion, the claim will lose priority as against other liens of its own class, but will come before claims of the succeeding class.

All attachments or assignments granted by any employer or contractor are void against the charges or liens of subcontractors or workers for money due under the contract, except in the case of mortgages on land registered before the liens; in that case the mortgage has priority over the lien. If the mortgage secures any money that is advanced after notice of the lien has been given to the mortgagee, the lien has priority over the mortgage. If, in the case of the death or bankruptcy of a person entitled to a lien or charge, the debt secured by the lien or charge passes to any other person, the right to the lien or charge passes with it.

No deduction from workers' wages may be made for purposes of insurance against compensation for accident.

Liens to be imposed as security for miners' wages or earnings are dealt with under the Mining Act 1926, and the Coal Mines Act 1925.

Wages are further safeguarded by certain sections of the Bankruptcy Act, which give priority of payment for wages or salaries of workers (with certain limitations as to amount and period) in preference to certain other debts, and since the passing of the Bankruptcy Amendment Act 1927 wages take precedence over rents. Similarly, under the Companies Act, wages (with the same limitations as under the Bankruptcy Act) are a first claim on the assets of a company being wound up. Under the Workers' Compensation Amendment Act 1936 compensation payments rank with wages as a first charge on the assets of a bankrupt.

Various individual labour laws contain provisions with the special intent of protecting the payment of wages of the workers to whom such legislation applies.

STABILIZATION—Stabilization as an explicitly stated object of policy came to the forefront early in the Second World War. It had long been realized that in wartime the normal supply or flow of goods would be restricted, particularly so in the case of imports, but also in some degree in the field of local production. This factor, reinforced by others such as the progressive withdrawal of elements of the labour force for service with the Armed Forces, changes in the extent and character of industrial activity and in the labour force generally, and the necessity of financing a costly war, would inevitably exert an upward pressure on the wage and price structures of the country. It was equally necessary to limit or confine upward movements in these structures in so far as this procedure could be made effective or practicable. Measures to this effect were authorized, evolving into a fairly comprehensive system of regulations covering the general fields of price control, wages stabilization, rent stabilization, direction of man-power, subsidies, etc. After the close of war some of these measures were dispensed with, while others were retained and relieved of their emergency status by further legislation.

While wages stabilization is the main theme of the following paragraphs, other aspects of stabilization will be found elsewhere in this issue (rents, Section 38G; prices, Section 36; and subsidies, Sections 19 and 36).

The initial legislative step in the control of wages and remuneration was the gazetting of the Rates of Wages Emergency Regulations 1940, which with its amendments were revoked by the 1949 amendment to the Economic Stabilization Emergency Regulations 1942. The 1940 regulations provided that the Court of Arbitration from time to time, on application, might amend by general order the provisions of all awards and industrial agreements, but that in making such a general order the Court was to take into account certain economic conditions. As these qualifications were largely superseded by the Economic Stabilization Emergency Regulations issued in 1942, it will be more profitable to proceed to a survey of the latter.

In regard to the Economic Stabilization Emergency Regulations 1942, as subsequently amended up to and including the amendment of February 1949, the main features of importance may be summarized as follows. The regulations provided for the stabilization of all rates of wages and remuneration at the levels ruling on 15 November 1942. Basic rates of remuneration were defined as the actual rates as at 15 December 1942, or as determined by the Wages Commissioner or Commissioners (formerly Conciliation Commissioner) appointed under the regulations. These basic rates were not to be exceeded except with the approval of the Wages Commissioner, which might be granted wholly or in part on the following grounds:

- That the person was employed in any additional position, employment, duties, or work, or in work involving additional risk to life or health.
- That an increase was necessary for removal of anomalies.
- That when the basic rate was determined, remuneration was being paid at an abnormally low rate or no remuneration was being paid.

A special wartime price index was provided for the purpose of recording, as from 15 December 1942, any increase or reduction in the prices of such commodities and services (including rents) as the Minister of Industries and Commerce might direct. In the event of any movement, amounting to 2½ per cent initially and 5 per cent in subsequent variations in the general level of prices included in the wartime price index, the Court of Arbitration was enjoined to issue a general order adjusting rates of remuneration similarly by an amount equivalent to the variation disclosed by the index. Apart from the adjustment of strictly defined anomalies, these regulations limited the powers of the Court in dealing with wages to the issue of general orders as outlined above. Any change specified in such a general order was also applicable to any case wherein the actual rate of remuneration exceeded that to which the worker was entitled under an award.

An important regulation, issued in 1944, provided that the Court, in exercising its functions in relation to the making or amendment of awards or apprenticeship orders, or in approving any industrial agreement, should have regard to the general purpose of these regulations. A similar provision covered applications for revised tool and special clothing allowances, etc. In determining award rates a clause, deleted in 1947, provided that no regard should be had to fluctuations in the cost of living. This factor came under those conditions to be taken into account in the making of general orders.

The February 1945 amendment gave the Court power to amend existing awards and agreements so as to adjust disparities in wage levels—i.e., to restore or preserve proper relationships with other rates of remuneration. Also in February 1945, the Court was empowered from time to time of its own motion or on application of any industrial union or association to make pronouncements specifying standard rates of wages for skilled, semi-skilled, and unskilled workers.

In June 1945 a further amendment to the regulations was issued, and in making any general order regarding wages the Court was required to take into account—

- the economic and financial conditions affecting trade and industry in New Zealand.
- Any rise or fall in the cost of living as indicated by the wartime price index since 15 December 1942.
- Any increase or reduction in rates of remuneration since 15 December 1942.
- Any other consideration that the Court deemed relevant.

Power to amend awards and industrial agreements during their currency in accordance with standard wage pronouncements, regard being paid to any increases made since 1945 and also to the balance with other rates, was given by the 1947 amendment to the regulations.

The Economic Stabilization Emergency Regulations 1942 were amended in several important respects in February 1949. This amendment revoked the Rates of Wages Emergency Regulations 1940 and subsequent amendments, and also amended the principal regulations chiefly in the following ways. To assist in the furtherance of the objects of stabilization generally, the regulations laid down that the Court should take into consideration the following conditions in making any pronouncement or general order:

- The general purpose of the regulations.
- Any rise or fall in retail prices as indicated by any index published by the Government Statistician.
- The economic conditions affecting finance, trade, and industry in New Zealand.
- Relative movements in the incomes of different sections of the community.
- All other considerations that the Court deemed relevant.

On application the Court could also amend, by general order, those provisions of all awards and industrial agreements for the time being in force which determined the rates of remuneration.

Provision was also made for a general order to be made on any application for a standard wage pronouncement, and *vice versa*. In either case no general order could be made to take effect, or any pronouncement be made, less than one year from the date of a previous order becoming effective or of a previous pronouncement having been made.

The condition (b) quoted above was substituted by the February 1949 amendment for the earlier one requiring an index of prices, known as the Wartime Price Index, to be prepared and published quarterly for the purposes of the regulations.

Most of the features outlined were similarly applicable to apprenticeship orders, except where these were already covered by reason of the fact that rates of remuneration of apprentices might in some cases be fixed as proportions of the rates fixed from time to time for journeymen.

In pursuance of the policy of stabilization, and probably indicative of its importance in the post-war era, the passing of the Economic Stabilization Act 1948 is of significance. The general purpose of this Act (as of former emergency regulations also) is to promote the economic stability of New Zealand. In addition to the administration of the Act the Minister of Industries and Commerce is charged with the general function of doing whatever is considered necessary for the general purpose of this Act, and in particular for the stabilization, control, and adjustment of prices of goods and services, rents, other costs, and rates of wages, salaries, and other incomes. Authority for the appointment of a Director of Stabilization was also given. The Act further provided for the establishment of the Economic Stabilization Commission with the principal function of making recommendations, after inquiry and investigation, in relation to the economic stabilization of New Zealand and the functions of the Minister under the Act. There are at present (February 1954) no appointed members of the Commission, its functions being

discharged by the Minister in Charge of Stabilization, except that those functions of the Commission relating to the marketing and prices of primary products are now dealt with by the Marketing Advisory Council, which reports to the Minister of Agriculture.

By Order in Council, stabilization regulations may be made from time to time for giving full effect to the provisions and administration of the Act, including regulations for all, or any of the following purposes:

- Regulating the marketing of any goods or classes of goods for the general purpose of the Act.
- Equalizing, as far as possible, the net returns received or payable in respect of any goods or classes of goods, and for that purpose imposing levies on any goods or classes of goods.
- Recovery of subsidies paid out of public moneys in respect of any goods or classes of goods.
- Providing for the appointment of officers and committees and other bodies, and defining their functions and powers.

From the point of view of this Section it was of interest to note that certain of the Economic Stabilization Emergency Regulations 1942 (as summarized earlier) were continued in force as stabilization regulations. The necessary powers were also given enabling information required for the purposes of the Act or any stabilization regulation to be obtained, and also for the prescription of offences and penalties.

The 1942 emergency regulations were, however, revoked by the Economic Stabilization Regulations 1950, the general tenor of which is contained in the following paragraphs, together with any significant differences from the provisions of the earlier emergency regulations.

In exercising its powers in relation to the making or amendment of awards or apprenticeship orders, or the approval of industrial agreements, the Court of Arbitration was to have regard to the general purpose of the Economic Stabilization Act 1948. The former provision requiring it to have regard so a proper relationship between the rates of remuneration of different classes of workers was omitted, though, of course, this factor might form one of the considerations that could be taken into account by the Court. The control of maximum rates of remuneration was abolished, while the application of a general order to rates of remuneration paid in excess of award rates became no longer automatic.

The provisions as to standard wage pronouncements by the Court of Arbitration in the earlier emergency regulations were omitted from the 1950 stabilization regulations, although there was no restriction on the inherent power that the Court has always had to make such pronouncements at any time.

The Court was empowered to make general orders, of its own motion or on application, amending those provisions of all awards and industrial agreements in force relating to rates of remuneration. No general order made on application was to take effect less than one year after the date on which any previous general order had taken effect, but the Court could make a general order of its own motion at any time. The former provisions excluding special classes of workers from general orders, and application of such orders to apprentices, were retained, as was the provision requiring industrial agreements to be filed after first being approved by the Court.

In making a general order the conditions which the Court were required to take into account were substantially the same as those set out on page 942 under the 1942 regulations, except that condition (c) was worded "The general purpose of the Economic Stabilization Act 1948." When fixing tool, clothing, and vehicle allowances the Court was to have regard to changes in costs.

A May 1950 amendment to the regulations made provision for the issue of an interim general order by the Court of its own motion, which for the purpose of determining the time at which any general order made on application was to take effect could be disregarded, although adjustment of rates in a final order was not retrospective in operation.

The 1950 regulations were revoked and replaced by the Economic Stabilization Regulations 1952, which came into force on 28 February 1952. These regulations, as affected by the December 1952 amendment, included the following provisions:

- The Court of Arbitration, for the purpose of making or amending awards, or apprenticeship orders, or of approval of any industrial agreement, was to have regard to the general purpose of the Economic Stabilization Act 1948; and when fixing tool, clothing, footwear, motor vehicle, or bicycle allowances was to have regard also to any increases or reduction in costs (inclusive of maintenance, replacement, etc., costs) of these items. This provision in its entirety was deleted by the December 1952 amendment to the regulations.
- No industrial agreement was to come into force until after having been approved and filed. This requirement was also deleted by the December 1952 amendment.
- The Court was enabled to make general orders amending the rates of remuneration in all awards and industrial agreements, either of its own motion or on the application of any industrial union or association of employers or workers for a general order or for a standard wage pronouncement. The Court might exclude from the scope of the general order such portion of the remuneration in each week of the workers affected by the order as exceeds an amount specified by the Court; this amount might be varied in the case of females and junior workers respectively.
- The Court was empowered to make pronouncements specifying standard rates of wages for skilled, semi-skilled, and unskilled workers, either of its own motion or on the application of any industrial union or association of employers or workers for a standard wage pronouncement or for a general order. Power was given to the Court to amend awards and industrial agreements and its own motion to give effect to any standard wage pronouncement and to make the amendments retrospective to the date of the pronouncement.
- A general order might be made to take effect or a standard wage pronouncement might be made not less than six months after the date of any previous general order or standard wage pronouncement.
- Power was given to exclude any specified class or section of workers from the operation of a general order, or to amend provisions of any award or industrial agreement in relation to a standard wage pronouncement, in such cases due regard having been made to any increases in the rates of remuneration granted by the Court to the workers affected since the date of the last preceding order or pronouncement. Where the Court has exercised this power of its own motion it might subsequently on application, and within twenty-one days in that behalf, make such further order or amendment as it considered just and equitable in relation thereto.
- The conditions which the Court was required to take into account in making any general order or standard wage pronouncement were as follows:
 - The general purpose of the Stabilization Act 1948.
 - Any rise or fall in retail prices as indicated by any index published by the Government Statistician.
 - The economic conditions affecting finance, trade and industry in New Zealand.
 - Relevant movements in the incomes of different sections of the community.
 - All other considerations that the Court deemed relevant.
- (viii) Powers set out in relation to general orders and standard wage pronouncements were extended to apprenticeship orders, unless they applied automatically to any such orders by reason of the fact that rates of remuneration of apprentices were fixed by the apprenticeship order or as proportions of the rates from time to time fixed for journeymen. (ix) The regulations provided that rates of remuneration by reference to which the scope of an award or industrial agreement was fixed were to be automatically increased or reduced in conformity with any general order or standard wage pronouncement.

The 1952 regulations covered any application already made for a general order under the revoked regulations.

The Economic Stabilization Emergency Regulations 1952 were later amended so as to enable representatives of the parties bound by orders of the Government Service Tribunal, the Government Railways Industrial Tribunal, and the Waterfront Industry Tribunal to appear and make submissions on the hearing by the Court of Arbitration of applications for general orders increasing or reducing rates of remuneration, or of applications for standard wage pronouncements.

With the revocation of the 1952 regulations by the issue in May 1953 of the Economic Stabilization Regulations 1953, certain changes in content, as outlined below, were made.

The principal features by which the 1953 regulations differ from those made in 1952 are (a) in the making of a general order the former specific provision requiring the Court of Arbitration to take into account the general purpose of the Economic Stabilization Act 1948 is omitted, and a new provision is inserted requiring the Court to take into account any increase or decrease in the volume and the value of production in primary and secondary industries of New Zealand; (b) the regulations no longer empower the Court to make standard wage pronouncements under these regulations, but the power to amend awards and industrial agreements to give effect to the pronouncement made on 12 July 1952 is continued.

The 1953 regulations provide as follows: the existing provision is repealed enabling the Court to make general orders amending the rates of remuneration in all awards and agreements, subject to the alterations made in the preceding paragraph; the existing provisions are repeated as to excluding special classes of workers from general orders, with the time for applying to the Court being extended from twenty-one days to twenty-eight days; the Court is enabled to amend awards and industrial agreements to give effect to the standard wage pronouncement of 12 July 1952, with power to make the amendments retrospective to 1 September 1952; the existing provisions as to the application of general orders to apprentices are repeated; and finally there is a provision that the rates of remuneration by reference to which the scope of an award or industrial agreement is fixed are to be automatically increased or reduced in conformity with any general order, and may be correspondingly increased in conformity with the standard wage pronouncement of 12 July 1952.

An amendment to these regulations made later in the month of May 1953 provided that the Court of Arbitration, in taking into account the prescribed matters in the making of a general order, is not to be restricted to events occurring since the date of the last standard wage pronouncement or general order, but may consider events that occurred before that date and events likely to occur in the future.

An amendment in September 1953 gave the Court a discretionary power to fix a date for the commencement of its general order before the date on which it is made, but not earlier than 15 September 1953; this regulation related to the application for a general order then pending in the Court of Arbitration.

38 D—LABOUR DISPUTES LEGISLATION

LABOUR DISPUTES.—Trade unionists were early protected by the Trade Unions Act of 1878 from prosecution for conspiracy by reason merely that the purposes of the trade unions were in restraint of trade. They were further protected by the Conspiracy Law Amendment Act of 1894, which laid down that any act by a union in furtherance of a trade dispute should not be deemed unlawful so as to render such persons liable to criminal prosecution for conspiracy, if such act committed by one person would not be deemed unlawful. This removed a very serious handicap under which unionists up to that time had suffered.

Industrial Conciliation and Arbitration Act.—The original Industrial Conciliation and Arbitration Act was placed on the New Zealand statute-book in 1894. Its object was to encourage the formation of industrial unions and associations, and to facilitate the settlement of industrial disputes by conciliation and arbitration. It provided for the registration as "industrial unions" of societies of workers or employers in the various industrial districts, and as "industrial associations" of any council or other body representing any number of such unions; for the making of industrial agreements pursuant to the Act, and the filing of such in the Supreme Court; for the formation of industrial districts, the election of Boards of Conciliation, and the setting up of a Court of Arbitration.

In 1898 an amendment was passed empowering the Court in its awards to prescribe minimum rates of wages, with special provision for a lower rate being paid in the case of workers unable to earn the prescribed minimum. An important amendment passed in 1903 prohibited any employer, worker, union of workers, or union of employers from taking proceedings to defeat any of the provisions of an award during its currency. It forbade an employer to dismiss any employee merely because he happened to be entitled to the benefit of an award or merely because he was a member of a union. Under the present law dismissal, or prejudicial alteration of position, of an employee who within the preceding twelve months had acted in any of certain specified capacities, or was entitled to or had claimed certain benefits, renders the employer liable to a penalty unless he proves that the dismissal or alteration of position was due to some other reason. An industrial union of workers may take action for a penalty in this connection.

By the 1905 amendment the constitution of Conciliation Boards was altered to provide for the appointment of four Conciliation Commissioners, whose duty it is to call together representatives of employers and employees in the event of a dispute arising, and to sit with these representatives as a Conciliation Council in an endeavour to effect a settlement. The decision of the Council is not binding, but disputes must be referred to a Council before they may be referred to the Court of Arbitration. A further amendment in 1911 provided that recommendations of Conciliation Councils become in effect industrial agreements if none of the parties to a dispute disagree with such recommendations.

The law as it existed in 1925 was consolidated in that year, previous consolidations having been effected in 1900, 1905, and 1908.

In 1927 a Bill was introduced into Parliament to exclude from the jurisdiction of the Court of Arbitration the farming industry and certain associated industries. The Bill met with considerable opposition and was not proceeded with. However, an amending Act was passed which provided that no award relating to any agricultural, pastoral, or dairying operations, or to any other work effected on a farm, or to the manufacture or production of butter, cheese, or other milk products, should be made before 1 September 1928. The provisions of the amendment of 1927 were re-enacted in 1928, another amendment extending for twelve months the period during which awards in the industries mentioned were not to be made, and also providing that no awards in these industries were to be altered or amended in the meantime without the consent of all parties concerned. The provisions referred to lapsed on 1 September 1929.

A second amendment passed in 1928 permits of industrial agreements and (with the consent of the parties concerned) awards being made for or extended to a term of five years. This amendment also allows of an award or industrial agreement, in lieu of prescribing minimum rates of wages, prescribing a method or basis for calculating minimum rates.

As a result of depression conditions the Court was empowered by the Finance Act 1931 to amend by general order awards or industrial agreements in respect of rates of wages, though power was given for the exclusion of any class or section of workers from the operation of a general order. In the next year compulsory arbitration was abolished; conciliation was still compulsory, but disputes could be referred to the Court only by mutual consent. Provision was also made for the review of existing awards.

The Industrial Conciliation and Arbitration Amendment Act 1936 restored the full jurisdiction of the Court of Arbitration, and also made several other amendments, the more important of which, as amended in later years up to and including 1953, are summarized below:

The Court is required to fix basic wages for adult male workers based on the needs of a man, wife, and three children, and also a basic wage for adult female workers. It must make general orders prescribing the basic wages which will apply to workers in any industry to which any award or industrial agreement relates. (See previous subsection—Basic Wage, etc.)

Restrictions are imposed on the formation of new unions in districts where a union in respect of the same industry exists; in fact, no such new union may be registered unless with the concurrence of the Minister of Labour. The concurrence of the Minister must first be obtained before any industrial union may alter its rules so as to include in its membership any employers or workers who could already properly belong to another existing industrial union or trade union.

Provision is made for the registration of New Zealand unions covering all existing workers or employers, if all or the majority of district unions concur. In cases where no district union exists a New Zealand union may be formed subject to compliance with the requirements of the principal Act in respect of registration of unions. The existing membership of unions and associations in national organizations such as the Federation of Labour was validated in 1951, with the provision that, in future, applications to join or leave any such organizations are to be made only when approved by a secret postal ballot of the unionists concerned.

All workers who are subject to any award or industrial agreement registered under the Act must become members of a union. It is not lawful for an employer to employ or continue in employment, in any position or employment subject to an award or industrial agreement, any adult person who is not a member and has not been exempted from membership. Provision was made in 1951 for exemption from union membership on religious grounds if the applicant satisfies the Concisicous Objection Committee appointed under the Military Training Act 1949 that his religious objections are genuine, and on payment of the amount equal to the prescribed subscription to the Social Security Fund. (An amendment passed in 1943 provides that, where a person who is obliged to become a member of a union fails to do so, he is deemed to have committed a breach of the award or industrial agreement to which his employment is subject, and is liable to a penalty not exceeding £5 in respect of every such breach.) Non-members may, however, be employed in cases where union membership is limited and there are no union members available.

The Court may confer on union officials the right of entry on employers' premises.

Where it is deemed practicable the Court must fix the maximum hours of work per week (exclusive of overtime) at forty; while the Court could review existing awards to this end on application. The hours in such a review were to be fixed at forty, unless in the opinion of the Court such hours were impracticable. No reduction in weekly pay was to be made in consequence of reduced hours—i.e., the hourly rates were to be increased proportionately. The provisions stated in this paragraph came into operation on 1 September 1936.

By the principal Act the maximum weekly union subscription had been fixed at 1s. This limitation was removed in 1936, but provision was made in 1951 to the effect that rules requiring payment exceeding 1s. a week shall not be valid unless adopted by a majority of the votes at a secret postal ballot of the financial members. A similar proviso is contained in the 1951 amendment in respect of the payment of fees.

The 1947 amendment to the principal Act provides for the appointment of Deputy Judges of the Court of Arbitration. There is a section in the amendment dealing with the question of appeals to the Court from any decision of a Deputy Judge.

The administration of the Industrial Conciliation and Arbitration Act is in the hands of the Department of Labour and Employment, and Inspectors of Factories are charged with the duty of seeing that the provisions of awards and agreements are carried out. The following paragraphs indicate the procedure followed in regard to industrial disputes under the Act:

An industrial union (or association of unions) of workers registered under the Act may cite a union or association of unions of employers, or an employer, or a number of employers, before a Council of Conciliation for the hearing of an industrial dispute before a Commissioner and assessors appointed from either side.

An industrial union (or association of unions) of employers registered under the Act, or an individual employer, or employers, may cite a union of workers in a similar manner. The workers may compel any of their employers to come under the Act; but the employers cannot compel their workers to come under it unless the latter have registered as an industrial union or association thereunder; registration is voluntary.

If a settlement of a dispute is arrived at by the parties in the course of an inquiry held before a Council of Conciliation, the terms of the settlement are set forth as an industrial agreement. Applications for exemption from the terms of the agreement must be made within one month after it has been filed. The Court is empowered to grant or to refuse such applications. Where an agreement applies to the employers employing the majority of workers in the industry to which it relates, the agreement may be made binding on all employers, whether parties or not.

Every such agreement must be executed on behalf of the parties by the assessors representing the parties. If settlement cannot be arrived at before the Conciliation Council the matter is referred to the Court. The Council may at the same time submit a recommendation for the settlement of the dispute; whereupon the parties are notified of such recommendation, and if acceptable to them the recommendation is made an industrial agreement; failing agreement the matter is referred to the Court.

If a dispute comes before the Court, argument is heard upon the matters in debate, and the Court then makes its award, which becomes binding upon the employers specified in the award, upon any employers commencing business in the district subsequently to the date of the award, and upon all persons working for such employers. In all cases where an industrial agreement or accepted recommendation or award is filed, it becomes binding on all the parties. When an award or industrial agreement has been filed, a strike or lockout becomes unlawful. Section 11 of the 1951 amendment provides that (unless the parties otherwise agree) rates of wages specified in an award shall have effect from two months after the date first appointed for the hearing by the Conciliation Council, or where two or more districts are affected, four months after this date, or as from the date of the making of the award, whichever is the earlier, or as from such other date as the Court in its discretion thinks fit after taking into consideration all relevant matters.

Section 35 of the Statutes Amendment Act 1944 stipulates that no industrial dispute shall be referred for settlement to a Council of Conciliation by an industrial union (or association of unions) unless the proposed reference has been approved by resolution by the committee of management of the union or of each of the unions concerned, as the case may be.

The Statutes Amendment Act 1946 (sections 34–37) stipulates that where an application has been made to a Conciliation Commissioner for the hearing of an industrial dispute by a Council of Conciliation the claims made by the applicant may be amended or withdrawn at any time, whether before or during the hearing. Where any industrial dispute has been referred to the Court for settlement, or any application has been made to the Court under the principal Act, the reference or application may be withdrawn by the applicants as any time, whether before or during the hearing.

An important amendment to the Act was passed during the 1939 session. This empowered the Minister of Labour, if he is satisfied that any discontinuance of employment brought about wholly or partly by any industrial union of employers or of workers has caused, or is likely to cause, serious loss or inconvenience, to cancel the registration of the union concerned or to cancel any award or industrial agreement so far as this relates to it.

Section 22 of the Statutes Amendment Act 1948 extended the time within which action may be commenced for recovery of arrears of wages payable under an award or industrial agreement from twelve months to two years.

The 1951 amendment required the rules of an industrial union to provide for the election of officers by secret ballot; empowered the Registrar to refuse to record any rule or amendment on the ground that it is unreasonable or oppressive (the decision may be the subject of an appeal); and contained provisions in respect of disputed elections in unions.

The 1951 amendment also enabled provision to be made in any award or industrial agreement to the effect that any party to a dispute on a matter arising out of the award or agreement but not specifically dealt with therein may require the appointment of a Local Disputes Committee, which will have power to decide the dispute or to refer it to a Conciliation Commissioner. The latter in his discretion can refer the dispute either to a National Disputes Committee, which may be appointed where any award relates to two or more industrial districts or parts thereof, or to the Court of Arbitration. Appeals against the decisions of the Disputes Committees may be made to the Court of Arbitration.

The 1953 amendment provided that where a majority of the workers affected by any industrial dispute under the principal Act are Hospital Board employees, the Director-General of Health is to be a party to the dispute and is to recommend assessors for the employers in the conciliation proceedings. Other sections provide that an award is not to be made affecting Hospital Board employees now affected by regulations unless a majority votes in favour of an award, and for the concurrence of the Minister of Health with industrial agreements in similar circumstances.

New definitions of the terms "strike" and "lockout" were substituted by the 1951 amendment for those given in the principal Act (which apply also for the purposes of the Labour Disputes Investigation Act 1913). A strike now means the act of any number of workers, who are or have been in the employment of the same or of different employers—

- in discontinuing that employment, whether wholly or partially; or
- in breaking their contracts of service; or

c. In refusing or failing after any such discontinuance to resume or return to their employment; or

d. In refusing or failing to accept engagement for any work in which they are usually employed; or

e. In reducing their normal output or their normal rate of work—

the act being due to any combination, agreement, common understanding, or concerted action, whether express or implied, made or entered into by any workers—

f. With intent to compel or induce any such employer to agree to terms of employment or comply with any demands made by the said or any other workers; or

g. With intent to cause loss or inconvenience to any such employer in the conduct of his business; or

h. With intent to incite, aid, abet, instigate, or procure any other strike; or

i. With intent to assist workers in the employment of any other employer to compel or induce that employer to agree to terms of employment or comply with any demands upon him by any workers.

A lockout means the act of an employer—

a. In closing his place of business, or suspending or discontinuing his business in any branch thereof; or

b. In discontinuing the employment of any workers, whether wholly or partially; or

c. In breaking his contracts of service; or

d. In refusing or failing to engage workers for any work for which he usually employs workers—

with intent—

e. To compel or induce any workers to agree to terms of employment or comply with any demands made upon them by the said or any other employer; or

f. To cause loss or inconvenience to the workers employed by him or to any of them; or

g. To incite, aid, abet, instigate, or procure any other lockout; or

h. To assist any other employer to compel or induce any workers to agree to terms of employment or comply with any demands made by him.

Increased maximum penalties and fines for being a party to or inciting, instigating, or aiding an unlawful strike or lockout are also provided for—namely, (a) for a worker, £50 or (in the case of certain essential industries) £75; (b) for a union official, £250 or £350; (c) for a union or association or employer, £500 or £750. The maximum penalty for impeding or interfering with a secret ballot on the question of a strike or lockout is imprisonment for twelve months or a fine of £100, or both.

The provision in the 1947 amendment regarding the taking of a secret ballot by every industrial union of workers or of employers on questions relating to strikes and lockouts was supplemented in 1951 by making the union liable as having instigated any strike or lockout that takes place without a secret ballot having first been taken. The penalty in such a case is a fine not exceeding £100 for every member of the union taking part in a strike, and every official of the union a fine of £500 unless he proves that he had no means of knowing the imminence of the strike or that he took every step possible to ensure compliance with the provision and to prevent the strike. Corresponding maximum penalties in respect of a lockout are £1,000 for a member of the union and £500 for an official.

Reference has been made in an earlier stage of this Section to the stabilization of wages, etc. In this connection the Economic Stabilization Emergency Regulations 1942 stipulated that no variation was to be made in the minimum rates of remuneration or the principal conditions of employment applying to any award, industrial agreement, or apprenticeship order except such adjustments of anomalies as the Court approved, having regard to the general purpose of the regulations. In February 1945 amending regulations were issued giving the Court power to amend existing awards and agreements so as to adjust disparities in wages levels. These regulations were revoked by the Economic Stabilization Regulations 1950. For the present situation in regard to the powers of the Court under the Economic Stabilization Regulations 1951, see the references to the paragraphs on stabilization on pages 941–945.

Labour Disputes Investigation Act.—Machinery for dealing with all disputes to which the Industrial Conciliation and Arbitration Act does not relate is contained in the Labour Disputes Investigation Act 1913.

Under this Act, if a dispute concerning wages or other conditions of employment arises between a society (or societies) of workers, whether registered or not, that is not bound by any award or industrial agreement and its employers, the society must, before it may strike, give to the Minister of Labour formal notice of the dispute, setting forth the names of the parties to the dispute and the claims made by the society. The Minister then refers the dispute to a Conciliation Commissioner to call a conference, or to a Labour Disputes Committee for investigation and recommendation. Such a committee consists of from one to three members chosen from each side, with an independent chairman. In the event of no settlement being arrived at, a secret ballot is taken by the Registrar of Industrial Unions among the members of the society as to whether, in the case of no recommendation having been made, a strike should eventuate, or, in the case of a recommendation having been made, as to whether the recommendation should be adopted. Seven days' notice must be given to the employers should a strike be decided upon.

Similar provisions apply with reference to the filing of a dispute and to a lockout by the employers.

In the event of an agreement being arrived at, it may be filed with the Clerk of Awards. It is then enforceable in the same manner as an industrial agreement under the Industrial Conciliation and Arbitration Act.

By this Act the principle of settlement of industrial disputes by conciliation and arbitration is extended to workers outside the scope of the Court of Arbitration, so that definite restrictions on the right to strike or to lockout exist over the whole field of industry in New Zealand. The powers under this Act are not of course, as far reaching as those under the Industrial Conciliation and Arbitration Act, its main object being that workers or employers should take time for consideration of the points at issue and not precipitate themselves into industrial strife.

Industrial Relations Act 1949.—This measure contains a section enabling a Conciliation Commissioner or a person nominated by the Minister to call a compulsory conference of parties where there is reason to believe that a matter not provided for in the award or industrial agreement governing the industry is causing or is likely to cause industrial unrest.

38 E—APPRENTICESHIP AND TRADES CERTIFICATION LEGISLATION

APPRENTICESHIP LEGISLATION.—The statutory regulation of apprenticeship goes back as far as 1865, when a Masters and Apprentices Act was passed which provided for indentures of apprenticeship binding children above twelve years of age to farmers, tradesmen, and artisans for a term not exceeding five years. Every indenture was to contain a covenant on the part of the master that he would provide the apprentice with suitable food, clothing, and bedding, give particular attention to his morals, and pay certain sums into the savings bank for him after his apprenticeship had exceeded two years. The Act was thus obviously framed with a view to providing for the welfare of orphans and destitute children.

Another Act was passed in 1875 which made provision for the apprenticing of boys to Government Departments for a term of not less than three nor more than seven years. The Departments made available in the first instance were the Government Printing Office and the Railway Workshops. Wages were to be paid, no provision was made for board, and the Act was clearly intended primarily to meet the case of boys whose parents were absent.

The Master and Apprentice Act of 1908 consolidated the above two Acts into an Act of Two Parts, but made no essential change.

A Master and Apprentice Amendment Act was passed in 1920 with a view to facilitating the apprenticing of immigrant and New Zealand boys between the ages of fifteen and nineteen to the occupation of farming until they were twenty years of age. Part I of the principal Act of 1908 (dealing with the relations between master and apprentice) was to apply with some slight modifications.

Until 1923 no legislation was passed to make special provision for the apprentice who worked by the day for the private employer.⁷ His case was regulated by the laws of England in so far as they were applicable to New Zealand, and by such provisions in regard to apprenticeship as the Court of Arbitration might have included in its awards. The Apprentices Act of 1923 was a landmark, in so far as it provided an elaborate administrative machinery to safeguard the interests of apprentices.

The Act stated that from time to time the Court of Arbitration should make orders regulating the wages, hours, and conditions of apprenticeship, the proportion of apprentices to journeymen that might be employed in any industry, the period of apprenticeship, and the minimum age of apprentices. It might also require employers to engage such number of apprentices as the Court might consider necessary to ensure an adequate supply of journeymen in the interests of the industry, order the transfer of an apprentice from one employer to another, order the attendance of any apprentice at a technical school or training establishment, prohibit any employer from employing an apprentice, enter the premises where an apprentice was employed in order to inquire into his welfare, and exercise a number of other powers. The Act applied to male apprentices only. Provision was made for the modification of apprenticeship conditions in the case of adults or of persons who were already partly trained. It also made provision for registration of every contract of apprenticeship and for the setting-up of Apprenticeship Committees.

The Secretary for Labour was to act as Registrar of Apprentices, and any Inspector of Factories might be appointed a District Registrar of Apprentices. Apart from registering contracts, these Registrars were to have the duty of ensuring that the Act was complied with, and they were to take proceedings for every breach of an apprenticeship contract. They were also given considerable scope for developing a system of vocational guidance, in so far as they were given powers to demand reports from the head teacher of any school as to the attainments and qualities of any child.

An amending Act of 1927 cancelled the power of the Court of Arbitration to determine the proportion of apprentices to journeymen that might be employed in any industry, while the amending Act of 1930 made some improvements in administration, dealt with the case of the unsatisfactory apprentice, and brought in further protective regulations. If an apprentice proved unsatisfactory, the employer might apply to the appropriate Apprenticeship Committee for the right to discharge him. The employer or the apprentice might appeal against this decision to a Stipendiary Magistrate. The interests of the apprentice were protected by regulations safeguarding his wages in the event of the employer's bankruptcy. The employer was to keep a wages and time book, and a copy of the apprenticeship order was to be affixed in a place where it might be easily read by the apprentice.

* The Shipping and Seamen Act of 1903 included some sections regulating the apprenticing of boys to ships.

The economic depression had an unfavourable effect on the apprenticeship system. The Finance Act of 1931 conferred power on the Court of Arbitration to vary the rates of remuneration payable under apprenticeship orders (though such a variation was not to apply to any contract of apprenticeship then in force). The Finance Act of 1932 stated that either party to an apprenticeship contract might apply to a Stipendiary Magistrate to have the contract of apprenticeship amended, cancelled, or suspended. If the Magistrate was satisfied that, owing to the economic conditions affecting the industry concerned or the particular business of the employer, the employer could not reasonably be expected to carry out the terms of his contract, he might cancel the contract.

The economic depression and its attendant legislation had thus considerably lessened the security and remuneration of the apprentice. The Finance Act of 1936 restored the rates of remuneration to the 1931 level and repealed the provision of the 1932 Finance Act in respect of the cancellation of apprenticeship contracts. Section 7 of the Statutes Amendment Act of the same year made partial provision for those whose contracts had been cancelled, in so far as it stated that any person of eighteen years or over might, with the approval of the Minister of Labour, enter into a special contract of apprenticeship with an employer.

The Second World War raised two new problems: that of the apprentice absent on military service for short periods, and the need for increasing production in certain industries, irrespective of whether they were carried on in private or public undertakings. Hence the Suspension of Apprenticeship Emergency Regulations, issued in 1939 and subsequently renewed, which provided that if apprentices were away on military service and returned within a period of three months their absence should be regarded as time served under the apprenticeship contract. Section 52 of the Statutes Amendment Act of 1941 permitted the temporary transfer of an apprentice from Government to private employment and *vice versa*, subject to the consent of the apprentice and his parent.

The Suspension of Apprenticeship Emergency Regulations 1944 revoked the previous suspension orders, and made provision for apprenticeships which were deemed to be suspended as a result of military service, to be revived within a period of six months of the termination of such service. Where a contract of apprenticeship was revived in accordance with these regulations, the term of the contract was to continue for the unexpired period of it at the date of suspension, or for three years, whichever was the lesser period. The apprentice could, however, be credited with any period of his military service during which he performed trade work of the same class, or of a class related to that to which he was apprenticed.

Other provisions dealt with the wages payable under these revived contracts, special reference being made to cases in which the apprentice had reached the age of twenty-one years or whose term of apprenticeship as prescribed by the contract had expired. Limitations contained in any Act, award, apprenticeship order, or agreement as to the age or number of apprentices, or the proportion of apprentices to journeymen, were deemed to have no application to such revived contracts. These regulations were revoked by the Military Training Act 1949, which also made appropriate provision safeguarding the position of apprentices fulfilling their obligations under that Act.

The Apprentices Amendment Act 1946, which came into force on 1 January 1947, was the legislative consequence of the report of the Commission of Inquiry into apprenticeship and related matters set up in 1944. This Act made widespread changes in the traditional apprenticeship system of the country. In the first place it made provision for the appointment of a Commissioner of Apprenticeship and of four District Commissioners, who were to take over the functions of the District Registrars of Apprentices under the original Act. In industries where there are organizations of employers and workers, these organizations may agree to set up New Zealand Apprenticeship Committees, which may be registered in the usual way. These New Zealand Committees, which operate in addition to the existing "local" Committees, have a number of functions, which, broadly, may be described as to supervise the flow of youths into the skilled trades, to apply to the Court of Arbitration for apprenticeship orders, to ensure proper training of apprentices, to consider whether it is practicable and desirable to introduce educational training during normal working hours, and to consider the question of a practical test for each apprentice before the completion of his apprenticeship. The Act provided that certain powers of the Court of Arbitration in respect of apprentices may be delegated by it, partly to local Committees and partly to New Zealand Committees. From the date of the commencement of the Act no apprenticeship orders may be made in respect only of a specified locality, but must be made in respect of each industry or branch of industry for the whole of New Zealand.

In making apprenticeship orders the Court of Arbitration is empowered to apply the conditions of awards for the industry to apprentices, and to determine the wages of apprentices by reference to those of journeymen in the industry. While the Economic Stabilization Regulations 1952 originally required the Court of Arbitration, in exercising its powers and functions in relation to the making of apprenticeship orders, to have regard to the general purpose of the Economic Stabilization Act 1948, this requirement was deleted by the December 1952 amendment. The Court may, in an order, require an employer to pay to an apprentice wages for time taken during the day to attend a technical school, and may shorten the period of apprenticeship in the event of an apprentice obtaining a special qualification. On the making of a new order all contracts in force at the time are to be read subject to the new order and to be deemed modified by it. The hours of apprentices under eighteen years of age are limited to forty per week and eight per day, and, where shift-work is involved, between 7 a.m. and 6 p.m. These limits may be exceeded if an apprenticeship order provides for the working of overtime by apprentices under eighteen years of age. Regulations may be made providing for the payment to any apprentice who is obliged to live away from home of amounts by way of lodging allowance. Such allowances are to be paid out of moneys appropriated by Parliament for the purpose.

The Court may also make apprenticeship orders in respect of females, and, in that event, the Act applies to such females.

An important provision contained in the amendment was that requiring the previous consent of the appropriate Committee before a contract of apprenticeship is entered into. The provision for apprenticeship of persons of eighteen years or over contained in section 7 of the Statutes Amendment Act 1936 was repealed, and such apprenticeships may now be entered into subject to the approval of the Court of Arbitration, to which any proposed contract must be submitted, together with the recommendations of the District Commissioner or the local Committee. Where any employer is considered not to be able to provide adequate training, a local Committee or District Commissioner may transfer his apprentice to another employer who is willing and able to undertake the obligations of the original employer, notwithstanding that the second employer's provision of apprentices to journeymen would thereby be exceeded. If in such a case no employer to whom the apprentice might be transferred can be found, the Court may, with the consent of the appropriate Minister, transfer him to a State Department.

In 1948 the opportunity was taken to re-enact the provisions of the Apprentices Act 1923 and its amendments by the passing of a consolidating and amending measure entitled the Apprentices Act 1948. This Act incorporated the widespread changes in the traditional apprenticeship system which were brought into being by the 1946 amendment referred to earlier. More modern forms of words were employed in the new legislation, and the clauses were arranged in a more logical sequence. The principles of the existing legislation, however, were not altered although some slight amendments, which are described below, were made. The 1948 Act also repealed the Master and Apprentice Act 1908 and the Apprentices Act 1923.

In the 1948 legislation the term "industry" has been redefined so as to correspond with that given in the Industrial Conciliation and Arbitration Act 1925.

A series of minor amendments covers the constitution of the Apprenticeship Committees. Where the Committee is appointed in respect of a group of industries it is to consist of four representatives of employers and four representatives of workers. Other clauses limit the term of office of members of Committees to three years, provide for a quorum and for the replacement of members who die or resign, and further authorize a Committee to delegate its powers of inspection to two non-members of the Committee where it would be inconvenient for members to exercise those powers.

Additional provisions contained in the 1948 Act state that contracts of apprenticeship shall have no validity until consent is given in accordance with the Act, define the procedure when an apprentice is transferred, amplify the law applicable when an apprentice loses his employment through the insolvency of his employer, afford a parent or guardian an opportunity of being heard when an application is made to discharge an apprentice; and provide for notice to be given to the appropriate Committee in the event of an appeal against the granting or refusal of leave to discharge an apprentice.

Moneys due under a contract of apprenticeship may be recovered in the same manner as that provided in respect of recovery of wages in the Industrial Conciliation and Arbitration Act 1925. The Apprentices Act further provides that proceedings for breaches of the Act may be taken by an Inspector of Factories.

TRADES CERTIFICATION.—The Trades Certification Act 1948 provided for the establishment of the New Zealand Trades Certification Board, consisting of the following members:

- Three persons to be appointed on the recommendation of the Director of Education, one of the three to be appointed as Chairman of the Board on the Director's recommendation;
- Two persons to be nominated by the New Zealand Employers' Federation and two by the New Zealand Federation of Labour;
- Two persons to be nominated by the New Zealand Technical School Teachers' Association and one by the Technical Education Association;
- The person for the time being holding the office of Commissioner of Apprenticeship;
- Three other persons, one of whom is to be nominated by the New Zealand Electrical Wiremen's Registration Board, one by the New Zealand Motor Trade Certification Board, and one by the Plumbers' Board of New Zealand;
- Additional members of whom one shall be nominated by each other authority which conducts examinations and issues certificates for the whole of New Zealand in connection with a particular trade or trades, and which the Board recommends should be represented on the Board for the time being.

The members of the Board, other than the Commissioner of Apprenticeship, are to be appointed by the Minister of Education for a term of three years. Provision is made for reappointments, removals from office, etc.

The functions of the Board are to make provision for the examination of persons practising or intending to practise any trade who desire from time to time to present themselves for examination, and, secondly, to grant or issue, either independently or in conjunction with any other examining body, diplomas or certificates to any such persons in recognition of proficiency in any trade, or in any art, science, or matter relating to any trade.

The Board may also (a) opt-off if necessary any person or persons for advice in connection with any trade; (b) make representations to the appropriate New Zealand Apprenticeship Committee in regard to the pre-requisite education for apprentices wishing to enter any industry, or in regard to other educational matters affecting apprentices; appoint, with approval of the Minister, Advisory or Technical Committees to advise the Board on such matters within the scope of its powers and functions as are referred to them by the Board, and appoint any person to be a member of such a Committee even if he is not a member of the Board; and, in addition, charge fees for entry for any examination.

Payments incurred for the expenses of the Board and for administration generally are paid from the proceeds from fees and otherwise, and where the amounts from such sources are insufficient, the deficiency is to be met from the annual vote for the Education Department.

38 F—WORKERS' COMPENSATION; EMPLOYMENT AND UNEMPLOYMENT LEGISLATION

WORKERS' COMPENSATION.—Common-law rights of the worker in respect of compensation were early increased by the Employers Liability Act of 1882: while the Deaths by Accidents Compensation Act 1908 gave a right of action which did not previously exist at common law to certain of the relatives of a person killed by a wrongful act. The 1950 amendment to this latter Act extended the limitation period for actions (other than those against the Crown and public and local authorities) from one year to two years and enables the Court to extend the period to six years. The Law Reform Act of 1956 contained several provisions of particular relevance to the subject of workers' compensation. The Act, *inter alia*, created a charge on all insurance moneys payable as indemnity for compensation, and made the charge apply immediately on the happening of the event giving rise to the claim. Similar provisions (now repealed) existed in the Workers' Compensation Act 1922, but under that Act no charge was created unless the insured was insolvent or became bankrupt. The Workers' Compensation Amendment Act 1942 made it obligatory on the part of the employer to insure against his liability under the principal Act unless he was able to satisfy the Compensation Court that he had adequate financial resources to meet all probable claims. Another provision of particular interest in the Law Reform Act 1956 was the abolition of the defence of "common employment," which defence depended on a rule that damages could not be recovered from an employer in respect of the negligence of a fellow-servant. A similar provision in the Workers' Compensation Act (but with a limit of £1,000 damages) was consequently repealed.

The Contributory Negligence Act 1947 is also of relevance to the question of workers' compensation. This Act provides for an apportionment of damages where a person suffering damage has himself been guilty of contributory negligence. Section 4 makes appropriate provisions in the case of claims by workers against employers. The Act was amended by section 4 of the Statutes Amendment Act 1948, which removed any possible doubt by expressly stating that the principal Act was to bind the Crown.

The Workers' Compensation Act 1922, with its amendments of 1922, 1926, 1936, 1938 (Statutes Amendment Act), 1943, 1944 (Statutes Amendment Act), 1945, 1947, 1948 (Statutes Amendment Act), 1949, 1950, 1951, 1952, and 1953, represents the existing law on workers' compensation—subject to the provisions briefly outlined in the preceding paragraphs. The 1936 amendment, which came into force on 1 January 1937, contained several important amendments to the previous legislation. The definition of "workman" was extended to include share-farmers and drivers of vehicles who receive a share in the takings as payment for their services, or who pay a fixed sum for the hire of the vehicle (other than under the terms of a hire-purchase agreement). While a share-farmer now comes within the provisions of the Act, he is still regarded as the employer in respect of persons employed by him. The 1953 amendment extends the scope of the Act to include salesmen, canvassers, collectors, insurance agents, and other persons paid wholly or partly by commission, whether the relationship of master and servant exists or not, unless the commission is received in connection with a trade or business carried on by the recipient.

The 1936 amendment contains a provision whereby claims for compensation rank equally with wages in the distribution of the assets of a bankrupt.

"Worker," for purposes of the Workers' Compensation Act, means any person who has entered into, or works under, a contract of service or apprenticeship with an employer, whether by way of manual labour, clerical work, or otherwise; and further remunerated by wages, salary, or otherwise. Prior to the commencement of the amending Act of 1945, non-manual workers whose remuneration exceeded £400 per annum were not covered, but this disqualification has now been removed, and all workers (manual and non-manual) are now afforded the protection of the Act, irrespective of the amount of remuneration. By section 61 of the Statutes Amendment Act 1949 the Workers' Compensation Act 1922 applies to the employment of any worker in any occupation, whether or not the employment is in, or for the purposes of, any trade or business carried on by the employer, and whether or not the employment is of a casual nature. For purposes of this provision an employer may have more than one trade or business. In general, persons working as independent contractors are not under contracts of service or apprenticeship, and are consequently not "workers." But by way of exception, persons who have contracted to perform any work in a gold or coal mine, or to cut standing timber or scrub, or to clear land of stumps or logs, and who do not submit the contract or employ labour (or who, if they do employ labour, actually perform part of the work themselves), though not "workers," are yet covered by the Act.

The worker is not entitled to compensation unless he sustains by accident arising out of and in the course of his employment, and happening within New Zealand or on a New Zealand ship or aircraft, personal injury incapacitating him from carrying on his occupation. The Workers' Compensation Amendment Act 1947, replacing largely similar provisions in the 1943 amendment, provides that, where an accident causing personal injury occurs while travelling to or from work by a means of transport provided by the employer primarily for the purpose of conveying workers in his employment, or expressly or impliedly authorized by him, such accident shall be deemed to arise out of and in the course of the employment. The Act also applies in cases where an employer has arranged with the worker or appropriate union for the transportation of the worker and has paid or is liable to pay for his fare or cost of carriage. No compensation is payable in respect of any accident above defined which is attributable to the serious and willful misconduct of the worker injured, unless the injury results in death or serious and permanent disablement. No compensation is payable in respect of the death of a worker following on, or incapacity resulting from or aggravated by, unreasonable refusal to submit to medical or surgical treatment.

Diseases are deemed to be personal injuries by accident if they arise within twelve months previous to the date of disablement and are due to the nature of the employment. If the worker contracts any disease in respect of which he would be entitled to a miner's benefit under the Social Security Act 1938 he is not entitled to receive any compensation under the principal Act while receiving such benefit. Nor can a benefit be paid for any period during which the worker is receiving compensation, and no lump-sum compensation is to be paid for any incapacity caused by such diseases.

Generally speaking, the employer is the person liable to pay compensation; and for this purpose "employer" includes any body of persons, corporate or unincorporate, the Crown (with certain minor exceptions), and the representatives of a deceased employer. Where a person (the principal), in the course of and for the purposes of his trade or business, contracts with another (the contractor) for the execution by the latter of work undertaken by the former, a workman employed by the contractor on meeting with an accident may claim compensation from either the principal or the contractor, except in certain cases. If the principal pays, he may, however (with certain minor exceptions), recover the amount from the contractor. The 1943 amendment introduced the principle of compulsory insurance, all employers being required to insure against their liability in relation to workers' compensation under the Act. Exceptions may be made where the Court is satisfied that the employers have adequate financial resources to meet all probable claims and that their workers can be given indemnities as great as those provided by employers not so exempted. The principal is not liable unless the accident occurs on or about his land, premises, or ship; or on or about land, premises, or ship on or in which the principal has contracted to do the work in connection with which the accident happens. Provision was made in the 1947 amendment for the principal Act to apply to the employment of an airman employed on a New Zealand aircraft in any employment covered by the Act, whether the accident happens in New Zealand or elsewhere, or on board the aircraft or elsewhere. Where the injury for which compensation is payable has resulted under circumstances creating a legal liability in some person other than the employer to pay damages in respect thereof, the person by whom the compensation is paid or payable is entitled to indemnification by the person so liable.

The Workers' Compensation Amendment Act 1947 is also of importance by virtue of its provisions relating to employers' indemnity. Under section 6 of the amendment, workers' compensation insurance became, with certain exceptions, a monopoly of the Branch of the State Fire Insurance Office known as the Government Accident Insurance Office. By the Act an automatic indemnity was provided for every employer who employed a worker or workers to whom the principal Act applied, while it also provided for the compulsory payment of premiums by employers. Other sections included in the amendment relate to accident prevention and the occupational training of seriously disabled workers.

The 1950 amendment, however, restored the right of insurance companies to undertake, as from 1 April 1951, employer's liability insurance. It is still compulsory for every employer to insure against his liability in this respect unless exempted by the Secretary of Labour. Employers with adequate financial resources to carry their own insurance, Commonwealth shipping companies indemnified by United Kingdom mutual protecting clubs, and those whose workers are domiciled outside New Zealand and are adequately protected by insurance enforceable in the country of their domicile or in the country where they were engaged, may be completely or partially exempted, though they are exempted only in respect of those who are members or eligible to become members or are insured according to the rules of the company concerned. The 1951 (No. 2) amendment exempted the National Airways Corporation and the Lincen Flax Corporation from the provisions of employers' liability insurance. The 1953 amendment enables employers of casual or intermittent labour to be insured throughout the year by the delivery of a wage statement to an authorized insurer in accordance with the provisions of the Act. The effect of a further section is that if a person ceases to be an employer and again becomes an employer during the same financial year, he will be indemnified by his former insurer and not by the Workers' Compensation Board.

Maximum rates of premiums are provided for in regulations which may be made from time to time. The 1950 amendment, altered in 1952, provides that an employer must give notice to his insurer of every accident and claim for compensation, that the employer must not settle a claim or admit liability without the consent in writing of the insurer; for the voluntary insurance of a worker who is the husband or wife of the employer, or is not required to be covered by insurance, or is employed without wages or at reduced wages; and that an employer who makes default in insuring within the time provided (one month after assessment) will be indemnified by the Workers' Compensation Board, and be required to insure with an authorized insurer and pay the premiums for the whole of the current year.

The Workers' Compensation Board, consisting of the State Fire Insurance General Manager and one other Government representative, two representatives of the Council of Fire and Accident Insurance Underwriters' Associations of New Zealand, one employers' representative, and one workers' representative, was also established by the 1950 amendment to the principal Act. The functions of the Board include recommending the maximum rates of premiums and rates of commission for insurance agents, administering the Workers' Compensation Account established by the same amendment, undertaking and assisting accident prevention, research into causes, incidence, and prevention of accidents, and the care and assistance of injured workers.

Penal rates of premiums, up to 25 per cent in excess of the prescribed maximum rates, may be imposed by the Workers' Compensation Board in cases where the risk is unusually great.

Employers are required to keep records of wages paid and time worked, while the production of books and the furnishing of information to insurers or to the Board is also allowed for in the Act.

The Workers' Compensation Amendment Acts of 1926, 1936, 1947, and 1949 to 1953, amended the Act of 1922 in the direction of raising the limits of compensation. The 1953 amendment provided that any future changes in the minimum or maximum amounts of compensation, or in the minimum or maximum weekly payments for total incapacity, are to be made by Order in Council. Under this provision the Workers' Compensation Order 1953 was issued increasing the amounts already given in the Amendment Act. In prescribing minimum or maximum amounts in respect of compensation by Order in Council, regard is to be had to any increases or decreases in wages made from time to time in ordinary rates of pay, ruling rates of wages, or minimum rates of wages, whether made in accordance with general orders or standard wage pronouncements by the Court of Arbitration or otherwise. The compensation payable at present is as follows:

- In case of death: Reasonable expenses of medical or surgical attendance, including first aid, and of funeral (maximum, £50), plus—
 - Where he leaves total dependants, a sum equal to 250 times his average weekly earnings, or the sum of £825, whichever is the larger, but not exceeding £2,370; or
 - Where he leaves partial dependants only, a sum reasonable and proportionate to the injury to those dependants, but not exceeding the sums specified in (a).

Where the amount of compensation payable in respect of death plus the sum of any weekly payments (or lump sum in lieu) paid by way of compensation for the accident prior to the death of the injured worker exceeds £2,700, the excess is deducted from the amount payable in respect of death.

- In case of injury: At the discretion of the Court, either—
 - During total incapacity, weekly payments equal to 80 per cent of the worker's weekly earnings at the time of the accident, notwithstanding that he may not have actually worked or the employment may not have actually continued for a full week (maximum £8 16s. per week, minimum £2 4s.); during partial incapacity, weekly payments for a period not exceeding six years, amounting to 80 per cent of the difference between the amount of the weekly earnings (deemed to be increased or reduced from time to time by the amount by which the minimum wage under the Minimum Wage Act 1945 applicable at the time of the accident is for the time being increased or reduced) and the weekly amount which the worker is earning or able to earn in suitable employment or business after the accident, but not exceeding £8 16s. per week; or
 - A lump sum equal to the present value at 3 per cent per annum compound interest of the aggregate weekly payments which, in the opinion of the Court, would probably become payable to the worker under (a). This lump sum is paid to the worker unless he is an infant or of unsound mind or the Court orders the whole or any part of the amount to be paid to a trustee for the protection of the worker.

The aggregate amount of weekly payments is not to exceed £2,370. In the case of the temporary incapacity of an apprentice or a worker under twenty-one years of age, the weekly payment must not exceed an amount equal to a full week's earnings at the time of the accident. An injured worker is entitled to additional compensation of 30s. per week for any period during which he requires constant personal attendance and is not being maintained free of charge in a hospital. This additional compensation is not to be taken into account in the computation of the maximum amount of compensation payable in respect of the accident giving rise to the claim.

Weekly payments of compensation may not be discontinued or diminished except in the following cases:

- Where the weekly payment is in respect of total disablement and the worker has actually returned to work;
- By agreement with the worker;
- With leave of the Compensation Court;
- By judgment or order of a Court of competent jurisdiction;
- After being in force for a period of six years (non-schedule injuries);
- Where the weekly payment is in respect of total disablement and the medical practitioner has certified that the worker is fit to resume work, or that he will be fit to resume work on a specified date (being a date not later than the date on which the weekly payments are ended).

The Compensation Court has power to declare, in any case to which case (f) applies, that the worker was not in fact fit to resume work, and that the ending of payments was not lawful. The further amount to be paid in weekly payments and additional penalty (if any) at the discretion of the Court. Any such ending of payments is also to be taken into account by the Court in determining whether or not the worker is entitled to compensation.

If the employer wrongfully terminates or diminishes weekly compensation payments, he is liable to pay double compensation to the worker.

A sum not exceeding £1 is payable in respect of medical and surgical attendance and first aid to the worker in respect of his injury. In addition, amendments to the Act make provision for the transport of the injured worker to a hospital, medical practitioner, and/or place of residence, and also for the provision of or payment of expenses of transport, meals, or lodging up to a maximum of £25, where an injured worker is required to travel to and from another town in order to obtain necessary medical or surgical treatment. The 1947 amendment also states that the employer is liable to pay, in addition to any of the compensation moneys payable under the principal Act, the cost of an artificial limb, etc., which may become necessary or desirable. This was extended by the Statutes Amendment Act 1949 to cover the cost of replacing or repairing damage to teeth, artificial dentures, etc., to a maximum value of £10.

No compensation was payable if incapacity lasted less than three days until the passing of the Workers' Compensation Amendment Act (No. 2) 1951, from which date this limitation was removed. In the case of certain injuries involving permanent disability (e.g., dismemberment or loss of use), compensation is assessed in accordance with a schedule to the Act, representing a proportion (varying according to the nature of the dismemberment) of the compensation payable in the case of total incapacity. Compensation is also recoverable in respect of a period of illness resulting from such an injury, but any sum so received in excess of £300 is taken into account in estimating the compensation payable in accordance with this schedule. In the case of injury to workers whose earnings are low by reason of their being appointed to a trade, etc., the amount of compensation in cases of permanent incapacity is based on the adult rates of pay. Section 69 of the Statutes Amendment Act 1944 extended this provision to cover part-trained workers over twenty-one years of age. The 1953 amendment makes the compensation for a period of the week proportionate to the number of working hours or days of incapacity compared with the normal working hours or days of that week.

Proceedings under the Act in respect of compensation for injuries are not maintainable by a worker unless written notice of the accident has been given to the employer as soon as possible after its occurrence; though the Court has power to excuse failure, due to reasonable causes, to give that notice on the part of the person injured, or if it is clear that the absence of such notice has not prejudiced the employer's position. Except where the Court excuses delay resulting from mistake or other reasonable cause, proceedings must be taken within six months of the date of the accident or the date of the last payment of compensation in respect of injury, or the date of the death of the person injured, whichever is the later. Formerly such proceedings were taken in the Court of Arbitration, but regulations issued in 1940 established a separate Court known as the Compensation Court for the hearing of workers' compensation cases. This Court has all the powers inherent in a Court of record, and all references in the Workers' Compensation Act 1922 or in the Workers' Compensation Rules 1939 to the Court of Arbitration were deemed to be references to the Compensation Court. This Court was re-established on a statutory basis without altering its identity, constitution, or officers by the Workers' Compensation Amendment Act 1952. In certain cases proceedings are heard in a Magistrate's Court. The Court may accept, admit, or call for such evidence as it thinks fit, and may exercise its powers in equity and in good conscience if it thinks fit, in respect of whether strictly legal evidence or not. Costs lie at the discretion of the Court. There is no right of appeal, but for good cause, orders or agreements in respect of compensation may be reviewed and even set aside by the Court at any time.

The right of a dependant who survives a worker to receive compensation for the death of that worker survives the dependant; and compensation can be recovered by the representative of that dependant. In addition to redefinition of the terms "total dependants" and "partial dependants," the 1947 amendment provided that dependency is to be determined as at the date of death of the worker. In assessing compensation no account is to be taken of any gain to dependants consequent on the death of a worker or of any family benefit payable. It thus applies to claims for compensation under the Workers' Compensation Act 1922 the same provisions as apply by virtue of section 7 of the Law Reform Act 1936 in cases of claims for damages under the Deaths by Accidents Compensation Act 1908 (consolidated in 1952). The Workers' Compensation Amendment Act 1952 replaces the provisions of the principal Act relating to the appointment of compensation payable in respect of the death of a worker, and for its investment if the Court thinks fit. The new provisions are in line with the corresponding sections of the consolidated Deaths by Accidents Compensation Act 1952. Compensation is to be apportioned by the Court, not by the jury, and the Court is given discretion as to whether to allot a share to each dependant or to form a class fund to be applied at the discretion of a trustee for the benefit of the persons concerned; in the latter case the share is to be inalienable and the trusts affecting it are not to be varied or terminated without the consent of the Court. Wide powers are given to the Court and the trustee to enable the moneys to be applied to the best advantage of the dependant or members. In making an apportionment order the Court may have regard to circumstances which have arisen since the death of the worker, and may also have regard to any gain to any person that is consequent on the death of the worker, notwithstanding that the gain cannot be taken into account in assessing the amount of compensation payable.

EMPLOYMENT AND UNEMPLOYMENT LEGISLATION.—Prior to the depression period of the early "thirties," there was little permanent effective legislation to cope with the problem of unemployment. In 1895 a Servants Registry Act provided for the inspection of servants registry offices and regulated the fees charged therein. The Labour Department was founded in 1891 and attempted, particularly through its Employment Bureau, to cope with the problem. In 1928 a Committee was set up to examine this matter, which was becoming increasingly more serious; and, following on the presentation of its report, an Unemployment Act was placed on the statute-book during the 1930 session of Parliament.

An Unemployment Board was established to assist in the administration of the Act. The main functions of the Board as set in the Act were: (1) to make arrangements with employers or prospective employers for the employment of unemployed persons; (2) to take such steps in accordance with the provisions of the Act as it considered necessary to promote the growth of primary and secondary industries in New Zealand, so that an increasing number of workers would be required for the efficient carrying on of such industries; (3) to make recommendations for the payment of sustenance allowances out of the Unemployment Fund.

The Act of 1930 authorized the payment of sustenance allowances out of the Unemployment Fund, but the activities of the Board were directed towards the placing of men in employment in preference to the payment of sustenance, the funds being mainly devoted to the subsidizing (or refunding in full) of wages of men for whom work was provided under various relief schemes. A 1934 amendment to the Act, *inter alia*, repealed a subsection of the original Act, which, in effect, had limited to a maximum of thirteen weeks the unbroken period during which sustenance might be paid to any one individual.

The Immigration Restriction Amendment Act of 1931, which empowered the Governor-General to make regulations restricting the number of immigrants entering the country, aimed, *inter alia*, at preventing an unwanted inflow increasing the number of those unemployed. Its operation was extended in 1933 and 1935, and it expired on 31 December 1936.

The Employment Promotion Act 1936 replaced and repealed the Unemployment Act 1930 and other legislation relating to unemployment. The Unemployment Board was abolished, the new Act being administered by the Department of Labour. An Employment Promotion Fund was established (deemed to be the same fund as the Unemployment Fund established under the Unemployment Act 1930), the revenue of the fund being derived from the employment tax, fees and penalties under the Act, and any other moneys appropriated by Parliament for the purpose. The main purposes for which the moneys in the fund were to be utilized were defined as follows:—

a. The development of primary and secondary industries in New Zealand, and the establishment of new industries, so that an increasing number of workers would be required for the efficient carrying on of such industries;

b. The making of arrangements with employers or prospective employers for the employment of persons who were out of employment;

c. The assistance, in accordance with the provisions of the Act, of persons who were out of employment or were otherwise in need of assistance.

By the Social Security Act 1938 provision was made for unemployment benefits, superseding the former sustenance payments, to become available as from 1 April 1939. The Employment Promotion Fund was abolished as from 30 September 1939, and the moneys transferred to the Social Security Fund. The amounts of, and qualifications for, benefits will be found on page 185 of this Year-Book.

Although the Employment Promotion Act was repealed by the Social Security Act, the functions of the Employment Division of the Department of Labour continued to include the promotion of work and industry for the absorption of surplus labour, and the placing in close contact of employers with employees through the medium of the State Placement Service. The Employment Division was placed under the control of the National Service Department (a wartime creation), but the Employment Act 1945 created out of the National Service Department a Department of State known as the National Employment Service, the principal function of which is broadly defined as "the promotion and maintenance of full employment at all times." In 1947 the National Employment Service and the Department of Labour were amalgamated to form the Department of Labour and Employment. Further reference in regard to its activities is included in Section 39, Employment and Unemployment.

38 G—HOUSING AND TENANCY LEGISLATION

HOUSING LEGISLATION.—The first legal provision in connection with housing was contained in the Factories Act of 1894, which gave Inspectors of Factories power to inspect accommodation provided for shelters and to demand improvements where necessary. More effective powers in this connection were contained in the Shelters' Accommodation Act of 1908. The Agricultural Labourers' Accommodation Act of 1908 extended this legislation and provided for the inspection of housing of agricultural labourers and flaxmill workers. In 1912 the sawmill workers was also included. The Agricultural Workers Act 1936, and regulations issued thereunder, laid down detailed specifications as to what constituted satisfactory accommodation, and superseded the Act of 1908. Statutory regulations issued in 1937 prescribed further details, and stated that the regulations were to apply to the accommodation of persons employed in agricultural, pastoral, horticultural, flax-milling, and sawmilling work.

The Joint Family Homes Act 1950, as amended in 1951 and 1952, superseded the Family Homes Protection Act 1895, which was consolidated as Part I of the Family Protection Act 1908, and makes it possible, on certain conditions, to establish a family home not exceeding £5,000 in value.

The 1950 Act aims at promoting a sense of dual ownership under which the family home will belong not to the husband or wife separately, but to both of them jointly so as to pass to the survivor on the death of one of them. To encourage the adoption of the new scheme, provision is made that, provided the settlor is solvent at the date of the settlement, the settled home shall be protected against the claims of creditors to the extent of £2,000, and shall to the same amount be exempt from death duties when it passes on the death of one of the beneficiaries to the survivor. The settled home is also protected from gift duty and stamp duty on the creation of the settlement.

The advances to settlers legislation of 1894 provided for State advances on mortgage to the owners of farming lands, and in 1899 this provision was extended to urban lands. Many of these advances would, no doubt, be used for building purposes, but no direct effort in the matter of providing housing accommodation was made until 1905. In that year a Workers' Dwelling Act was passed authorizing the Minister of Labour to erect dwellings to be let to *bona fide* workers at a rental of 5 per cent per annum of the capital value of such dwellings; and, in the following year, a system of advances to workers for the purpose of acquiring homes was instituted. By an amendment passed in 1922 workers could borrow for this purpose up to 95 per cent of the value of their security. To cope with the demobilization after the First World War the Housing Act of 1919 provided for the erection of dwellings not only by the State, but also by local authorities, employers, associations of public servants, and public-utility societies, the State advancing the money. The administration of this Act was later transferred to the State Advances Corporation. Local authorities are also empowered to obtain special loans from the State Advances Corporation to erect workers' dwellings for letting, and are granted certain concessions in carrying out this activity by the Municipal Corporations Act 1933. They are also empowered to guarantee loans for the erection of flats, subject to the consent of the Local Government Loans Board. There is much incidental legislation, as in the Coal Mines Act and the Government Railways Act, where provision is made for the suitable housing of employees.

The 1948 and 1950 amendments to the Municipal Corporations Act 1933 also contain, *inter alia*, provisions for granting loans for housing purposes up to a limit of £2,000 (see page 594).

Housing regulations are contained in the Municipal Corporations Act, where definite measurements are laid down to prevent overcrowding, and provision is made for the appointment of Inspectors to reduce fire risk and other dangers. Similarly the Health Act of 1920, which replaced the Public Health Act of 1908, provides for medical inspection and for measures to be taken to clean or demolish buildings which are found to be in such a state that certain alterations are made. The Town Planning Acts of 1926 and 1929, consolidated and amended by the Town and Country Planning Act 1953, aimed to develop and reconstruct areas in such a way as to promote their healthfulness and convenience.

In 1935, as a preliminary to measures for remedying the existing position in regard to housing, a Housing Survey Act was passed, instructing local authorities to ascertain as far as possible the extent to which the existing housing accommodation in their respective districts fell short of reasonable requirements. At the same time a Maori Housing Act empowered the Board of Maori Affairs to make advances to Maoris for the purchase, erection, or repair of dwellings. A section of the Maori Housing Amendment Act 1938 established a special fund to provide houses for those Maoris enabled to furnish the security or to make the payments which the Board would ordinarily require. In addition to the provision of housing under the Maori Housing Act, dwellings for Maoris are provided in the ordinary course of the Maori land development schemes. Particulars of the numbers of houses erected, etc., are included in Section 25.

Further provision with respect to the improvement of housing conditions is contained in the Housing Improvement Act 1945. The Act authorizes the making of regulations prescribing the standard of fitness of houses, and gives local authorities certain powers of enforcing the regulations or of assisting owners to comply with them. When a notice is given under the Act by a local authority requiring the owner to demolish a house which cannot be made to comply with the regulations, the Act makes it clear that alternative accommodation must be provided only in the case of the notice, and it is an offence for any other persons to commence to occupy the house after the notice has been served. In default of action by the local authority the Minister of Works is given power to act, or he may act under agreement with the local authority. Provision is also made for regulations requiring local authorities to keep a register of houses and to acquire land where a house is unfit for habitation or an area is below the minimum standard. The Act also deals with the reclamation of overcrowded areas, and gives power to local authorities with regard to the proclamation of reclamation areas and the resubdivision and improvement of such areas.

The provision of housing facilities for workers has been and is a very important part of the policy of the Government. Apart from the facilities for the building of houses provided for in the State Advances Corporation Act (see Section 33B), a comprehensive housing plan was launched in March 1937 whereby the legislative machinery provided in the Housing Act 1919 is being used to build homes to be let to workers at a reasonable rental. Provision is contained in the Finance Act (No. 3) 1943 for the tenant of a State rental house to make arrangements whereby, in consideration of special payments, he becomes entitled to remain the occupier of the dwelling rent free or at a reduced rental attaining a specified age. The arrangement may also permit his widow to become the occupier on the same terms, or entitle him to nominate any of his children to become the tenant after his free rate. Tenants of State rental houses are also being given the opportunity to buy the houses they occupy, and the legislative provision in this connection is contained in sections 22–27 of the Finance Act 1950. Subject to any direction of the

Minister of Finance, such houses may be sold for cash or under agreement for sale in such manner and on such terms as the Board of Management of the State Advances Corporation may decide. Particulars of the main terms of sale are given on page 807 of this volume. An account of the housing programme under the Housing Act, and its progress to date, is included in Section 25—Building, Construction, and Housing. Further provision of housing facilities in rural localities is contained in the Rural Housing Act 1939, which empowers local authorities to advance money to a farmer to enable him to provide a dwelling for his own use or for the use of any farm worker principally employed by him. The State Advances Corporation Amendment Act 1953 gave effect to the mortgage guarantee scheme, whereby the Corporation may guarantee to financial institutions repayment by the borrower of the difference between the normal loan and 90 per cent of the valuation.

The Local Authorities (Temporary Housing) Emergency Regulations 1944 gave power to local authorities to establish transit housing centres for the purpose of providing temporary accommodation for persons who are awaiting the provision of permanent housing accommodation.

TENANCY AND RENTS LEGISLATION.—Certain sections of the War Legislation Amendment Act of 1916 dealt with house rents, the maximum rent being fixed at 8 per cent per annum of the capital value of the dwelling. Material alterations in the law were made by the Rent Restriction Act 1926. Rent-restriction provisions were kept in force by annual continuing statutes up to 31 October 1936, when the earlier legislation was superseded by the Fair Rents Act 1936.

The Distress and Replevin Amendment Act 1950, repealing the 1936 amendment, protects all personal and family clothing, furniture, household effects, and tools or implements of trade to the value of £100 from seizure under a distress order for rent. The pre-existing legislation on this subject did not protect such effects from seizure.

Provision for statutory reductions in rent and interest payments was contained in the National Expenditure Adjustment Act of 1932, continued by the Finance Act 1934, and made permanent in 1936; while Courts were given power to reduce rents and mortgage interest by the mortgage-relief legislation of the depression period, consolidated in the Mortgages and Tenants Relief Act 1932. The Fair Rents Act 1936, which replaced the various measures referred to above, is briefly described in the following paragraphs.

The Fair Rents Act 1936 made temporary provision for the restriction of increases in the rent of certain classes of dwellingshouses, and for the determination of fair rents in respect of such houses. The Act applied, generally speaking, to dwellings actually let at the time of the Act was passed (June 1936) or let at any time between 27 November 1935 and the date of the passing of the Act. It did not apply to other dwellings or to any dwelling let at a rent exceeding £150 per annum. The rent of a dwelling coming within the scope of the Act could not be raised beyond the "basic rent" which was defined as the rent payable on 1 May 1936, or, in the case of dwellings not let on that date, the rent last payable before that date. On application of either the landlord or the tenant a Stipendiary Magistrate was empowered to declare a fair rent in respect of any dwelling to which the Act applied, having regard to various specified conditions—e.g., the relative circumstances of landlord and tenant. The fair rent was not to exceed the basic rent or the rent (if any) payable on 27 November 1935. The grounds for the recovery of possession were limited by the Act, while restrictions were imposed on the right of the landlord to distrain. The Act was to remain in force until 30 September 1937, but its operation was extended from time to time, and in fact its provision remained in force until superseded by those of the Tenancy Act 1948.

The 1936 Act did not apply to flats and apartment-houses, but an amendment passed in 1939 extended its provisions to cover buildings constructed for letting as more than two separate flats or apartments, all flats or apartments not originally constructed for letting separately, and flats and apartments where parts of premises were shared. The 1939 amendment also made provision for the making of regulations for the purpose of regulating charges in respect of residential accommodation with attendance or services.

The Fair Rents Amendment Act 1942 extended the application of the principal Act to all premises let as dwellingshouses, including those where part only was used as such. The "basic rent" was then defined as follows:

a. With reference to a dwellinghouse let as such on 1 September 1942, the rent payable on that date;

b. With reference to a dwellinghouse that was not let on that date, the rent that was last payable.

The Act made it an offence to refuse to let a dwelling on the grounds that the applicant had children. It also provided certain safeguards in respect of members of the Armed Forces in their capacity as tenants or landlords.

The application of the Fair Rents Act was further extended by section 27 of the Statutes Amendment Act 1946 to include premises occupied for residential purposes by two or more persons severally. In such cases the total of the several amounts payable was deemed to be the rent of the premises. Section 28 of the same Act also extended the provision of the Fair Rents Act to cover premises where meals or food were provided by the landlord, unless the value of the meals or food formed a substantial portion of the rent.

As previously stated, the Fair Rents Act applied only to premises let as dwellingshouses, but the Economic Stabilization Emergency Regulations 1942 provided for the stabilization of all other rents, whether on account of land or buildings. The basic rent under these regulations had the same meaning as in the case of the Fair Rents Act, and rents that might be charged were restricted accordingly. On the application of the landlord or tenant of any property the Court might make an order determining the fair rent of that property.

The basic rent or fair rent (if any) of any land established under the Fair Rents Act or the Economic Stabilization Emergency Regulations was taken into account in determining the basic rent of such land for the purposes of the Servicemen's Settlement and Land Sales Act 1943.

The Fair Rents Amendment Act 1947 included the following provisions: The basic rent for a dwellinghouse was not to be affected by variations in tenancies as to furniture, etc., or by subletting; tenancy registers were to be kept by the landlord; no fine or premium was to be chargeable for tenancy or renewal or transfer; provision was made for recovery of possession of a dwellinghouse for a serviceman who vacated it to become a serviceman; and the absolute protection of a serviceman tenant was also modified.

A further part of the 1947 amendment was concerned with the letting of unoccupied houses. It empowered local authorities to serve notice to the owners requiring them to let such houses. Conditions were laid down governing appeals against notices given by local authorities to the above effect. On default of action by the owner the house could be let by the State Advances Corporation, the rent received to be paid to the owner, less commission and expenses. Power was given to enter and inspect any premises for the purposes of this portion of the Act to any person so authorized by any local authority.

The Tenancy Act 1948 repealed the considerable body of the Fair Rents legislation passed during the period 1936–47. In effect, however, it consolidated the former legislation, including Part III of the Economic Stabilization Emergency Regulations 1942, while at the same time it introduced several important amendments. The main alterations to the existing law, together with amendments contained in the 1950, 1952, and 1953 amendment Acts, are referred to below.

The provisions as to rent restriction of tenancies (inclusive of sub-tenancies) relates to dwellingshouses and to all leased properties, except that the definition of the term "property" has been amended so as to exclude farm lands and licensed hotels and camp sites (let for periods not exceeding six weeks). The definition of the term "rent" has also been extended to include money's worth. Two machinery changes involved were the appointment of Rents Officers to exercise the functions of Inspectors of Factories under the Fair Rents Act 1936, and of authorized persons under the revoked regulations, and defining the Court for fixing the fair rent as the Magistrate's Court, with a right of appeal to the Supreme Court where the basic rent or fair rent exceeds an annual total of £25.

A new section has the effect of extending to all properties the earlier provision which prevented the original basic rent from being affected by including furniture in the tenancy. The provision for restoring the original basic rent and deeming any existing higher rent to be a fair rent was extended to cover properties other than dwellingshouses. As far as a "fair rent" is concerned, the Court can now fix a fair rent payable by the landlord where he is himself a tenant. Provision is also made for the method of determining the fair rents of flats and apartments. Instead of ceasing to have effect at the end of one year or when a new tenancy occupies the premises as under the previous legislation, a fair rent fixed for a dwellinghouse now continues in force until a subsequent order takes effect.

A section relating to fines, premiums, etc., prohibits a landlord or outgoing tenant from receiving from a new tenant any consideration other than—

a. The rent;

b. The price of any chattels not exceeding the fair selling value, or the replacement cost of stock in trade.

The restrictions on payment for goodwill on the transfer of a tenancy were abolished by the 1950 amendment, which renders it unnecessary to have any such payment approved by the Land Valuation Court.

The time within which excess payments of rents may be recovered from the landlord by the tenant or deducted from current rent is extended from six months to twelve months.

Regulations issued in December 1952 and replacing those issued in November 1951, together with an October 1952 amendment, related to the fixing of the fair rents of dwellingshouses and business properties under the Tenancy Act 1948. These regulations were revoked by the Tenancy Amendment Act 1953, although measures to substantially the same effect were included in the amendment. The effect of the Act, together with that of the Tenancy Amendment Act (No. 2) 1953 on the fixing of fair rents, is as follows:

a. *Dwellingshouses*—

i. Where the dwellinghouse was built on or before 1 September 1942, any increase in value (up to 15 per cent in excess of the value on that date) is to be a special circumstance justifying a fair rent in excess of the basic rent.

ii. Where the dwellinghouse has been built after 1 September 1942, the capital cost of the dwellinghouse when built plus the cost of any subsequent improvements is to be a special circumstance.

iii. However, if the dwellinghouse (whether built before or after 1 September 1942) has been purchased after 22 February 1950 and let to a new tenant on or after 10 December 1951, then the capital cost to the landlord is to be a special circumstance. This only applies where the dwellinghouse has been let to a new tenant after the purchase.

iv. In the case of any dwellinghouse, whenever it was built, any increase in rates, insurance premiums, or other outgoings payable by the landlord are to be special circumstances.

b. *Business Properties.*—In the case of any business property, any increase in value (up to the capital value as defined in section 2 of the Valuation of Land Act 1951), and any increases in rates, insurance premiums, or other outgoings payable by the landlord, are to be special circumstances justifying a fair rent in excess of the basic rent.

c. In fixing the fair rent of any property, the amount of any premium payable in consideration of the grant or renewal of the tenancy may be taken into account to the extent that the Court deems fair and equitable having regard to the conditions of the tenancy.

d. The fair rents of a property and dwellinghouse let under the same tenancy are to be determined separately, the sum of these being the fair rent of the premises let under the tenancy.

Exemption from the restrictions on recovery of possession from a tenant is provided for by the 1950 amendment where, in the case of the letting of any dwellinghouse or urban property, the landlord and the tenant by agreement in writing dated not earlier than 1 March 1950, and incorporating the terms and conditions of the tenancy, have agreed that Part III and sections 41, 42, and 43 of the Tenancy Act shall not apply. The agreement has to be approved in writing by a Rents Officer, and a copy of the agreement deposited with the latter before the date of commencement of the tenancy. In the following cases also those provisions containing the restrictions on recovery of possession cease to apply—namely, a dwellinghouse let to a worker by his employer; a dwellinghouse or urban property let on behalf of a mental patient; where a tenant has sublet the whole of the dwellinghouse provided that the subletting is not due to the temporary absence of the tenant for not more than a year; and to a tenancy of any urban property transferred either directly or by subtenancies, after the expiration of six months from the date of the transfer of the

tenancy or twelve months from the commencement of this section of the Act (whichever period is the later to expire), unless the landlord consents or the Court orders that those provisions shall continue. The 1953 (No. 2) amendment also included in the list of exemptions leases of properties for more than five years, and in addition provided that the Act did not apply to new self-contained flats or to new tenancies of self-contained flats resulting from conversion of buildings carried out after the commencement of the section.

The Act provides for recovery of possession on the following grounds:

- a. Failure to pay rent or to comply with other conditions of the tenancy;
- b. Failure to take reasonable care of premises or the tenant has committed waste;
- c. Tenant is guilty of conduct that is a nuisance or annoyance to adjoining or neighbouring occupiers. Where application on this ground has not been successful, the Court may order the cessation of restrictions after six months, unless the landlord's conduct has contributed to the circumstances complained of. The order may be revoked within five months on the ground that the circumstances had been improved;
- d. The tenant, by subletting the premises, or part thereof, is making a profit which, compared with the rent paid, is unreasonable;
- e. For an urban property, that possession is required only of a part of the premises in excess of the reasonable requirements of the tenant;
- f. For a dwelling forming part of the same building as the one occupied by the landlord, that the premises are reasonably required for the aged parents of the landlord or, where the landlord is an aged parent, for the son or daughter to live with the landlord;
- g. For a dwelling, that the premises are not reasonably required for occupation as such by the tenant;
- h. For a dwelling or an urban property, that the premises are reasonably required by the landlord or joint landlords for his or their own occupation;
- i. For a dwelling, that the landlord is a trustee, and the premises are required by the beneficiaries under the trust for their own occupation;
- j. For a dwelling, that the premises are required for occupation by any person in the regular employment of the landlord;
- k. That the estate or interest of the landlord in the premises will have expired or been determined not later than three months after the date of the application for the order;
- l. For a dwelling or an urban property, that an agreement for its sale has been made and that premises are required by the purchaser for his occupation;
- m. (m) That the premises are required for demolition or reconstruction or for removal to another site;
- n. (n) That the landlord is an administrator of the estate of the deceased former landlord, and the premises are required for sale for the purpose of distributing the estate.

Suitable alternative accommodation has to be provided or greater hardship established before orders can be made in respect of applications on grounds (l), (i), (j), (k) listed above. Suitable alternative accommodation is also required for grounds (l), (m), and (n).

Neither alternative accommodation nor greater hardship provisions apply, although relative hardship is taken into account, for cases (i) where the landlord of a dwelling has been such for a period of three years prior to application date, or if in receipt of an age benefit and has also been a landlord for two years, (ii) where the landlord of an urban property has given one year's notice, and has been such for two years prior to the notice, although the Court may adjourn proceedings for up to six months if it considers that it is just and equitable to do so.

Relative hardship is still taken into account for the remaining grounds, with the following exceptions:

The alternative accommodation, greater hardship, or relative hardship requirements do not apply where a dwelling is required by the landlord for his own occupation if (i) he is 60 years of age, or if a woman, she is 55 years, (ii) he has given six months' notice, (iii) he has been the landlord for three years immediately prior to the notice, and (iv) he did not have adequate and suitable living accommodation in premises owned by him. Relative hardship is not required to be established for applications on ground (n) listed above.

The Act also provides that the landlord or other person represented as requiring possession of premises for his own occupation is restricted from letting or selling the premises for a period of two years, unless an authorizing order is obtained from the Magistrate's Court.

Other conditions of the Act give the landlord a right to apply for an order for the recovery of excess land for building purposes, or for sale for that purpose, or for an order authorizing him to convert a dwellinghouse into flats, one to let to the existing tenant with appropriate adjustment of rent payable; give a right to apply for recovery of possession where a landlord is a trustee wanting possession of a dwellinghouse for occupation by a beneficiary under the trust; and also make it an offence for a landlord to evict a tenant without an order of a Court or the tenant's consent.

The 1950 amendment includes a provision that where a landlord offers alternative accommodation, such is deemed to be suitable, unless the Court is satisfied that it is inadequate for the needs of the tenant, or is of unreasonably low standard, or is for any special reason unsuitable for the tenant.

Some new miscellaneous provisions were also incorporated in the Tenancy Act 1948. Included in this category are the extension of protection of tenancy in case of death to members of the deceased's family; the preservation of a tenancy for the wife or husband of the tenant in cases of separation or desertion; the prescription of conditions implied in tenancies; requiring receipts to be given for rent payments; making it an offence for a landlord to deprive a tenant of his amenities, as by cutting off electric power, gas, or water; and deal with the case of unauthorized occupiers.

The Destitute Persons Amendment Acts 1951 and 1953 contain provisions relating to the power of a Magistrate, in making a separation or guardianship order, to vest the tenancy of a dwellinghouse in any person, either complainant or defendant, and giving the landlord the right to apply for cancellation or variation of such a vesting order.

Regulations made under the Emergency Forces Rehabilitation Act 1953, replacing earlier legislation, govern the protection against eviction granted to servicemen who serve in the forces raised to meet an emergency arising out of the obligation undertaken by New Zealand in the Charter of the United Nations.

The Finance Act (No. 2) 1953 provided that the Tenancy Act 1948 was not to apply to the letting of dwellings for not more than twenty-one days to persons who visited a locality for the purposes of the Royal Tour.

Chapter 39. SECTION 39—EMPLOYMENT AND UNEMPLOYMENT

Table of Contents

PRIOR to the establishment in 1946 of the National Employment Service the only comprehensive source of information on employment in New Zealand was the periodical census inquiry. After each census a volume containing statistics of industries and occupations is published, and in respect of those of 1926 and 1936 there was an additional volume on unemployment. Certain specific fields—factories, public works, and local authorities—were, however, also covered by more frequent, usually annual, collections. The activities of the National Employment Service and the scope of the knowledge of employment matters at present available are dealt with in detail in later pages of this Section.

STATISTICS OF THE 1951 CENSUS.—The tables presented herewith continue the series of the 1951 census results to which reference has already been made on page 45.

INDUSTRIAL DISTRIBUTION AND OCCUPATIONAL STATUS.—The following tables illustrate the extent to which the population directly participated in the economic life of the country, according to industry and the nature of their activities—i.e., employer, wage or salary earner, etc. It is not possible to give comparative figures for 1945 owing to changes in procedure. At that census the classification of the Maori population was done on an occupational basis, and data were not available by industry and occupational status for this section of the population. The compilation does, however, allow for a comparison between the two censuses showing numbers actively engaged or otherwise, and the following table gives this information.

	1945 Census			1951 Census		
	Males	Females	Total	Males	Females	Total
<i>Numbers</i>						
Actively engaged	495,477	167,263	662,740	568,963	171,533	740,496
Not actively engaged	337,400	702,158	1,039,558	405,005	793,971	1,198,976
Totals	832,877	869,421	1,702,298	973,968	965,504	1,939,472
<i>Proportions Per Cent</i>						
Actively engaged	59.49	19.24	38.93	58.42	17.77	38.18
Not actively engaged	40.51	80.76	61.07	41.58	82.23	61.82
Totals	100.00	100.00	100.00	100.00	100.00	100.00

The return of members of the Armed Forces is responsible for a large part of the increase in males actively engaged, but the decrease in the proportion is probably due to the high post-war birth rate. The increased birth rate would also be responsible for some of the decrease in the proportion of females actively engaged, while the withdrawal of women from industry following the termination of the war and the lifting of man power controls would also have its effect.

Industrial Distribution 1951: Divisions.—The industrial distribution of the population by the principal divisions of industry at the 1951 Census is now given.

Division	Numbers			Percentage of Total Population		
	Males	Females	Total	Males	Females	Total
Agriculture, forestry, hunting, and fishing	126,220	9,669	135,889	12.96	1.00	7.01

Division	Numbers			Percentage of Total Population		
	Males	Females	Total	Males	Females	Total
Mining and quarrying	7,707	100	7,807	0.79	0.01	0.40
Manufacturing	136,325	41,105	177,430	14.00	4.26	9.15
Construction	61,234	1,080	62,314	6.29	0.11	3.21
Electricity, gas, water, and sanitary services	7,691	607	8,298	0.79	0.06	0.43
Commerce	83,284	38,397	121,681	8.55	3.98	6.27
Transport, storage, and communication	70,142	7,924	78,066	7.20	0.82	4.03
Services	72,729	71,207	143,936	7.47	7.38	7.42
Activities not adequately described	3,631	1,444	5,075	0.37	0.15	0.26
Total actively engaged	568,963	171,533	740,496	58.42	17.77	38.18
Not actively engaged	405,005	793,971	1,198,976	41.58	82.23	61.82
Grand totals	973,968	965,504	1,939,472	100.00	100.00	100.00

Industrial Distribution 1951: Major Groups.—A more detailed classification by major groups is shown below.

Industry Divisions and Major Groups	Males	Females	Total
Agriculture, forestry, hunting, and fishing—			
Agriculture and livestock production	119,172	9,506	128,678
Forestry and logging	3,802	132	3,934
Hunting, trapping, and game propagation	1,779	11	1,790
Fishing	1,467	20	1,487
Mining and quarrying—			
Coal mining	5,557	78	5,635
Metal mining	994	10	1,004
Crude petroleum and natural gas	23		23
Stone quarrying, clay, and sand pits	1,100	8	1,108
Non-metallic mining and quarrying	33	4	37
Manufacturing—			
Food manufacturing	27,727	4,798	32,525
Beverages	2,588	189	2,777
Tobacco	588	844	1,432
Manufacture of textiles	4,360	3,475	7,835
Manufacture of footwear, other wearing apparel, and made-up textile goods	8,746	20,316	29,062
Manufacture of wood and cork (excluding furniture)	14,262	445	14,707
Manufacture of furniture and fixtures	5,659	801	6,460
Manufacture of paper and paper products	1,193	674	1,867
Printing, publishing, and allied industries	7,729	2,277	10,006
Manufacture of leather and leather products (except footwear)	1,977	524	2,501
Manufacture of rubber products	2,298	534	2,832
Manufacture of chemicals and chemical products	3,961	1,333	5,294
Manufacture of products of petroleum and coal	314	16	330
Manufacture of non-metallic mineral products	6,150	355	6,505
Manufacturing—			
Manufacture of metallic products (except machinery and transport equipment)	5,306	612	5,918
Manufacture of machinery (except electrical machinery)	11,868	722	12,590
Manufacture of electrical machinery, apparatus, and supplies	4,743	934	5,677
Manufacture of transport equipment	23,774	1,189	24,963
Miscellaneous manufacturing industries	3,082	1,067	4,149
Construction—			
Construction	61,234	1,080	62,314
Electricity, gas, water, and sanitary services—			
Electricity, gas, and steam	6,693	587	7,280
Water and sanitary services	998	20	1,018
Commerce—			
Wholesale and retail trade	71,644	32,941	104,585
Banks and other financial institutions	6,249	2,910	9,159
Insurance	3,748	2,019	5,767
Real estate	1,643	527	2,170
Transport, storage, and communication—			
Transport	57,193	3,521	60,714
Storage and warehousing	218	26	244
Communication	12,731	4,377	17,108
Services—			
Government services	22,347	4,900	27,247
Community and business services	31,524	40,789	72,313
Recreation services	4,849	1,421	6,270
Personal services	14,009	24,097	38,106
Activities not adequately described	3,631	1,444	5,075
Total actively engaged	568,963	171,533	740,496
Not actively engaged	405,005	793,971	1,198,976
Grand totals	973,968	965,504	1,939,472

Occupational Status 1951.—The following table shows the distribution of the population according to the character of participation or non-participation in industry.

Occupational Status	1951 Census					
	Numbers			Percentage of Total Specified		
Males	Females	Total	Males	Females	Total	
Employer	63,570	5,933	69,503	6.54	0.61	3.59
Own account	71,235	7,683	78,918	7.32	0.80	4.07
Wage or salary earner	423,174	154,520	577,694	43.50	16.01	29.81
Unemployed	7,902	1,726	9,628	0.81	0.18	0.50
Relative assisting, unpaid	1,966	1,248	3,214	0.20	0.13	0.16

Occupational Status	1951 Census					
	Numbers			Percentage of Total Specified		
	Males	Females	Total	Males	Females	
Retired, independent means, etc.	27,850	12,482	40,332	2.86	1.29	2.08
Dependent on public or private support	377,155	781,489	1,158,644	38.77	80.98	59.79
Not specified	1,116	423	1,539			
Totals	973,968	965,504	1,939,472	100.00	100.00	100.00

The effect of an ageing population is shown by the larger proportions of persons not actively engaged. In the case of males, the proportion of not actively engaged increased from 39.65 per cent in 1945 to 41.63 per cent in 1951. The corresponding figures for females were 80.15 per cent in 1945 and 82.27 per cent in 1951.

POST-WAR DISTRIBUTION OF LABOUR FORCE.—Information is available for the years 1947-53 from the estimates of the National Employment Service showing the effects of the demobilization of the Armed Forces and of post-war developments on the industrial distribution of the labour force of the country. The table which follows shows the estimated distribution of the labour force, European and Maori, by broad industrial groups in April of each year from 1947 to 1953.

The figures have been adjusted into line with the 1951 census data.

Year	Primary Industry	Industry Group								Totals	Armed Forces	Unemployed	Totals-Labour Force
		Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication	Distribution and Finance	Domestic and Personal Services	Administration and Professional					
<i>Males (000)</i>													
1947	137.6	131.3	8.6	48.4	63.1	75.4	17.5	48.0	529.9	12.6	0.1	542.6	
1948	137.2	134.8	8.7	50.1	64.4	77.5	17.9	48.6	539.2	7.8		547.0	
1949	136.4	136.6	9.1	51.0	66.8	78.2	18.3	49.7	546.1	7.1	0.1	553.3	
1950	136.1	139.1	9.4	53.2	67.5	79.7	18.3	50.1	553.4	8.2		561.6	
1951	135.9	141.2	9.7	52.8	66.2	81.4	18.3	50.8	556.3	10.0		566.3	
1952	135.9	142.6	9.8	56.1	68.9	82.8	18.2	51.6	565.9	10.0		575.9	
1953	136.4	145.1	10.8	60.5	68.9	84.1	18.6	53.1	577.5	11.1		588.6	
<i>Females (000)</i>													
1947	12.2	40.3	0.6	0.9	6.3	32.7	25.8	41.9	160.7	0.5		161.2	
1948	12.2	41.0	0.6	0.9	6.9	33.4	26.0	42.6	163.6	0.4		164.0	
1949	12.2	41.4	0.6	0.9	7.0	33.9	26.4	43.2	165.6	0.5		166.1	
1950	12.2	43.1	0.7	0.9	7.3	34.8	26.3	44.3	169.6	0.7		170.3	
1951	12.2	44.4	0.7	1.0	7.6	36.4	25.8	45.2	173.3	0.8		174.1	
1952	12.2	43.7	0.7	1.0	8.1	37.5	25.5	46.4	175.1	0.9		176.0	
1953	12.3	42.1	0.7	1.1	8.3	38.3	26.3	48.4	177.5	1.0		178.5	
<i>Total (000)</i>													
1947	149.8	171.6	9.2	49.3	69.4	108.1	43.3	89.9	690.6	13.1	0.1	703.8	
1948	149.4	175.8	9.3	51.0	71.3	110.9	43.9	91.2	702.8	8.2		711.0	
1949	148.6	178.0	9.7	51.9	73.8	112.1	44.7	92.9	711.7	7.6	0.1	719.4	
1950	148.3	182.2	10.1	54.1	74.8	114.5	44.6	94.4	723.0	8.9		731.9	
1951	148.1	185.6	10.4	53.8	73.8	117.8	44.1	96.0	729.6	10.8		740.4	
1952	148.1	186.3	10.5	57.1	77.0	120.3	43.7	98.0	741.0	10.9		751.9	
1953	148.7	187.2	11.5	61.6	77.2	124.4	44.9	102.5	755.0	12.1		767.1	

UNEMPLOYMENT.—Except for occasional returns relating to State unemployment relief which were presented to Parliament from time to time, practically no direct statistical evidence as to the extent of unemployment in New Zealand prior to 1892 is extant. Such information is, however, available from the census (since 1896) and from the records of the Department of Labour and Employment (since 1892). In addition, statistics of unemployment among trade-unionists were collected from trade-union secretaries by the Census and Statistics Department from 1925 to 1930. A table showing figures of unemployment from June 1931 to March 1939 will be found on page 854 of the 1940 Year-Book.

Census Data on Unemployment.—The great disadvantage of the Census inquiry as an indicator of the trend of unemployment is that it provides data which are quinquennial intervals only up to April 1926, since when only three censuses have taken place, one on 24 March 1936, one on 25 September 1945, and the other on 17 April 1951. The unemployment figures from the latter will be found on page 967.

The following table gives relevant census data on unemployment for each census since 1896.

Census	Number of Males Unemployed	Proportion Per Thousand Male Wage-earners
12 April 1896	14,759	100
31 March 1901	8,467	48
12 April 1906	8,189	39
2 April 1911	7,152	30
15 October 1916	5,920	26
17 April 1921	11,061	39
20 April 1926	10,694	34
24 March 1936	35,774	96
25 September 1945	5,823	18
17 April 1951	7,902	19

The 1936 figure includes men on rationed relief work, but excludes men (16,222) partly unemployed but not on relief work. The 1943 figure includes ex-servicemen recently returned from overseas who had not then resumed work. At the time of the 1951 census the waterfront strike was in progress and it was estimated that approximately 15,000 workers in that and other industries were on strike. Evidently many of these were not returned as unemployed; it is likely that a number changed to other industries, while some may not have considered themselves to be unemployed.

Unemployment Benefit.—In the years immediately preceding 1939 two forms of unemployment relief were available: the provision of work for unemployed under various employment promotion schemes, and the payment of sustenance without work (refer 1942 and earlier issues of the Year-Book). Measures for the promotion of employment are still in operation, but the payment of sustenance without work was discontinued on the introduction of a system of unemployment benefits under the Social Security Act 1938. These benefits came into force on 1 April 1939, and monthly figures of the number of benefits current have been published in previous editions of this Year-Book. The number in force at the end of March 1953 was only 15.

Subject to the conditions set out on page 185, the unemployment benefit may be claimed as of right from the Social Security Fund, to which all workers over the age of sixteen years must contribute. Registration at a district office of the National Employment Service (Department of Labour and Employment) is a compulsory pre-requisite to eligibility for the benefit. Hence it is considered that the great majority of workers becoming involuntarily unemployed would register for employment in order to validate a claim for the benefit.

Close liaison is maintained between the Social Security Department and the National Employment Service to prevent the payment of benefit where work is available. In addition to the requirement that a benefit applicant must register for work at an employment office, all employment beneficiaries must report once weekly at the employment office.

For the number of persons remaining enrolled with district offices of the National Employment Service as disengaged and seeking employment at the end of each calendar month, refer to the table at the foot of page 978 (last three columns).

PROMOTION OF EMPLOYMENT.—Reference to earlier issues of the Year-Book will show the measures taken during the depression and post-depression years to relieve unemployment and in particular to promote employment. Under one of the principal schemes a maximum of 45,000 men were in receipt of part-time work in 1932 and 1933. In recent years the labour situation has been characterized by a general high level of employment and a high (even if latterly decreasing) number of vacancies in industry. The only employment promotion measure continuing in operation to any extent is Scheme 13, under which 114 men were employed at 31 March 1953, as compared with 128 on 31 March 1952. Most of these men are fit for light work only and are located in districts where employment opportunities are limited. Everything possible is done to place them in suitable private employment when the opportunity arises. They are allocated to local bodies and their wages are subsidized to an extent which brings their earnings up to the award rate for the type of work performed.

The operation of employment promotion schemes whenever required is a function of the Department of Labour and Employment.

Information concerning the measures in operation for the rehabilitation of ex-servicemen will be found in Section 9B.

Vocational Guidance.—Since 1938 full responsibility for the work of vocational guidance of pupils at post-primary schools, which for some years previously had been carried on almost entirely by voluntary organizations, has been taken by the Department of Education. A youth centre was established in each of the four main centres, and the work of guidance and placement was undertaken jointly by officers of the Education and National Service Departments. The Education Department assumed full control of these youth centres (now called Vocational Guidance Centres) in 1943. The numbers of those enrolled who were placed in employment during each of the calendar years 1947 to 1953 were as follows.

Year Ended 31 December	Number Placed by Centres	Number Self-placed	Totals
1947	1,723	1,203	2,926
1948	1,441	843	2,284
1949	1,564	675	2,239
1950	1,612	456	2,068
1951	1,475	365	1,840
1952	1,590	436	2,026
1953	1,409	525	1,934

National Employment Service.—As from 1 April 1946 the National Employment Service was established with the principal function of promoting and maintaining full employment in New Zealand. The new Department was set up under the Employment Act 1945. In fact, provision for Government Employment Bureaux had been made as early as 1891. From 1930 to 1936, the period of the operations of the Unemployment Board, the Bureaux functioned rather as unemployment registration offices than as placement services. In 1936 the activities of the Unemployment Board were transferred to the Employment Division of the Department of Labour and the bureaux replaced by a State Placement Service, which operated a widely used system of local labour exchanges. From 1942 to the end of March 1946 this became merged in the Industrial Man-power Division of the National Service Department, and, with an augmented staff, carried out the wider and more complex functions of man-power direction and control. In this work the Industrial Man-power Division developed a much greater emphasis on the collection and use of employment and other economic data, on the research and planning aspects of employment, and on the co-ordination of industrial activities with man-power resources. The National Employment Service was built upon these foundations. A comprehensive historical and statistical survey of the Industrial Man-power Division of the National Service Department from 1940 to August 1945 is given in parliamentary paper H-11A, 1945; a résumé of this paper was given in the 1945 Year-Book. The 1946 H-11A extended this survey to 31 March 1946, all man-power control being finally lifted on 30 June 1946. After twelve months' activity as a separate Department the National Employment Service was, however, on 1 April 1947 amalgamated with the Department of Labour to form the present Department of Labour and Employment.

The main activities of the Department on the employment side are: the collection of employment information and the application of this information towards securing a continuing adjustment of matters affecting employment, so as to maintain a policy of full employment at the highest productive level, assisting persons to secure work or more suitable work, and employers to secure labour, by maintaining twenty-five district employment offices, by operating camps and hostels for workers, and by other measures which may include occupational training or retraining; the administration of subsidized employment schemes for those unfit to compete in the ordinary labour market; and the operation of a Home Aid Service to provide domestic help for families in urgent circumstances.

The twenty-nine camps and hostels operated by or for the Department at 31 March 1953—comprising industrial workers' camps and hostels, immigration hostels, Public Service hostels, miners' hostels, Maori youth hostels, and one home-aid hostel—provided accommodation for 3,394 workers.

The Employment Act 1945 provided for the establishment of Advisory Councils and Committees to assist the Department in the effective administration of its employment service. A number of committees at both district and national levels have been set up, and meet as circumstances require.

Immigration matters, including the maintenance of immigration hostels, are also handled by the Department. Reference to assisted immigration has been made on pages 28-29 of this volume. To advise the Minister of Immigration on immigration matters and to aid the Department in the implementing of the immigration policy an Immigration Advisory Council was established in April 1947. Throughout the country there are also Immigration Welfare Committees whose function is to co-ordinate welfare activities in respect of new settlers, whether Governmentally assisted or not.

Of recent years special attention has been directed to the problem of Maori employment. Outstanding features of the Maori population are its rate of growth and the fact that the Maori people are largely resident in localities remote from the main centres of industrial activity. Practical measures for ensuring the continuing absorption of the Maori race into full employment have included the fostering of Maori apprenticeships and the establishment of Maori youth hostels.

Half-yearly Surveys.—Commencing in 1946 the Department has carried out at half-yearly intervals a general survey of employment in New Zealand. These surveys are conducted by means of inquiries sent out to employers of labour, the results being published in the *Labour and Employment Gazette*. Returns are required from all establishments in which at least two persons (including working proprietors) are engaged. Government and local-authority employment is included. Each return covers six consecutive months, the initial survey (apart from a pilot survey taken for April 1946) relating to the period May to October 1946. Particulars of working proprietors and number of establishments are available at half-yearly intervals only. Employers in farming, hunting, trapping, fishing, waterfront work, and private domestic service are not required to submit half-yearly returns. Seasonal industries (comprising meat processing, fruit and vegetable preserving, dairy factories, and wool stores) have since August 1946 been covered by a separate monthly inquiry. Following are tables showing the figures for April of each year from 1947 to 1953, and for October 1953, taken from these surveys, a dissection being provided into the chief industrial groups. Separate tables are given for males and females, working proprietors are distinguished from employees, and the numbers of vacancies reported and of establishments covered are appended.

A revised industrial classification has been introduced commencing with the statistics for May 1952. In order to show the effect of this change, the figures for April 1952 are set out in the table below on both the old and the revised bases, the old basis shown first in each case. Details of this reclassification will be found in the *Labour and Employment Gazette* for February 1953, published by the Department of Labour and Employment.

Since the publication of the 1953 Year-Book the undertaking industry has been transferred from the "Administration and Professional" group to the "Domestic and Personal Services" group. This transfer has necessitated amendments to the figures previously shown for April 1952 on the revised basis.

Further, the figures published in earlier issues of this Year-Book included threshing and chaff-cutting; but as since April 1953 this industry has been treated as a branch of farming and hence omitted from the inquiry, the following tables exclude threshing and chaff-cutting throughout.

Employment in industry on 15 April of the years 1947-53, and on 15 October 1953, is given in the following table.

	Primary Industry (Other Than Farming, Fishing, and Hunting)	Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication (Other Than Waterfront Work)	Distribution and Finance	Domestic and Personal Services	Administration and Professional	Totals, All Industries Covered
<i>Male Employees</i>									
April—									
1947	14,340	108,351	7,783	31,839	45,062	54,194	9,203	35,929	306,701
1948	15,397	112,598	7,833	33,355	46,297	56,611	9,587	36,881	318,559
1949	16,058	113,978	8,194	33,848	48,161	57,479	9,867	37,892	325,477
1950	15,875	116,702	8,518	35,142	48,745	59,078	9,937	38,534	332,531
1951	15,882	117,007	8,800	34,422	47,403	60,791	10,004	39,126	333,435
1952	15,825	120,862	8,957	37,254	48,833	62,283	9,964	39,826	343,804
Revised basis—									
1952—April	10,963	125,364	9,813	37,367	48,859	60,565	10,888	39,985	343,804
1953—April	10,619	127,834	10,812	40,606	50,117	61,762	11,054	41,368	354,172
October	10,623	123,239	10,776	42,266	50,812	61,933	11,072	40,851	351,572
<i>Male Working Proprietors</i>									
April—									
1947	400	6,595	4	3,480	1,575	7,163	2,315	529	22,151
1948	571	6,934	5	3,497	1,549	6,936	2,256	419	22,167
1949	679	7,657	6	3,712	1,546	6,929	2,403	381	23,313
1950	719	7,611	4	3,748	1,588	7,050	2,427	186	23,333
1951	642	7,180	4	3,922	1,534	6,971	2,367	178	22,798
1952	668	6,983	5	4,025	1,504	6,853	2,269	233	22,540
Revised basis—									
1952—April	348	7,174	8	4,025	1,505	6,622	2,445	413	22,540
1953—April	330	7,269	4	3,971	1,419	6,676	2,535	367	22,571
October	335	8,090	6	4,370	1,593	7,808	2,803	580	25,585
<i>Female Employees</i>									

—	Primary Industry (Other Than Farming, Fishing, and Hunting)	Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication (Other Than Waterfront Work)	Distribution and Finance	Domestic and Personal Services	Administration and Professional	Totals, All Industries Covered
April—									
1947	248	37,228	563	730	5,680	29,585	12,783	31,424	118,241
1948	256	37,911	560	744	6,220	30,295	13,059	32,136	121,181
1949	248	38,085	587	818	6,433	30,687	13,296	32,805	122,959
1950	257	39,931	634	818	6,698	31,688	13,153	33,935	127,114
1951	242	41,209	652	867	6,953	33,080	12,750	34,670	130,423
1952	289	40,675	669	878	7,413	33,918	12,527	35,782	132,151
Revised basis—									
1952—April	206	40,249	689	881	7,416	32,067	13,180	37,463	132,151
1953—April	215	38,705	736	934	7,674	32,837	13,426	39,181	133,708
October	201	40,274	728	996	7,547	33,164	13,208	39,576	135,694

<i>Female Working Proprietors</i>									
April—									
1947	1	873			29	1,329	1,340	215	3,807
1948	2	954			29	1,355	1,427	195	3,962
1949	2	1,195			29	1,480	1,543	190	4,439
1950	2	1,153			31	1,500	1,546	185	4,417
1951	4	1,154			38	1,584	1,552	162	4,494
1952	4	1,114		1	45	1,735	1,480	140	4,517
Revised basis—									
1952—April	3	1,087		1	45	1,706	1,510	165	4,517
1953—April	1	1,058		1	34	1,744	1,577	159	4,574
October		1,143		1	36	2,235	1,679	188	5,282

A dissection of the manufacturing industry column shown in the preceding table is now given over the same period.

—	Seasonal Manufacturing	Food, Drink, and Tobacco (Other Than Seasonal)	Textile, Clothing, and Leather	Building Materials and Furnishings	Engineering and Metal-working	Miscellaneous Manufacturing	Total Manufacturing Industry
<i>Male Employees</i>							
April—							
1947	18,738	8,895	12,382	15,703	39,015	13,618	108,351
1948	18,748	8,984	12,813	16,764	40,995	14,294	112,598
1949	18,867	9,027	12,696	17,156	41,660	14,572	113,978
1950	19,012	8,949	12,889	17,785	42,885	15,182	116,702
1951	17,808	8,840	13,051	17,981	43,672	15,655	117,007
1952	20,237	8,883	12,494	18,547	45,238	15,463	120,862
Revised basis—							
1952—April	20,237	8,905	12,487	23,411	44,589	15,735	125,364
1953—April	21,286	9,010	12,063	23,421	46,254	15,800	127,834
October	14,791	9,024	12,354	24,103	46,857	16,110	123,239

<i>Male Working Proprietors</i>							
April—							
1947	78	991	924	1,059	2,891	652	6,595
1948	78	1,069	923	1,090	3,142	640	6,934
1949	70	1,184	1,037	1,280	3,408	678	7,657
1950	62	1,158	1,011	1,257	3,437	686	7,611
1951	57	1,078	958	1,165	3,249	673	7,180
1952	60	961	914	1,147	3,291	610	6,983
Revised basis—							
1952—April	60	960	914	1,466	3,027	747	7,174
1953—April	52	958	870	1,547	3,116	726	7,269
October	58	1,021	940	1,688	3,567	816	8,090

<i>Female Employees</i>							
April—							
1947	1,393	4,635	20,597	1,074	3,753	5,776	37,228
1948	1,417	4,641	21,152	1,069	3,868	5,764	37,911
1949	1,320	4,796	21,408	1,024	3,846	5,691	38,085
1950	1,477	4,952	22,326	1,082	4,035	6,059	39,931
1951	1,555	4,589	23,591	1,130	4,207	6,137	41,209
1952	1,636	4,639	22,546	1,186	4,563	6,105	40,675
Revised basis—							
1952—April	1,636	4,580	22,528	1,276	4,274	5,955	40,249
1953—April	1,823	4,805	20,839	1,227	4,362	5,649	38,705
October	1,548	4,855	22,254	1,283	4,444	5,890	40,274

<i>Female Working Proprietors</i>							
April—							
1947	8	352	390	13	33	77	873
1948	12	351	447	14	50	80	954

NOTE.—For significance of "Revised basis" in table refer to text preceding table on page 971.

—	Seasonal Manufacturing	Food, Drink, and Tobacco (Other Than Seasonal)	Textile, Clothing, and Leather	Building Materials and Furnishings	Engineering and Metal-working	Miscellaneous Manufacturing	Total Manufacturing Industry
1949	10	448	548	30	74	85	1,195
1950	5	461	524	21	64	78	1,153
1951	4	452	530	16	78	74	1,154
1952	4	411	529	25	65	80	1,114
Revised basis—							
1952—April	4	411	535	19	50	68	1,087
1953—April	4	437	498	20	39	60	1,058
October	6	462	526	18	56	75	1,143

NOTE.—For significance of "Revised basis" in table refer to text preceding table on page 971.

The following table shows the number of vacancies reported by employers in the half-yearly surveys, the industry classification being the same as in the previous tables. Figures for April 1952 on the revised basis (see page 971) are not available in this instance.

—	Primary Industry (Other Than Farming, Fishing, and Hunting)	Manufacturing Industry*	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication (Other Than Waterfront Work)	Distribution and Finance	Domestic and Personal Services	Administration and Professional	Totals, All Industries Covered*
<i>Males</i>									
April—									
1947	952	8,231	438	2,405	3,651	1,115	197	1,235	18,224
1948	658	7,379	352	2,215	3,617	1,350	260	1,322	17,153
1949	490	6,880	316	2,002	3,310	1,774	216	1,389	16,377
1950	643	8,549	482	2,739	4,016	2,237	318	1,817	20,801
1951	579	8,430	472	2,609	5,126	2,024	312	1,852	21,404
1952	806	7,857	562	3,021	5,259	2,085	285	1,732	21,607
Revised basis—									
1953—April	333	5,080	351	1,904	3,803	1,417	173	1,136	14,197
October	171	4,462	285	1,996	3,338	1,590	192	1,242	13,276
<i>Females</i>									
April—									
1947	3	9,943	21	3	296	1,185	958	2,362	14,771
1948	3	7,924	23	15	242	1,261	654	2,440	12,562
1949	20	7,785	16	16	208	1,522	739	2,336	12,626
1950	15	7,894	31	31	243	1,668	721	2,508	13,080
1951	27	6,492	41	41	409	1,651	568	2,204	11,392
1952	24	3,824	35	35	416	1,511	446	2,254	8,510
Revised basis—									
1953—April	11	2,728	59	1	323	886	289	1,920	6,217
October	11	2,919	18	3	271	1,121	373	1,827	6,543

* Excluding "seasonal manufacturing."

Reported vacancies in manufacturing industry included in the previous table are now shown separately.

—	Food, Drink, and Tobacco (Other Than Seasonal)	Textile, Clothing, and Leather	Building Materials and Furnishings	Engineering and Metal-working	Miscellaneous Manufacturing	Totals Manufacturing Industry*
<i>Males</i>						
April—						
1947	282	1,276	1,191	4,597	885	8,231
1948	193	1,202	1,115	4,010	859	7,379
1949	301	1,296	1,039	3,334	910	6,880
1950	386	1,373	1,432	4,249	1,109	8,549
1951	313	1,186	1,413	4,556	962	8,430
1952	332	772	1,228	4,616	909	7,857
Revised basis—						
1953—April	145	575	897	3,000	463	5,080
October	140	606	865	2,374	477	4,462
<i>Females</i>						
April—						
1947	835	7,451	63	451	1,143	9,943
1948	6,131	427	124	380	862	7,924
1949	495	5,991	49	403	847	7,785
1950	495	5,993	56	408	942	7,894
1951	292	5,118	75	326	681	6,492
1952	394	2,654	47	234	495	3,824
Revised basis—						
1953—April	149	2,243	31	99	206	2,728
October	165	2,371	55	116	212	2,919

* Excluding "seasonal manufacturing."

The number of establishments covered by the National Employment Service surveys is now shown, the second part of the table giving an analysis of the manufacturing industry column contained in the first part. Reference should be made to page 971 for the significance of the revised basis shown for April and October 1953, figures for April 1952 on this basis not being available.

—	Primary Industry (Other Than Farming, Fishing, and Hunting)	Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication (Other Than Waterfront Work)	Distribution and Finance	Domestic and Personal Services	Administration and Professional	Totals, All Industries Covered
April—									
1947	84	9,201	223	3,106	2,052	11,215	3,576	3,105	33,062
1948	677	10,212	225	3,203	2,087	11,723	3,706	3,054	34,887
1949	737	11,007	223	3,422	2,138	11,965	3,819	3,068	36,379
1950	767	11,052	225	3,488	2,181	12,307	3,861	2,900	36,781

—	Primary Industry (Other Than Farming, Fishing, and Hunting)	Manufacturing Industry	Power, Water, and Sanitary Services	Building and Construction	Transport and Communication (Other Than Waterfront Work)	Distribution and Finance	Domestic and Personal services	Administration and Professional	Totals, All Industries Covered	
										1951
		753	11,104	224	3,626	2,260	12,677	3,824	2,932	37,400
		776	11,147	224	3,895	2,378	13,006	3,707	2,882	38,015
		592	11,740	244	3,896	2,359	12,468	4,064	3,409	38,772
		601	11,943	239	4,126	2,440	13,126	4,243	3,494	40,212
—	Seasonal Manufacturing	Food, Drink, and Tobacco (Other Than Seasonal)	Textiles, Clothing, and Leather	Building Materials and Furnishings	Engineering and Metal-working	Miscellaneous Manufacturing	Totals, manufacturing Industry			
								1947	1948	1949
		556	1,273	1,665	1,392	3,286	1,029	9,201		
		561	1,378	1,894	1,591	3,692	1,096	10,212		
		564	1,541	1,997	1,743	3,986	1,176	11,007		
		554	1,532	1,991	1,748	4,040	1,187	11,052		
		550	1,474	2,018	1,774	4,088	1,200	11,104		
		546	1,387	2,004	1,819	4,206	1,185	11,147		
		540	1,376	1,963	2,470	4,103	1,288	11,740		
		532	1,379	1,975	2,508	4,226	1,323	11,943		

The table now following shows the National Employment Service totals of employment in industry, under a more detailed industrial classification, as at 15 April 1952 and 1953; employment by the General Government, by local authorities, and by private employers being distinguished at the same time in the 1953 figures.

Industry	Number of Persons* in Industry at 15 April 1952		Number of Persons in Industry at 15 April 1953					
	Males	Females	Males			Females		
			Government	Local Authorities	Private*	Government	Local Authorities	Private*
Primary industry (other than farming, fishing, and hunting)—								
Forestry	2,200	128	2,175		119	132		5
Logging	2,373	10	91		2,218	2		
Coolmining	5,177	49	3,644		1,348	42		9
Other mining	546	6	402					4
Quarrying (n.e.i.)	925	16	148	804			1	21
Seasonal manufacturing —								
Meat processing, etc.	15,732	680		217	16,289			799
Fruit and vegetable preserving	655	588	98			75		551
Dairy factories	3,910	372	9	8	4,055			402
Food, drink, and tobacco (other than seasonal)—								
Grain milling	746	62			791			61
Bread bakeries	2,227	621			2,200			611
Biscuit making	553	440			596			545
Cake and pastry making	971	1,392			979			1,399
Sugar and confectionery	1,403	917			1,412			991
Other food	890	546			892			555
Beverages	2,608	225	15	2,574	2			242
Tobacco manufacture	467	788			509			836
Textile, clothing, and leather—								
Tanneries	1,360	86			1,328			87
Fur dressing and manufacture	232	266			199			221
Leather goods	533	451			517			440
Knitted wear and hosiery	1,095	2,256			1,102			2,084
Flax, rope, and twine	471	62			448			66
Woolen mills	1,598	1,048			1,644			1,158
Other textile production	797	364			871			403
Clothing manufacture	3,616	15,731			3,303			14,297
Footwear manufacture	2,775	2,120			2,592			1,964
Footwear repair	317	24			332			27
Other textile articles	607	655			597			590
Building materials and furnishings—								
Sawmilling, plywoods, etc.	8,347	260	565		7,631	14		241
Builders' woodwork	4,066	112		10	4,269			109
Furniture and cabinets	4,131	303			4,157			312
Other wood manufacture	1,312	235			1,276			193
Brick, tile, and stoneware	1,535	37			1,342			29
Pottery and glass	1,230	227			1,335			210
Lime, cement, etc.	4,256	121		6	4,377			139
Engineering and metal-working —								
Engineering and machinery	16,714	1,607			17,447			1,649
Electrical manufacture	4,153	1,121			4,179			1,045
Ships, locomotives, etc.	7,357	97	6,054	382	933	86	1	18
Vehicle and cycle manufacture	4,276	290			4,168			294
Vehicle repair and aircraft	15,116	1,209		806	15,401		9	1,299
Miscellaneous manufacturing —								
Chemicals and by-products	3,982	1,372			4,043			1,368
Rubber manufactures	1,802	495			1,775			489
Paper and pulp products	1,576	814			1,671			783
Printing, publishing, and allied	7,037	2,273	494		6,507	123		1,914
Instruments, clocks, jewellery	973	324			977			322
Other manufacturing (n.e.i.)	1,112	745			1,059			710

* These figures are inclusive of working proprietors.

Industry	Number of Persons* in Industry at 15 April 1952		Number of Persons in Industry at 15 April 1953					
	Males	Females	Males			Females		
			Government	Local Authorities	Private*	Government	Local Authorities	Private*
Power, water, and sanitary services	9,821	689	3,200	6,488	1,128	148	503	85
Building and construction	41,392	882	10,927	969	32,681	372	15	548
Transport and communication—								
Rail transport	17,801	1,440	17,224	938	68		153	2
Road transport	14,768	1,011	1,641	1,415	11,505	65	187	724
Water transport (not waterfront)	3,867	343	94	2,549	1,391	4	58	307
Air transport	674	217		713				245
Post and telegraph	13,254	4,450	13,998			4,734		
Distribution and finance —			55,141		55,091			
Wholesale and retail trade Storage	28,261	158	322	403	31	11	28,507	68
Finance	6,067	3,137	1,210	5,015	764			2,606
Insurance	2,789	1,767	614	2,355	411			1,589
Real estate	1,187	570		1,195				565
Wool and grain stores (seasonal)	2,003	38		2,075				29
Domestic and personal services—								
Provision of lodging, food, etc.	6,910	9,793	231	6,774	309			9,604
Portrait and photo studios	307	448		402				558
Laundries, cleaning, etc.	1,576	1,856		1,647				1,940
Barbers, beauty shops, etc.	853	1,302		813				1,311
Recreation, sport, etc.	3,122	1,224	877	850	1,622	349	41	858
Undertaking	565	67		148	225		3	30
Administration and professional —								
Hospitals	5,481	14,594	1,390	4,216	183	1,289	12,103	1,926
Medical and allied services	519	1,746	42	483	549			814
Education and instruction	10,445	11,765	1,566	8,637	784	1,253	9,521	1,595
Arts, sciences, and religion	309	162		310				160
Government services (n.e.i.)	13,030	4,486	13,514			4,987		
Local authorities	7,200	733		7,193				779
Miscellaneous services and agencies	3,414	4,142		3,417				4,364
Totals	366,344	136,668	79,831	35,302	261,610	16,970	23,385	97,927

* These figures are inclusive of working proprietors.

NOTE.—The above table does not include Armed Forces personnel, numbering 10,900 in April 1952, and 12,100 in April 1953, or persons engaged in farming, fishing, hunting, waterfront work, one-man business units, etc., estimated to total 238,000 in April 1952 and 240,000 in April 1953.

An effective correlation of the figures shown in the preceding tables with those of employment in factories found on pages 554–558 of this volume is precluded by the differing definitions of "manufacturing industry"; furthermore, the national employment tabulations differ from factory production statistics in including managers and foremen, clerical workers, and distributing staff attached to manufacturing establishments in one figure with factory operatives.

Apprenticeships.—Legal provisions governing apprenticeship contracts have been summarized on pages 950–952. The respective numbers of such contracts registered during the year, and in force at the end of the year, are indicated in the following table for each of the years ended 31 March 1952 and 31 March 1953.

Trade	Apprenticeship Contracts					
	Registered During Year Ended 31 March		Completed During Year Ended 31 March		In Force at 31 March	
	1952	1953	1952	1953	1952	1953
Aircraft	21	39	19	19	35	84
Baking	52	39	43	47	178	141
Boilermaking	23	33	12	12	63	73
Boot repairing	22	21	16	12	73	68
Bricklaying	33	23	11	6	72	83
Carpentering	843	980	476	497	3,180	3,522
Clothing	73	44	68	58	279	258
Coachbuilding	203	236	136	108	660	728
Coopering	2		1	2	5	2
Dentistry	7	7	12	10	35	31
Electrical	312	234	196	150	1,115	1,069
Engineering	308	287	334	297	1,432	1,283
Motor engineering	578	712	398	462	2,204	2,358
Footwear manufacture	52	62	39	37	183	180
Furniture	278	225	221	212	1,076	998
Gardening	18	18	11	8	70	73
Hairdressing	28	29	23	36	115	95
Jewellery	32	36	27	35	139	128
Lead burning		1				5
Masonry	2	2	1	5	13	10
Moulding	10	13	15	16	57	51
Painting	140	119	84	85	453	443
Photo engraving	22	18	12	17	87	84
Plastering	41	80	26	25	188	225
Plumbing	173	177	98	80	619	691
Printing	133	128	102	131	609	570
Radio		37		19		99
Refrigeration servicing		31		14		81
Saddlery, leather, and canvas goods	10	8	14	9	43	37
Sheet-metal working	31	25	28	41	147	126
Shipbuilding	20	16	20	25	85	71
Ironwork work		11		11	3	3
Other		24	32	16	142	72
Totals	3,488	3,687	2,457	2,492	13,325	13,722

* Exclusive of lapses and cancellations.

VACANCIES, PLACEMENTS, AND DISENGAGED PERSONS.—In addition to the above-described half-yearly surveys of the employment position as a whole, the Department of Labour and Employment maintains a month-to-month record of vacancies, placements, and disengaged persons seeking work.

Notified Vacancies.—For some years past insufficient labour has been available to satisfy the demands of industry; though diminished in intensity this shortage still persists. Its extent and distribution may be measured to some degree by the number of unnotified vacancies at the end of each month. Particulars of such vacancies at the end of each month from December 1952 to December 1953 (together with monthly averages for the calendar years 1946-53 inclusive), are shown by district groupings in the following table. This table does not necessarily cover the same establishments as the preceding tables derived from half-yearly surveys; on the one hand it does not exclude vacancies on farms, in seasonal manufacturing industry, and in domestic service; but on the other hand it includes only those vacancies which have been notified to a district office of the Department of Labour and Employment in its capacity as a placement service.

—	Auckland	Wellington and Lower Hutt	Other North Island	Christchurch	Dunedin	Other South Island	Totals
<i>Monthly Average Over Calendar Years</i>							
1946	5,109	5,978	2,384	2,626	2,265	1,345	19,807
1947	4,689	8,111	3,234	3,347	3,022	1,993	24,396
1948	4,309	7,829	3,238	3,259	3,048	1,804	23,487
1949	3,234	7,191	3,090	2,759	2,782	1,707	20,762
1950	3,288	7,175	3,918	2,791	3,211	1,962	22,445
1951	3,090	6,607	4,445	2,948	2,623	2,255	21,968
1952	2,554	5,193	3,539	2,398	1,832	2,131	17,647
1953	1,648	3,521	2,761	1,266	945	1,258	11,399
1952—	<i>Monthly Totals</i>						
December	1,784	3,827	2,925	1,696	1,299	1,567	13,098
1953—	<i>Monthly Totals</i>						
January	1,717	3,817	3,016	1,504	1,143	1,437	12,634
February	1,786	4,102	2,933	1,575	1,140	1,537	13,073
March	1,711	3,986	2,897	1,482	953	1,455	12,484
April	1,663	3,842	2,829	1,530	936	1,411	12,211
May	1,481	3,635	2,490	1,402	923	1,271	11,202
June	1,408	3,336	2,570	1,193	845	1,114	10,466
July	1,448	3,254	2,567	929	838	1,075	10,111
August	1,457	3,283	2,586	977	810	1,054	10,167
September	1,639	3,290	2,517	1,043	890	1,174	10,553
October	1,668	3,187	2,739	1,106	913	1,195	10,808
November	1,936	3,261	3,129	1,216	989	1,226	11,757
December	1,857	3,262	2,864	1,236	963	1,144	11,326

Placements.—An industrial analysis of placements by the National Employment Service during each month from December 1952 to December 1953 (with totals for 1946-53 inclusive), follows: not all these placements were, however, of disengaged persons.

—	Primary Industry	Building and Construction	Power, Water, and Sanitary Services	Manufacturing Industry	Transport and Communication	Distribution and Finance, etc.	Domestic and Personal Services	Administration and Professional	Totals
<i>Annual Totals</i>									
1946	4,756	3,680	—	8,322	1,803	2,517	1,856	1,958	24,492
1947	5,183	2,632	320	6,822	1,243	2,772	1,492	1,752	22,216
1948	5,339	2,747	269	5,826	1,030	1,784	1,357	1,913	20,265
1949	5,579	2,819	300	6,177	1,352	1,716	1,600	2,007	21,550
1950	6,129	2,802	335	6,348	974	1,726	1,457	2,009	21,780
1951	5,796	3,020	376	6,595	1,530	1,815	1,677	2,158	22,967
1952	5,402	3,549	382	7,041	1,939	1,631	1,700	2,411	24,055
1953	4,862	3,881	298	6,954	1,452	1,560	1,485	2,196	22,688
1952—	<i>Monthly Totals</i>								
Dec.	196	122	16	400	90	103	104	85	1,116
1953—	<i>Monthly Totals</i>								
Jan.	844	336	30	709	235	206	122	419	2,901
Feb.	1,108	440	18	824	145	175	145	217	3,072
March	692	288	33	597	141	154	131	118	2,154
April	392	341	25	663	91	112	123	211	1,958
May	232	345	33	675	176	124	144	221	1,950
June	214	395	26	616	87	108	137	141	1,724
July	281	346	28	628	129	113	142	198	1,865
Aug.	191	332	21	622	89	107	113	157	1,632
Sept.	191	296	22	440	70	104	122	105	1,350
Oct.	238	319	29	465	72	112	121	154	1,510
Nov.	197	295	18	456	160	139	116	174	1,555
Dec.	282	148	15	259	57	106	69	81	1,017
* Included in manufacturing industry.									

A classification of these placements by district grouping is contained in the next table.

—	Auckland	Wellington and Lower Hutt	Other North Island	Christchurch	Dunedin	Other South Island	Totals
<i>Annual Totals</i>							
1946	2,921	2,804	7,983	3,033	2,690	5,061	24,492
1947	2,474	3,072	6,302	2,464	1,139	5,765	22,216
1948	2,313	2,924	5,609	2,362	1,536	5,521	20,265
1949	2,997	2,643	5,828	2,466	1,970	5,646	21,550
1950	3,520	2,406	5,468	2,196	1,760	6,430	21,780
1951	3,783	3,235	5,346	2,372	2,182	6,049	22,967
1952	4,395	3,942	4,767	2,744	2,537	5,670	24,055
1953	4,088	3,980	4,526	2,195	3,019	4,880	22,688
1952—	<i>Monthly Totals</i>						
December	342	111	159	109	167	228	1,116
1953—	<i>Monthly Totals</i>						
January	362	688	465	256	259	871	2,901
February	505	371	321	286	380	1,209	3,072
March	463	252	299	212	205	743	2,154
April	397	332	334	151	170	374	1,958
May	424	461	353	239	250	223	1,950

—	Auckland	Wellington and Lower Hutt	Other North Island	Christchurch	Dunedin	Other South Island	Totals
June	352	—	247	393	155	341	236
July	291	—	440	516	158	249	211
August	425	—	237	363	165	248	194
September	214	—	231	349	143	226	187
October	224	—	261	404	174	258	189
November	264	—	358	327	161	258	187
December	167	—	122	202	95	175	256

Summary.—The following table contains a summary of the numbers of notified vacancies, placements, and disengaged persons as recorded by the National Employment Service for each month from December 1952 to December 1953, together with monthly averages for the calendar years 1946-53 inclusive.

—	Vacancies at End of Month			Placements During Month			Disengaged Persons at End of Month		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
<i>Monthly Average Over Calendar Years</i>									
1946	8,422	11,385	19,807	1,771	270	2,041	368	18	386
1947	12,225	12,171	24,396	1,465	386	1,851	83	9	92
1948	12,161	11,326	23,487	1,243	446	1,689	61	6	67
1949	11,055	9,708	20,763	1,313	483	1,796	88	4	92
1950	13,165	9,280	22,445	1,320	495	1,815	34	4	38
1951	13,690	8,278	21,968	1,390	524	1,914	29	9	38
1952	11,733	5,914	17,647	1,470	535	2,005	33	14	47
1953	7,944	3,455	11,399	1,361	530	1,891	67	18	85
1952—	<i>Monthly Totals</i>								
Dec.	9,047	4,051	13,098	810	306	1,116	45	17	62
1953—	<i>Monthly Totals</i>								
Jan.	8,988	3,646	12,634	1,834	1,067	2,901	40	21	61
Feb.	9,209	3,864	13,073	1,837	1,235	3,072	28	24	52
March	8,892	3,892	12,484	1,423	731	2,154	37	12	49
April	8,679	3,323	12,211	1,371	587	1,958	37	19	56
May	7,856	3,346	11,202	1,599	441	1,950	52	15	67
June	7,231	3,235	10,466	1,369	355	1,724	114	18	132
July	6,934	3,177	10,111	1,463	402	1,865	133	23	156
Aug.	7,017	3,150	10,167	1,314	318	1,632	83	27	110
Sept.	7,268	3,285	10,553	1,097	253	1,350	88	15	103
Oct.	7,339	3,469	10,808	1,193	317	1,510	78	9	87
Nov.	8,201	3,556	11,757	1,183	372	1,555	56	20	76
Dec.	7,717	3,609	11,326	741	276	1,017	56	14	70

The number of disengaged persons still enrolled for placement by the National Employment Service reached its lowest level (12) at the end of March 1951. The lowest figure recorded during 1953 was 49 in March of that year. It has usually been found that a considerable proportion of those concerned were suffering from some form of disability, making placement in suitable employment a matter of some difficulty.

EMPLOYMENT ON FARMS.—The omission of farm employment from the National Employment Service statistics shown on the preceding pages is partly made good by figures derived from a special census of agriculture taken in 1950.

The following table gives statistics of farm workers and farm population as at 31 January 1950. The statistics cover persons actually residing on holdings of 1 acre and over situated outside borough boundaries.

Members of occupier's family—		
(a) Performing full-time farm work—		
Males—		
15 and under 21 years old		6,223
21 years old and over		74,429
Females—		
15 and under 21 years old		651
21 years old and over		2,115
(b) Regularly performing part-time work (i.e., not less than 14 hours per week)—		
Males—		
Under 15 years of age		742
15 and under 21 years old		1,249
21 years old and over		8,351
Females—		
Under 15 years of age		334
15 and under 21 years old		1,275
21 years old and over		10,739
(c) Not regularly performing farm work (i.e., less than 14 hours per week)—		
Males—		
Under 15 years of age		53,209
15 and under 21 years old		6,350
21 years old and over		16,760
Females—		
Under 15 years of age		49,282
15 and under 21 years old		8,569
21 years old and over		72,099
(d) Total resident members of family (a) + (b) + (c)—		
Males—		
Under 15 years of age		53,951
15 and under 21 years old		13,822
21 years old and over		99,540
Females—		
Under 15 years of age		49,616
15 and under 21 years old		10,495
21 years old and over		84,953
Farm employees, other than members of family, but excluding casual and temporary workers—		
Males—		
15 and under 21 years old		3,217

Members of occupier's family —		
21 years old and over		16,028
Females—		
15 and under 21 years old		261
21 years old and over		1,072
Casual or temporary workers actually resident on farms at 31 January 1950—		
Males—		
Under 15 years of age		175
15 and under 21 years old		486
21 years old and over		3,215
Females—		
Under 15 years of age		115
15 and under 21 years old		172
21 years old and over		797
All other residents on farms, including domestics, boarders, members of farm employees' families, etc.—		
Males—		
Under 15 years of age		9,427
15 and under 21 years old		1,213
21 years old and over		3,741
Females—		
Under 15 years of age		8,345
15 and under 21 years old		1,170
21 years old and over		11,267
Total farm population at 31 January 1950—		
Males—		
Under 15 years of age		63,553
15 and under 21 years old		18,738
21 years old and over		122,524
Females—		
Under 15 years of age		58,076
15 and under 21 years old		12,098
21 years old and over		98,089

Statistics of farm workers and farm population (as above) were collected in far greater detail in 1950 than at any time previously; consequently much of the data are not comparable with earlier collections. However, a comparison between the censuses of 1930 and 1950 shows that, while farm workers have fallen from 135,909 to 125,610, the total farm population has increased from 345,770 in 1930 to 373,078 in 1950. The decrease in the number of farm workers can be attributed largely to changes in farming methods, in particular, improved types and increased use of farm machinery.

SEASONAL FLUCTUATIONS IN EMPLOYMENT.—The adoption of the maintenance of full employment as a desideratum in many countries has prompted research into various employment problems, including that of the fluctuation or periodicity of employment. Information on the annual cycle of employment in New Zealand is available for those industries which are covered by the half-yearly survey. The following table shows the month-to-month variations in male employment in seasonal industries for the period of thirteen months from April 1952 to April 1953. The seasonal changes in female employment are less marked, such fluctuations as are evident originating mainly in the fruit and vegetable preserving industry.

—	Meat Processing, etc.	Fruit and Vegetable Preserving	Dairy Factories	Wood Stores	Totals, Seasonal Industry
1952					
	<i>Males</i>				
April	15,691	636	3,910	2,002	22,239
May	14,584	643	3,662	1,356	20,245
June	12,734	697	3,389	1,041	17,861
July	10,766	682	3,134	1,000	15,582
August	10,691	691	3,434	1,021	15,837
September	10,206	679	4,069	1,057	16,011
October	9,654	724	4,532	1,623	16,533
November	9,247	765	4,737	2,559	17,308
December	12,704	937	4,758	2,818	21,217
1953					
January	17,102	1,006	4,750	2,904	25,762
February	17,247	864	4,550	2,658	25,319
March	16,721	918	4,292	2,343	24,274
April	16,471	743	4,072	2,074	23,360

PUBLIC WORKS.—Since 1935 figures have been available which include not only the number of workers in the direct employ of the Public Works Department (now subdivided into the Ministry of Works and the State Hydro Electric Department), but also those employed by contractors for public works, and those employed by local authorities on (a) works which are financed wholly or partly by the Ministry of Works, and (b) highway or road construction and maintenance. In the next table figures on this basis are given for the years 1943 to 1953 and at quarterly intervals from December 1952 to December 1953. Departmental and contractors' workmen on Housing Division work are now included.

PERSONS ENGAGED ON PUBLIC WORKS (INCLUDING HYDRO ELECTRIC WORKS AND HOUSING)

—	Hydro Electric Works		Roads	Irrigation	Land Development, etc.
	State Hydro Electric Department	Ministry of Works			
Average for calendar year—					
1943	1,768		2,614	190	127
1944	2,754		2,816	236	133
1945	2,919		2,880		491
1946	3,249		3,380		555
1947	1,575	2,087	4,205	206	296
1948	1,657	2,166	4,446	153	282
1949	1,721	2,174	4,515	121	370
1950	1,945	2,465	4,472	148	336
1951	2,303	2,515	4,361	133	354
1952	2,501	2,825	4,459	102	338
1953	2,725	3,483	4,276	100	259
Month—					
1952—December	2,581	2,927	4,526	98	264
1953—March	2,667	3,286	4,388	102	243
June	2,757	3,709	4,210	107	264
September	2,752	3,733	4,159	101	269
December	2,871	3,478	4,169	81	253

—	Hydro Electric Works		Roads	Irrigation	Land Development, etc.
	State Hydro Electric Department	Ministry of Works			
Average for calendar year—					
1943	1,984	870	466	6,485	14,504
1944	4,052	324	475	3,493	14,283
1945	4,540	250	454	2,564	14,098
1946	5,427	399	396	2,273	15,679
1947	6,092	382	249	2,037	17,129
1948	7,079	417	134	1,885	18,219
1949	7,609	417	213	1,865	19,005
1950	6,902	436	333	1,849	18,886
1951	4,961	377	336	1,766	17,106
1952	4,968	386	551	1,772	18,102
1953	5,833	390	660	1,908	19,634
Month—					
1952—December	5,575	386	851	1,866	19,074
1953—March	5,853	437	683	1,768	19,427
June	6,044	391	603	1,879	19,964
September	5,871	374	622	2,164	20,045
December	5,553	328	615	1,777	19,125

The figures shown in this table and also those in the table below on local authority employment are included in the national employment tables already presented.

Local Authority Statistics.—The following table shows employment by local authorities for each month from April 1947 to March 1952. Employees of Electric Power Boards are included here as well as in factory employment. Those of Hospital Boards are not included and those of Fire Boards are included only from April 1950.

Month	1947-48	1948-49	1949-50	1950-51	1951-52
April	19,403	19,967	20,382	21,283	20,417
May	19,520	20,090	20,533	21,471	20,883
June	19,562	20,366	20,829	21,505	20,980
July	19,752	20,390	21,007	21,704	21,168
August	19,810	20,537	21,276	21,744	21,390
September	19,841	20,516	21,183	21,043	20,956
October	19,971	20,720	21,021	21,333	21,006
November	20,051	20,625	21,030	21,139	21,058
December	20,116	20,535	20,893	21,232	20,915
January	19,848	20,153	20,749	20,951	20,861
February	20,078	20,370	20,667	20,918	20,892
March	19,845	20,490	20,919	20,358	20,815

Chapter 40. SECTION 40—INDUSTRIAL UNIONS

Table of Contents

INTRODUCTORY: Legislative Authority.—In New Zealand dual provision for the registration and protection of unions of workers and of employers exists in the Trade Unions Act and the Industrial Conciliation and Arbitration Act, and further provision has been made in the Industrial Conciliation and Arbitration Amendment Acts of 1936, 1943, 1947, and 1951, references to which are made in Section 38 of this volume. The 1936 amendment resulted in a considerable increase in membership of unions both of employers and of workers.

The 1951 Amendment Act requires certain provisions to be included in the rules of industrial unions, especially that elections of officials are to be made by secret ballot of financial members or by such other democratic method as may be approved by the Registrar of Industrial Unions. The Registrar may refuse any unreasonable or oppressive rule, subject to a right of appeal by the union to the Court of Arbitration. He may also, on application by at least ten financial members, refer to the Court for inquiry a disputed election of union officials. Secret ballots are required to validate subscriptions in excess of 1s. weekly and levies on union members. Penalties are prescribed in the case of a strike or lockout initiated without the taking of a secret ballot.

Provision is made under section 17 of the Industrial Conciliation and Arbitration Act 1925 for the furnishing of an annual return showing the number and membership as at 31 December of unions registered under the Act. It is from this return (see parliamentary paper H-11) that the tables in this Section have been compiled. Very little information is available as to registration of unions under the Trade Unions Act, which is now practically inoperative. The number of unions registered under this Act as at the end of 1953 was three only. Unions registered under the Trade Unions Act may also be registered under the Industrial Conciliation and Arbitration Act.

General.—The following paragraphs give a brief outline of the constitution, government, objects, and powers of industrial unions.

Constitution.—An industrial union is constituted in accordance with the provisions of the statute under which it has been registered. Its membership consists of workers or employers in a specified industry or group of related industries while its territorial scope is defined with reference to localities, industrial districts, the North or South Island, or the country as a whole. Minimum membership requirements in the case of a union of employers are as follows: jurisdiction in one district only, not less than three members; two or more districts or in North or South Island, all the employers in the North Island or in the South Island, or a branch of not less than three members in each of at least two districts; and in New Zealand as a whole, all the employers in New Zealand, or a branch of not less than three members in each of at least four districts. For a union of workers the corresponding requirements are jurisdiction in one district only, a society of 15 workers in the industry (if less than 15, then not less than one-quarter of the number engaged, with a minimum of 5); in two or more districts or in the North or South Island, a branch having 15 members (or one-quarter of the number engaged, but not less than 5) in each of at least two districts; and in New Zealand as a whole, a branch having 15 members (or one-quarter of the number engaged, but not less than 5) in each of at least four districts. There are three exceptions to these requirements—namely, an incorporated company if an employer of labour, which can be registered individually, a trade union registered under the Trade Unions Act 1908, and certain organizations of Government railway employees, special statutory provisions applying to these.

Government.—The method of government and the objects of a union are provided for in the rules recorded when the union is registered, any amendments becoming effective only after having been also registered. A Committee of Management, either appointed or elected according to the rules, provides the executive aspect of the union. Government is exercised by regular meetings of the union where this is possible, together with half-yearly or annual general meetings. With larger unions having a wider coverage, to preserve the democratic aspect of each member having a right to participate in control, the practice is to establish branches (or sub-branches), conferences attended by delegates elected by the various branches are held as required, normally annually, while provision is sometimes made in the rules or by statute for the determination of certain questions by secret postal or other ballot of all financial members, or for the ratification of conference decisions upon specified matters by a majority of the branches. In some unions a Council, comprising the officers of the union together with an elected representative from each of several groups of branches, is set up to meet quarterly or as deemed necessary for the transaction of important business, with a subsidiary committee (usually called the executive), comprising the officers and a specified number of other elected members resident in reasonable proximity, to deal with day-to-day matters.

Objects.—The primary object of an industrial union is to protect or promote the interests of either employers or workers in a specified industry or related industries in New Zealand or in a specified locality, the interest being purely industrial and relating exclusively to wages, hours, and conditions of employment. Ancillary objects are as follows:

- To enter into industrial agreements relating to conditions of employment and, where necessary, to refer industrial disputes to Councils of Conciliation (upon which the union is entitled to be represented by its Chairman or Secretary or by a specified number of persons appointed in writing or in such other manner as its rules prescribe);
- To affiliate with or be a member of any industrial association in the industry or any organization formed for the purpose of protecting or promoting the interests of employers or workers throughout New Zealand;
- To take or empower such legal and other lawful proceedings as may be necessary for the conduct of the union's business;
- To invest the funds; and
- To exercise such other rights and powers as may be authorized by law upon industrial unions registered under the Act.

Powers.—The powers of a union are limited to those authorized by statute, and the manner in which such powers may be exercised, where not specifically mentioned in the statute, must be set out in the rules. It cannot use its funds for any purpose foreign to the purposes for which it is established, nor can it commence any project nor use its funds in any manner not contemplated by the Act under which it is registered. But while an industrial union registered under the Industrial Conciliation and Arbitration Act would have no power to collect and administer funds for political purposes, a union in which membership is by law obligatory as a condition of a person's lawful employment in any position is empowered, under the Political Disabilities Removal Act 1936, to apply its funds in furtherance of political objects if a majority of all the members of the union so decide by a resolution passed on a ballot of the members, taken in accordance with its rules. Further, a union in which no such legal obligation of membership exists may exercise such power, if a majority of the total valid votes recorded at any such ballot is in favour of the proposal.

In the tables which follow—particularly that for workers' unions—a union which extends over more than one industrial district without covering either the whole of New Zealand or the whole of the North Island or the whole of the South Island, is included under "number of unions" in the district where the greatest number of members is located. Under "membership," however, the number of members is distributed over the various districts according to the best estimates available, either from previous H-11 returns or from census figures of occupations grouped into such districts.

INDUSTRIAL UNIONS OF EMPLOYERS.—The numbers and membership of industrial unions of employers registered under the Industrial Conciliation and Arbitration Act as at the end of each of the years 1948 to 1952 are shown in the following table.

As at 31 December	Industrial District											Totals	
	Northern	Wellington	Canterbury	Otago and Southland	Taranaki	Marlborough	Nelson	Westland	North Island	South Island	New Zealand		
<i>Number of Unions</i>													
1948	46	85	42		36	12	4	9	8	5	3	11	277
1949	49	87	40		39	12	4	10	7	4	3	11	282
1950	48	83	41		36	11	4	12	6	3	3	30	277
1951	51	79	40		38	9	4	10	6	5	2	29	273
1952	47	82	42		38	8	5	10	6	5	1	30	274
<i>Membership</i>													
1948	3,828	2,876	1,470		1,568	493	62	269	132	65	73	6,975	17,811
1949	4,132	3,086	1,486		1,673	415	62	303	122	69	72	6,976	18,396
1950	3,815	3,114	1,446		1,562	509	64	325	143	58	71	7,281	18,388*
1951	4,163	3,166	1,493		1,602	511	59	327	139	97	22	7,441	19,020†
1952	4,210	3,236	1,609		1,593	466	85	321	139	100	8	7,784	19,551‡

* Membership of 272 unions only; membership of 5 unions (Northern District, 1; Wellington, 1; Taranaki, 1; and Nelson, 2) not available. Membership of these 5 unions in 1949 was 42.

† Membership of 271 unions only; membership of 2 unions (Northern District, 1; Wellington, 1) not available. Membership of these 2 unions in 1950 was 4.

‡ Membership of 270 unions only; membership of 4 unions (Wellington District, 1; Canterbury, 2; and Otago and Southland, 1) not available. Membership of these 4 unions in 1951 was 45.

The number of unions of employers and their membership rose gradually to 149 unions, with 5,819 members, in 1914, the year following that of the prolonged waterside workers' strike. From that year until the passing of the 1936 Act membership figures remained fairly constant. The effects of the 1936 amending Act may be judged from the fact that the 1945 figure of membership showed an increase of approximately 200 per cent over the 1935 total. Further increases subsequently took place, and the 1952 figure of 19,551 was the highest yet recorded. A certain amount of duplication, however, exists in employers' union membership, many employers belonging to two or more unions.

INDUSTRIAL UNIONS OF WORKERS.—Industrial unions of workers and their membership are shown in the next table as at the end of each of the last five years. It should be noted that the statistics cover only unions registered under the Industrial Conciliation and Arbitration Act.

The membership of workers' unions rose year by year, without exception, from 17,989 in 1900 to 73,991 in 1914. It fell off during the period of the First World War, but a phenomenal rise was recorded in 1919, the year immediately following the cessation of hostilities. The total for 1928 (103,980) was the highest recorded up to and inclusive of 1935, but is far below the present figures. The 1936 amending Act, which provided for compulsory union membership on the part of workers subject to and award or industrial agreement, has, of course, been responsible for the high figures of later years.

From 1940 to 1943 the decreased membership reflected to a certain extent the withdrawal of men from industry consequent on the prosecution of the war, but in each of the subsequent years 1944 to 1949 increases in membership were recorded. Compared with 1935, the year prior to the introduction of compulsory union membership, the 1949 figure (275,977) showed an increase of 195.048, or 241 per cent. The 1950 and 1951 figures (267,225 and 272,843 respectively) showed a recession from the general upward trend in membership of workers' unions. The upward trend was resumed, however, in 1952 and a new record level attained of 283,456 members. The 1950 figure is known to have excluded the membership of five workers' unions which had in the previous year a combined membership of 8,554. The prolonged waterfront strike of 1951, to which in fact the deficiency in the 1950 figures was indirectly due, led to the deregistration of national or district unions in several industries (refer to page 990). By 31 December 1951 many members of these unions had not yet joined the new local unions which took their place, but a year later union membership had again become normal. A provisional figure for 31 December 1953 is 290,149.

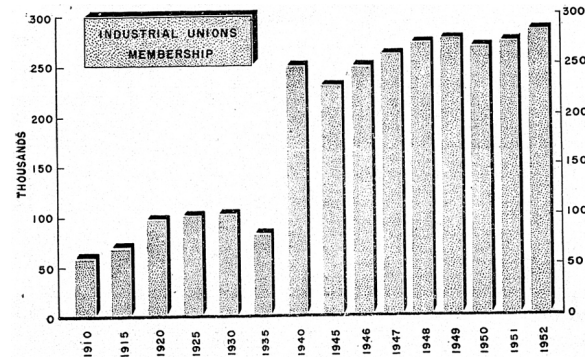
As at 31 December	Industrial District											Totals	
	Northern	Wellington	Canterbury	Otago and Southland	Taranaki	Marlborough	Nelson	Westland	North Island	South Island	New Zealand		
<i>Number of Unions</i>													
1948	86	59	40		86	18	7	17	20	3	1	37	374
1949	86	58	40		87	18	7	18	17	4	1	36	372
1950	85	60	40		87	16	7	17	16	3	1	38	370
1951	96	82	42		92	19	9	24	12	3	1	35	415
1952	100	81	42		89	19	9	20	16	3	1	35	415
<i>Membership</i>													
1948	54,587	42,143	25,047		23,773	2,879	753	1,770	3,646	2,909	32	113,561	271,100
1949	58,690	43,857	25,720		23,943	3,005	733	1,888	3,508	3,477	30	111,126	275,977
1950	57,212	44,819	25,628		23,716	3,751	1,186	2,099	3,335	3,228	31	102,220	267,225*
1951	62,052	42,082	27,461		24,781	4,298	1,350	2,434	3,000	3,367	32	101,986	272,843†
1952	64,448	45,430	27,811		25,220	4,979	1,413	2,465	3,417	3,392	32	104,849	283,456‡

* Membership of 365 unions only; membership of 5 unions (Northern District, 2; Otago and Southland, 1; Taranaki, 1; and New Zealand, 1) not available. Estimated membership of these 5 unions in 1949 was 8,554.

† Membership of 411 unions only; membership of 4 unions (Otago and Southland District, 2; and Nelson, 2) not available. Estimated membership of these 4 unions in 1950 was 114.

‡ Membership of 414 unions only; membership of one union (Otago and Southland District) not available. Membership of this union in 1951 was 40.

A further indication of the progress that has taken place in the membership of workers' unions is afforded by the accompanying diagram, which shows the numbers at five-yearly intervals from 1910 to 1945, and annually thereafter.



In the following table industrial unions of workers are classified according to membership.

Year	Number of Unions											Totals					
	Under 100	100 and Under 200	200 and Under 300	300 and Under 500	500 and Under 1,000	1,000 and Under 2,000	2,000 and Under 3,000	3,000 and Under 5,000	5,000 and Under 10,000	10,000 and Over							
<i>Number of Unions</i>																	
1901	142	30	19	5	4	1						202					
1911	182	53	26	23	14	8					1	307					
1921	239	70	36	28	28	11				2		418					
1931	239	58	31	30	29	14				3		405					
1941	184	70	38	38	32	27				13		5	2	419			
1948	146	60	38	33	38	24				12		7	3	374			
1949	137	67	41	30	38	25				10		13		372			
1950	135	60	44	32	39	24				13		12		370			
1951	165	69	44	38	39	28				11		11		3	415		
1952	159	72	46	35	41	27				13		7		3	415		
<i>Membership</i>																	
1901	5,777	4,032	4,815	2,073	2,520	1,651				2,900					23,768		
1911	7,521	7,686	6,360	8,879	9,685	9,414									55,629		
1921	11,222	9,708	9,182	11,066	18,527	14,580				7,433					97,719		
1931	9,969	7,966	7,578	11,244	20,602	18,566				6,744					90,526		
1941	7,909	9,768	9,207	15,060	22,841	35,417				31,012			41,191		29,657	231,049	
1948	6,929	8,728	9,199	12,417	25,915	32,239				28,344			47,797		45,152	54,380	271,100
1949	6,484	9,644	9,952	12,315	27,412	35,351				24,052			49,127		48,269	53,371	275,977
1950	6,300	8,210	10,152	12,445	27,732	31,432				30,839			47,298		41,511	51,306	267,225
1951	7,761	10,225	10,394	14,671	27,274	39,658				27,364			43,218		40,278	52,000	272,843
1952	7,380	10,226	10,941	13,757	28,977	37,104				31,140			47,471		44,187	52,273	283,456
<i>Percentage of Total Membership</i>																	
1901	24.3	17.0	20.3	8.7	10.6	6.9				12.2							100.0
1911	13.5	13.8	11.4	16.0	17.4	16.9											100.0
1921	11.5	9.9	9.4	11.3	19.0	14.9				7.6			6.7				100.0
1931	11.1	8.8	8.4	12.4	22.8	20.5				7.4							100.0
1941	3.5	4.2	4.0	6.5	9.9	15.3				13.4			17.8				100.0
1948	2.5	3.2	3.4	4.6	9.6	11.9				10.5			17.6				100.0
1949	2.4	3.5	3.6	4.5	9.9	12.8				8.7			17.8				100.0
1950	2.4	3.1	3.8	4.6	10.4	11.8				11.5			17.7				100.0
1951	2.9	3.7	3.8	5.4	10.0	14.5				10.0			15.9				100.0
1952	2.6	3.6	3.9	4.9	10.2	13.1				10.9			16.8				100.0

There has been a more or less steady growth in the average size of workers' unions, the trend being to a certain extent obscured at times by the cancellation of registration by some large unions. An average membership of 118 in 1901 increased in 1921 to 234, in 1941 to 551, and in 1949 to 742. The average membership of the 414 workers' unions for which particulars were available in 1952 was 685.

INDUSTRIAL AND GEOGRAPHICAL DISTRIBUTION.—In the next table industrial unions of employers as at the end of 1952 are shown according to industrial group, and membership according to industrial group and district.

Industrial Group	Membership—Industrial District											Totals	Number of Unions					
	Northern	Wellington	Canterbury	Otago and Southland	Taranaki	Marlborough	Nelson	Westland	North Island	South Island	New Zealand							
Provision of—																		
Food, drink, etc.	2,131	635	345		741	291	12	127	41						79	4,402	59	
Clothing, footwear, and textiles	42	83	50		6										2,700	2,881	11	
Building and construction	1,195	1,093	518		434	108		54	133	6						3,541	53	
Power, heat, and light		531	112		155											109	707	11
Transport by water	15	24	19		8	9		4	5	4						22	110	14
Transport by land	136	134	50		35								12		8	62	437	11
Accommodation, meals, and personal service	453	399	328		141	58		15	56	88						698	2,236	37*
Working in or on—																		
Wood, wicker, seagrass, and fibre	52	73	51		14											422	612	9
Metal	30	89	34										15			709	877	14
Stone, clay, glass, and chemicals	3	48	13		5											34	103	10

* Including 2 unions for which no membership figures are available.

† Including 1 union for which no membership figures are available.

Industrial Group	Membership—Industrial District											Number of Unions	
	Northern	Wellington	Canterbury	Otago and Southland	Taranaki	Marlborough	Nelson	Westland	North Island	South Island	New Zealand		Totals
Paper, printing, etc.	116	134	56	49							18	373	19
Skins, leather, etc.	9	12	12	3								36	7 ¹
Mines and quarries				2								2	1
The land (farming pursuits)	28	122	21						39		2,558	2,768	11 ¹
Miscellaneous		59									407	466	7
Totals	4,210	3,236	1,609	1,593	466	85	321	139	100	8	7,784	19,551	274

* Including 2 unions for which no membership figures are available.
¹ Including 1 union for which no membership figures are available.

Similar information to that given for industrial unions of employers is now given for workers' unions, as at the end of 1952.

Industrial Group	Membership—Industrial District											Number of Unions	
	Northern	Wellington	Canterbury	Otago and Southland	Taranaki	Marlborough	Nelson	Westland	North Island	South Island	New Zealand		Totals
Provision of—													
Food, drink, etc.	10,761	5,446	3,697	4,927	788	126	303		285	32	7,191	33,556	70
Clothing, footwear, and textiles	7,782	5,176	4,924	2,987								20,869	17
Building and construction	7,121	4,172	2,164	3,360	458	22	36	25			9,418	26,776	39
Power, heat, and light	303	316	176	81								876	5
Transport by water	3,421	3,101	888	1,392	306	46	148	89			2,950	12,341	47
Transport by land	4,981	2,948	2,000	1,647	508	180	448	203			22,006	34,921	24
Transport by air									132			132	1
Accommodation, meals, and personal service	6,726	6,765	2,882	3,050	445	190	250	429				20,737	26
Working in or on—													
Wood, wicker, seagrass, and fibre	1,402	1,304	910	457		40	340	990			7,852	13,295	18 ¹
Metal	838	1,322	688	855					2,975		23,094	29,772	26
Stone, clay, glass, and chemicals	1,196	579	254	388	90		125				120	2,752	20
Paper, printing, etc.	137										4,924	5,061	3
Skins, leather, etc.	705	368	173	34								1,280	8
Mines and quarries	465		52	356				1,081				1,954	17
The land (farming pursuits)	209				35						15,549	15,843	4
Miscellaneous	18,401	13,883	9,003	5,686	2,349	809	815	600			11,745	63,291	90
Totals	64,448	45,430	27,811	25,220	4,979	1,413	2,465	3,417	3,392	32	104,849	283,456	415

* Including 1 union for which no membership figures are available.

INDUSTRIAL ASSOCIATIONS.—At 31 December 1952 there were 19 industrial associations of employers and 39 of workers, the former having 140 affiliated unions and the latter 206. The following summary shows the number of industrial associations of employers and workers in each industrial group, with the number of affiliated unions in each case. In most cases the associations cover the entire country.

Industrial Group	Employers				Workers			
	Associations		Affiliated Unions		Associations		Affiliated Unions	
	1951	1952	1951	1952	1951	1952	1951	1952
Provision of—								
Food, drink, etc.	5	5	38	37	3	4	14	22
Clothing, footwear, and textiles					3	3	12	12
Building and construction	3	3	42	41	3	3	24	22
Transport by water	1	1	10	10	3	5 ¹	14	25
Transport by land	1	1	4	4	1	1	12	12
Accommodation, meals, and personal service	2	2	24	21	3	3	18	18
Working in or on—								
Wood, wicker, seagrass, and fibre	1	1	4	4	2	2	9	7
Metal					3	3	8	8
Stone, clay, glass, and chemicals	2	2	7	7	3	3	10	9
Paper, printing, etc.		2	11	11				
Skins, leather, etc.	1	1	3	3	1	1	4	4
Mines and quarries					3 ¹	2	5	4
The land (farming pursuits)	1	1	2	2	1	1	3	3
Miscellaneous					8	8	59	60
Totals	19	19	145	140	37	39	192	206

* Including one in process of cancellation.

PROPORTION OF UNIONISTS.—The following table, showing the proportion of workers belonging to unions registered under the Industrial Conciliation and Arbitration Act in the country, is of interest as manifesting the movement in and the extent of unionism during the period under review. The figures given for total wage earners are derived from census enumerations and would include professional, business, and other classes in which unionism prior to the passing of the amending Act of 1936 did not exist, and agricultural and pastoral occupations where it was practically non-existent. In addition, females are included in both sets of figures, although the proportion of women unionized prior to 1936 was negligible.

Year	Total Wage Earners
1901 (March)	224,346
1906 (April)	269,039
1911 (April)	304,272
1916 (October)	302,161
1921 (April)	370,692
1926 (April)	414,673
1936 (March)	496,563
1945 (September)	473,684
1951 (March)	577,694
1900 (December)	17,989
1905 (December)	29,869
1910 (December)	57,091
1916 (December)	71,587
1920 (December)	96,350
1925 (December)	100,540

* 1950 figures incomplete.

Year	Total Wage Earners
1935 (December)	80,929
1945 (December)	229,103
1950 (December)	267,225 ¹

* 1950 figures incomplete.

Chapter 41. SECTION 41—INDUSTRIAL DISPUTES

Table of Contents

THE compilation of statistics regarding industrial disputes was first undertaken by the Census and Statistics Department at the beginning of the year 1920. Information concerning disputes prior to that year was obtained by examination of the records of the Department of Labour and Employment.

Under the system originated in 1920 returns furnished by Inspectors of Factories from inquiries made in each district form the main source from which information is obtained. It is considered that the statistics based on these reports are less liable to bias than would be the case if parties to the dispute or other private persons were relied on to furnish the information. It is the duty of an Inspector, during the course of a dispute in his industrial district, to collect all available particulars relating to it. The Inspectors have power to make the necessary inquiries, and thus are able to obtain complete information.

In these tabulations the term "industrial dispute" refers only to those disputes which result in a strike or a lockout, or where organized "go slow" or other passive resistance methods are clearly manifested. Many disputes are, of course, settled without recourse to such measures; these are not recorded for statistical purposes.

It occasionally happens that there are strikes in different centres with the same or similar objects, and occurring at or about the same time; in such cases the several disturbances are treated as one if the available evidence is sufficient to justify such a course, and the duration is taken as the maximum duration in any centre. While the dispute itself may be tabulated under a single industrial district, the actual number of workers involved may be distributed over more than one of the districts.

Reference to enactments framed to mitigate the severity of industrial disputes will be found in Section 38D of this Year-Book.

NUMBER AND MAGNITUDE.—Although the records of the Department of Labour and Employment contain certain information regarding industrial disputes which occurred prior to 1920 (the year in which the present system of reporting was instituted), the details are not sufficiently complete to permit of a full comparison with later years. This applies also in some measure to 1920, as information under some headings did not become available until 1921. Consequently the following summary has been divided into two parts—viz., 1906–20 and 1921–53.

In the first part only the total number of disputes occurring during the period is shown, together with the number of disputes and workers involved where such information is available.

Year	Total Disputes	Disputes Where Complete Details Available	
		Number	Workers Involved
1906	1	1	88
1907	6	5	558
1908	2	2	63
1909	1		
1910	15	9	255
1911	22	17	1,375
1912	24	22	5,746
1913	73	70	13,400
1914	20	19	4,089
1915	8	6	295
1916	15	9	899
1917	45	25	2,734
1918	40	29	4,056
1919	45	32	4,030
1920	77	77	15,138

The more detailed figures for the period 1921–53 are as follows.

Year	Strikes	Lockouts	Total Disputes	Firms Affected	Workers Involved	Working Days Lost	Estimated Loss in Wages
1921	77						£
			77	112	10,433	119,208	90,477
1922	58		58	67	6,414	93,456	60,782
1923	49		49	79	7,162	201,812	114,074
1924	34		34	58	14,815	89,105	62,732
1925	81	2	83	93	9,905	74,552	49,149
1926	59		59	67	6,264	47,811	32,355
1927	38		38	40	4,476	12,485	11,819
1928	37	2	39	56	9,258	21,997	22,304
1929	46	1	47	60	7,151	25,889	26,940
1930	38		38	44	5,467	31,669	37,299
1931	23	1	24	37	6,356	48,486	44,544
1932	23		23	67	9,355	108,605	105,715
1933	15		15	43	3,558	65,099	59,334
1934	24		24	37	3,773	10,393	7,121
1935	12		12	65	2,323	18,563	15,266
1936	43		43	128	7,354	16,980	12,886
1937	52		52	73	11,411	29,916	32,129
1938	72		72	103	11,388	35,456	42,104
1939	66		66	636	15,682	53,801	60,394
1940	56	1	57	99	10,475	28,097	28,062
1941	89		89	97	15,261	26,237	34,552
1942	65		65	78	14,345	51,189	63,179
1943	69		69	114	10,915	14,687	20,179
1944	148	1	149	269	29,766	52,602	74,012
1945	154		154	1,255	39,418	66,629	92,546
1946	96		96	122	15,696	30,393	40,112
1947	134		134	234	26,970	102,725	187,669
1948	101		101	885	28,494	93,464	195,985
1949	123		123	1,315	61,536	218,172	390,773
1950	129		129	1,189	91,492	271,475	514,236
1951	109		109	354	36,878	1,157,390	3,111,307
1952	50		50	177	16,297	28,123	69,371
1953	73		73	880	22,175	19,291	48,433

The figures for strikes include details of stop-work meetings unless, as on the waterfront, provision is made for these in the relevant award or agreement. In all cases unauthorized stop-work meetings are included, also unauthorized delays in resuming work after recognized stop-work meetings. A single dispute may include, or may consist of one stop-work meeting or several stop-work meetings; if several such meetings are included, these may be held at different times or different places, provided all relate to the same issue. This class of strike has assumed considerable importance recently, the number of such cases in the five years 1949-53 being 147 (157 stop-work meetings), involving 54,553 workers, and the loss of 36,820 working days and of £79,224 in wages. In addition, the taking of unauthorized holidays (for example, on the death of a fellow-workman), and the practice of unionists absenting themselves from work for a period as a protest against an alleged injustice, have made significant contributions to the total numbers of work stoppages in recent years. In the table shown later recording methods of settlement, all such interruptions of labour are classified under the heading "Voluntary return to work". In 1949 these cases comprised 70 out of 123 stoppages; in 1950, 63 out of 129; in 1951, 59 out of 109; in 1952, 18 out of 50; and in 1953, 44 out of 73.

In calculating the number of working days lost it is assumed that work would have been continuous if no dispute had taken place. No allowance is made for loss of work from unemployment or other causes which might have occurred even if there had been no dispute, nor is the possibility taken into account of strikers being replaced with non-union labour. In some cases, such as shearing, there is a definite amount of work to be done, and a stoppage of work does not decrease the total amount of it, but only postpones its completion. In those cases the figures are perhaps more or less fictitious, but in the great majority of cases they represent a real loss.

From the preceding tables it will be seen that the number of disputes occurring in any one year was comparatively small until 1913, the high point for that year coinciding with the water-siders' and slaughtermen's strikes of the period. The total for 1913 was not surpassed until 1920 and 1921, the present system of recording industrial disputes being commenced in the latter year. In 1921 the number of disputes was at a relatively high level, but from then onwards, with the exception of one or two temporary fluctuations, the general trend in both number of disputes and number of workers involved showed a downward tendency, culminating in the low figure of 12 disputes involving 2,323 workers in 1935.

The next fifteen years exhibited a reversal of this trend, and particularly during 1946-50 the number of men going on strike each year increased, a new high level being reached in 1950 for the number of workers involved (91,492). In 1951, despite the occurrence of a most serious dispute, the number of workers involved fell to 36,878. In the latter year, however, record high levels were established in the number of working days lost (1,157,390), and in the estimated loss in wages (£2,111,307). The greatest number of disputes in one year is still, however, 154 in 1945, and of firms involved, 1,315 in 1949. There was comparative peace in industry in 1952, the number of disputes falling to 50, and the overall picture was comparable with that of a wartime year. During 1953 similar conditions prevailed, the numbers of disputes and of workers involved showing moderate increases, with the totals of time and wages lost recording further contractions. The number of working days lost (19,291) was the lowest figure registered for ten years and the second lowest since 1936.

Prior to 1951 the greatest time lost by disputes in any one calendar year was in 1950, when several serious disturbances occurred, including a general railways strike, three separate waterfront disputes, a coal-mines stoppage, and a subsidy-removal protest involving workers in some ten industries. The next highest figure of man days lost was that for 1949, when the Auckland carpenters' strike and also a general waterfront stoppage occurred. Next in order—in point of loss—came 1923 when serious disputes occurred in the coal-mining and shipping industries, 1921 (marked by strikes of waterside workers), 1932 (chiefly strikes of waterside workers and coal miners), 1947 (stoppages among waterside workers, freezing workers, and coal miners), and 1948 (disturbances in coal mining, waterfront, and building and construction industries).

The year 1951 was marked by a prolonged waterfront strike, lasting from 9 February to 17 July, and constituting the most serious industrial disturbance which has ever occurred in New Zealand. From 8 May 1950 workers under Court of Arbitration awards received an interim wage increase of 5 per cent with a maximum of 7s. weekly, while waterfront workers' wages were increased as from the same date from 4 to 4s. 3d. per hour. From 15 February 1951 the interim adjustment was replaced for award workers by an increase of 15 per cent without a maximum. This was announced on 30 January 1951, whereupon port employers offered to increase waterfront wages to 4s. hourly plus 15 per cent (i.e., to 4s. 7 1/2d. per hour). The waterfront workers claimed a greater increase, however, and negotiations shortly thereafter broke down despite Government intervention.

During the currency of this dispute the Government issued a Proclamation under the Public Safety Conservation Act 1932 declaring a state of emergency, following which Waterfront Strike Emergency Regulations were gazetted, giving powers to ensure the observance of law and order, to prevent picketing, threats, and intimidation, to employ Service labour on the waterfront, and to maintain essential supplies and services to the community. The New Zealand Waterside Workers Union was deregistered, and eventually new unions at the separate ports were formed. In the meantime other essential industries, notably coal mining, shipping, and meat freezing, became involved, with the result that the total working time lost was swollen to over 1,000,000 man days, and the total wages lost to over £3,000,000.

The only serious dispute which occurred during 1952 was a disagreement as to wages between tradesmen in freezing works and their employers. Of the total of 28,123 days lost through all disputes in that year, 13,933 days, or almost 50 per cent, were on account of this single strike.

The year 1953 was marked by frequent minor disputes of which, however, no single disturbance merits special mention. The stoppage involving the greatest loss of time (3,525 working days) was in fact a stop-work meeting.

Data for 1953 relating to the remaining tables in this Section were not available at the time of going to press.

NATURE AND DURATION.—The next table shows the nature of the disputes and the number of workers involved during the years 1942-52.

Year	Nature of Dispute				Number of Workers Involved					
	Direct Strike	Sympathetic Strike	Partial Strike	Lockout	Total	Direct Strike	Sympathetic Strike	Partial Strike	Lockout	Total
1942	63	1			65	13,934	211	200		14,345
1943	66			3	69	10,689			226	10,915
1944	144	2	2	1	149	28,893	578	232	63	29,766
1945	145	1	8		154	36,698	334	2,386		39,418
1946	92	1	3		96	15,283	270	143		15,696
1947	123	4	7		134	19,495	1,958	5,517		26,970
1948	90	3	8		101	23,745	480	4,269		28,494
1949	116	3	4		123	59,648	1,088	800		61,536
1950	129				129	91,492				91,492
1951	58	48	3		109	22,437	13,878	573		36,878
1952	50				50	16,297				16,297

* *i.e.*, where no actual cessation of work, but a "go slow" or other policy of protest adopted.

The table following illustrates the duration of disputes during 1952.

Duration	Number of Disputes	Number of Firms Affected	Number of Workers Involved	Number of Working Days Lost	Estimated Loss in Wages	
					£	
1 day and less	38		135	14,333	10,486	27,732
Over 1 day but not over 2 days	5		3	516	1,032	2,600
Over 2 days but not over 3 days	2		3	252	402	802
Over 3 days but less than 1 week	3		4	628	1,940	4,285
1 week but less than 2 weeks	1		1	30	240	335
2 weeks but less than 4 weeks						
4 weeks but less than 8 weeks	1		29	538	13,933	33,617
8 weeks and over						
Totals	50		177	16,297	28,123	69,371

GEOGRAPHICAL DISTRIBUTION.—The following table shows the number of disputes in each industrial district for the last five years and also the number of workers involved. In 1952 the Northern District had the greatest number both of strikes and of workers involved, the land transport industry being strongly represented in the number of workers involved, followed by the waterfront and the coal-mining industry.

Year	Northern	Taranaki	Wellington	Marlborough	Nelson	Westland	Canterbury	Otago and Southland	Totals
<i>Number of Disputes</i>									
1948	51	2	20		1	10	8	9	101
1949	68	3	18	2	2	12	6	12	123
1950	59	3	21			16	18	12	129
1951	44	7	22	1	5	12	9	9	109
1952	13		3		10	12	1	11	50
<i>Number of Workers Involved</i>									
1948	16,393	331	5,547		7	1,870	2,260	2,086	28,494
1949	39,084	850	10,952	159	83	3,786	3,849	2,773	61,536
1950	35,627	2,168	28,694	265	783	5,833	10,953	7,169	91,492
1951	14,646	1,186	10,100	190	981	3,767	3,684	2,324	36,878
1952	8,521	37	1,777		2,182	2,267	140	1,373	16,297

NOTE.—A dispute extending into more than one industrial district is, in the table "Number of Disputes," allocated to that district which includes the greatest number of the workers involved. The actual (or occasionally estimated) numbers of workers in the several districts are, however, correctly distributed.

INDUSTRIAL DISTRIBUTION.—In the following table industrial disputes are classified according to the industrial groups in which disputes took place, this grouping being similar to that used in the compilation of wage and industrial-union statistics.

Industrial Group	Number of Disputes				
	1948	1949	1950	1951	1952
Provision of—					
Food, drink, etc.	16	13	18	29	5
Clothing, footwear, and textiles	2	1			
Building and construction	13	6	5	3	3
Power, heat, and light		1	2		
Transport by water	20	28	35	12	5
Transport by land	4	5	5	13	2
Accommodation, meals, and personal service		1	1		
Working in or on—					
Wood, etc.	4	2	2	2	
Metal	4	1	2	2	
Stone, clay, glass, chemicals, etc.	1	4	6	4	
Paper, printing, etc.					
Skins, leather, etc.					
Mines and quarries—					
Coal mines	37	60	50	40	34
Gold mines				1	
The land (farming pursuits)					
Miscellaneous		1	3	3	1
Totals	101	123	129	109	50
<i>Number of Workers Involved</i>					
Provision of—					
Food, drink, etc.	3,785	2,560	3,188	8,217	1,274
Clothing, footwear, and textiles	142	298			
Building and construction	5,573	1,869	889	1,092	261
Power, heat, and light		24	1,600		
Transport by water	5,694	32,335	48,005	14,905	4,262
Transport by land	3,346	3,858	20,365	3,915	4,200
Accommodation, meals, and personal service		634	1,295		
Working in or on—					
Wood, etc.	111	285	263	24	
Metal	384	15	232	12	
Stone, clay, glass, chemicals, etc.	235	263	718	321	
Paper, printing, etc.					
Skins, leather, etc.					
Mines and quarries—					
Coal mines	9,224	19,285	14,498	7,839	6,227
Gold mines				105	
The land (farming pursuits)				448	
Miscellaneous		110	439	448	73
Totals	28,494	61,536	91,492	36,878	16,297

Out of a total of 512 disputes during the five years, 222, involving 57,178 workers, occurred in connection with mining and quarrying; 100, involving 105,201 workers in the group covering transport by water; 81, involving 19,024 workers in the group covering provision of food, etc. (mainly meat freezing); 30, involving 9,684 workers in the building and construction group; while in the land transport group there were 29 disputes involving, however, 35,684 workers. A more detailed analysis of disputes occurring during 1952 is given below.

Industrial Group	Number of Disputes	Number of Firms Affected	Number of Workers Involved			Number of Working Days Lost	Estimated Loss in Wages
			Directly	Indirectly	Total		
Provision of—							£
Food, drink, etc.	5	33	1,274		1,274	14,739	35,115
Clothing, footwear, and textiles							
Building and construction	3	4	261		261	617	1,059
Power, heat, and light							
Transport by water	5	39	4,005	259	4,262	2,621	7,459
Transport by land	2	63	4,200		4,200	2,100	2,580
Accommodation, meals, and personal service							
Working in or on—							
Wood, etc.							
Metal							
Stone, clay, glass, chemicals, etc.							
Paper, printing, etc.							
Skins, leather, etc.							
Mines and quarries—							
Coal mines	34	37	6,227		6,227	7,827	22,756
Gold mines							
The land (farming pursuits)							
Miscellaneous	1	1	73		73	219	402
Totals	50	177	16,038	259	16,297	28,123	69,371

CAUSES.—In the next table the causes of disputes which occurred during the last five years are shown. Under the heading "Wages" are included disputes concerning wages, overtime, or rates for piecework.

Disputes concerning the employment or non-employment of certain classes of persons are included under the heading "Employment." This question usually arises in connection with industrial union affairs, such as, for instance, the dismissal of a worker on allegedly insufficient grounds, or formerly the employment of non-unionists. Since 1936, however, all adult workers who are subject to any award or industrial agreement have been required, unless specially exempted, to be members of a union, and except when there are no unionists available an employer may not employ a non-unionist.

*Other working conditions" are of diverse nature, but some may be mentioned as follows: distribution of work in coal mines and on wharves, conveyance to and from work, atmospheric conditions in coal mines, accommodation on ships, numbers of men to be allocated to certain duties, supply of food, method of handling cargo.

Under the heading "Sympathy" are included all disputes caused by workers striking not on account of a grievance arising out of their own wages or conditions, but in sympathy with the demands of other workers.

Cause	1948	1949	1950	1951	1952
<i>Number of Disputes</i>					

Cause	1948	1949	1950	1951	1952
Wages	30	27	36	20	8
Hours	4	2		1	1
Employment	12	14	12	13	11
Other working conditions	13	9	21	2	12
Sympathy	5		1	47	
Other causes	37	71	59	26	18
Totals	101	123	129	109	50
<i>Number of Workers Involved</i>					
Wages	8,398	25,144	43,638	12,351	1,499
Hours	2,440	1,196		2,546	1,587
Employment	3,496	4,246	1,562	1,524	2,096
Other working conditions	4,809	2,529	9,063	806	1,661
Sympathy	620		41	13,873	
Other causes	8,731	28,421	37,188	5,778	9,454
Totals	28,494	61,536	91,492	36,878	16,297

There is a strong correlation between "Other causes" in the table shown above and "Voluntary return to work" in the tables immediately following. The relation between "Sympathy" and "Voluntary return to work" is a little weaker.

A further analysis by cause for the year 1952 will be found on page 996.

METHODS OF SETTLEMENT.—Following is a table showing the methods of settlement of disputes during the last five years. "Negotiations under Act" covers negotiations under the Industrial Conciliation and Arbitration Act, the Labour Disputes Investigation Act, or the Industrial Relations Act. "Voluntary return to work" includes such cases as "Protest" absence and stop-work meetings. "Substitution" implies the engagement of other workers. Other headings are self-explanatory.

Method of Settlement	1948	1949	1950	1951	1952
<i>Number of Disputes</i>					
Negotiations under Act	16	10	11	1	
Private negotiations between parties	20	7	25	12	23
intervention of third party	8	22	23	12	3
Substitution	2	1			
Voluntary return to work	38	70	63	59	18
Other	17	13	7	25	6
Totals	101	123	129	109	50
<i>Number of Workers Involved</i>					
Negotiations under Act	7,353	921	3,672	14	
Private negotiations between parties	2,180	1,701	22,020	1,108	3,445
Intervention of third party	3,071	6,178	22,741	3,586	797
Substitution	28	1,582			
Voluntary return to work	11,821	45,249	42,390	18,294	11,021
Other	4,841	5,905	469	13,876	1,034
Totals	28,494	61,536	91,492	36,878	16,297

Further information for the year 1952 is given in the next table.

Method of Settlement	Number of Disputes	Number of Firms Affected	Number of Workers Involved	Number of Working Days Lost	Estimated Loss in Wages
					£
Negotiations under Act					
Private negotiations between parties	23		3,445	4,080	11,670
Intervention of third party	3		797	14,246	34,157
Substitution					
Voluntary return to work	18		114	7,547	17,622
Other	6		8	1,034	2,250
Totals	50	177	16,297	28,123	69,371

RESULTS.—In compiling the table which follows no dispute has been included as ending in favour of either employers or workers unless the result has been beyond question. In cases where workers have made more than one demand, succeeding in one or more and failing in one or more, or where they have made one or more demands and in respect of each have been partially successful only, the result has been treated as a compromise. Where strikers have returned to work without any definite decision being arrived at regarding the demands made, or where (as in the case of a sympathetic strike) no definite demand has been made, or where a strike is merely by way of a protest, the result has been recorded as indeterminate.

RESULTS OF DISPUTES

Result	1948	1949	1950	1951	1952
<i>Number of Disputes</i>					
In favour of workers	21	18	19	10	12
In favour of employers	16	6		3	1
Compromise	5	11	37	18	16
Indeterminate	59	88	68	78	21
Totals	101	123	129	109	50
<i>Number of Workers Involved</i>					
In favour of workers	4,363	5,722	6,793	774	2,158
In favour of employers	3,305	2,042	2,093	8,621	280
Compromise	2,064	918	38,426	4,390	2,802
Indeterminate	18,762	52,854	44,180	23,093	11,057
Totals	28,494	61,536	91,492	36,878	16,297
<i>Number of Working Days Lost</i>					
In favour of workers	4,917	13,394	9,000	1,805	3,509
In favour of employers	18,844	109,953	36,160	445,631	560
Compromise	13,882	3,270	190,220	20,123	16,751
Indeterminate	55,821	91,555	36,095	689,831	7,305
Totals	93,464	218,172	271,475	1,157,390	28,123

Of disputes ended definitely in favour of one party or the other during the five years, workers succeeded in 80 instances and employers in 31. In the previous five years (1943–47) workers were successful in 166 instances and employers in 86.

CAUSES AND RESULTS.—In the following table the causes and results of disputes occurring during 1952 are shown in conjunction.

--	--

Result	Cause						
	Wages	Hours	Employment	Other Working Conditions	Sympathy	Other	Totals
<i>Number of Disputes</i>							
In favour of workers	1		4		6		11
In favour of employers			1				1
Compromise	4		5		5		14
Indeterminate	3	1	1		1		6
Totals	8	1	11		12		22
<i>Number of Firms Affected</i>							
In favour of workers	1		5		6		11
In favour of employers			1				1
Compromise	32		5		6		43
Indeterminate	3	14	1		1		19
Totals	36	14	12		13		75
<i>Number of Workers Involved</i>							
In favour of workers	98		1,180		665		2,843
In favour of employers			280				280
Compromise	905		585		927		2,417
Indeterminate	496	1,587	51		69		2,703
Totals	1,499	1,587	2,096		1,661		5,243
<i>Number of Working Days Lost</i>							
In favour of workers	98		1,390		946		3,334
In favour of employers			560				560
Compromise	14,300		1,067		999		16,366
Indeterminate	496	1,551	51		69		2,107
Totals	14,894	1,551	3,068		2,014		21,527
<i>Estimated Loss in Wages</i>							
	£	£	£	£	£	£	£
In favour of workers	300		3,995		2,850		7,145
In favour of employers			1,200				1,200
Compromise	34,773		2,115		2,826		39,714
Indeterminate	1,468	4,360	180		155		6,163
Totals	36,541	4,360	7,490		5,831		50,284

Chapter 42. SECTION 42—INDUSTRIAL ACCIDENTS

Table of Contents

GENERAL.—As a result of an international conference of official statisticians held at Geneva in 1923, under the auspices of the International Labour Office set up by the League of Nations, the collection and compilation of statistics of industrial accidents on substantially uniform lines was undertaken in the principal countries. Statistics of industrial accidents in New Zealand commenced in 1924, and descriptions of the methods adopted and coverage achieved have appeared in earlier issues of this Year-Book.

The present Section relates in particular to the years 1949 to 1951. It is appropriate that these three years should be distinguished from preceding years, for a new series of statistics of industrial accidents was commenced in 1949, with further revision in 1951. These changes actually dated in each case from 1 April of the year mentioned, but it has been found possible to assimilate the pattern of the first three months both of 1949 and also of 1951 to that of the remainder of the year in each case, so as to continue the presentation of these statistics on a calendar-year basis. A discontinuity still remains, however, as regards new fields of accidents which were brought within the scope of the statistics from 1 April 1949, on which see further remarks later. Statistics relating to the year 1952 are given in the Latest Statistical Information section of this Year-Book.

The main reason for the lack of comparability of the statistics presented in this Section with those for earlier and later periods, was the existence of a State monopoly of workers' compensation insurance (see pages 953–958), which was introduced on 1 April 1949 and terminated on 31 March 1951, the relevant legislation being contained in the 1947 and 1950 amendments respectively to the Workers' Compensation Act. Information regarding accidents which occurred outside the operation of the monopoly, by arrangement with the Public Service during the operation of the monopoly, was derived from claims for compensation, and not as previously from notifications made to the Department of Labour and Employment of accidents taking place, each notification being supplemented by subsequent inquiry as to the final result of the accident.

It is stressed that the figures of accidents in the sector "Private industry (excluding mining) and local authorities" are, for the reason given, not comparable with any figures prior to 1949. The variation is twofold; not only does the transition from the basis of notifications to that of claims seriously impair comparability, but also the field of coverage has been considerably widened. Both these points were illustrated in the table on pages 898–9 of the 1953 Year-Book.

From 1 April 1949 the statistics embrace accidents in the following industries not previously covered: farming; gardening; fishing and whaling; commerce (including shops, offices, and warehouses); land transport other than railways; sea and air transport (including waterfront work); and domestic, health, professional, educational, and recreational services. As regards coverage, the year 1950 was fully comparable with the last nine months of 1949, but in all the following tables these nine months are merged with the first three months for which statistics of accidents in private (i.e., other than State) industry were still derived only through the restricted channel of notifications under the various statutes. With the exception then of Government Departments, the figures shown under any heading for 1949 and 1950 respectively are to this extent not comparable with each other.

In 1951, despite the closing of the monopoly, the extended coverage was maintained, and even improved, through the assistance of the newly created Workers' Compensation Board, so that a high degree of comparability—if not in the analysis, at any rate in total—exists between the statistics for 1950 and those for subsequent years. (The effect of an amended definition of the term "accident" is discussed later.) The improvements in the coverage relate principally to marine and waterfront work (for which the statistics for 1949 and 1950 are not claimed to be complete), some local authorities, and a few businesses which by special arrangement carry their own compensation insurance—in general there is a statutory liability to insure.

The chief fields still remaining uncovered are Government Departments other than the Government Printing and Stationery Department and those Departments enumerated in the following tables. In only a few cases of minor importance are employees of the State covered by compensation insurance. The method of deriving accident information from claims is being retained, and insurers are co-operating with the Census and Statistics Department in this regard.

In the tables which follow, some changes in the classifications, particularly of industries, as compared with those shown in previous issues of the Year-Book, will be observed. During the period of collaboration between the State Fire and Accident Insurance Office and the Census and Statistics Department, classifications were brought into use which served at the one time the purposes of both interested parties, but when the termination of the monopoly permitted a reversion to classifications which had been previously in use, the opportunity was taken of revising the codes throughout, and particularly of introducing the standard industrial classification which is being uniformly adopted in all New Zealand industrial statistics.

It is recognized that the calculation of accident frequency and severity rates for non-Government industrial activities has had after 1948 to be suspended at least temporarily. The reason is that for the new industries now surveyed no reliable information as to man-hours worked is yet available, in which case there is no basis for the calculations. The lacuna in the private industry sector are serious; consequently frequency and severity rates are for the present confined to Government Departments. The possibility of again computing these rates for private industry, perhaps on a modified basis, is still nevertheless under consideration.

On the other hand, a valuable improvement has been found possible in mining statistics, which are now, as to extent of detail, equally complete with those of other industries generally. Particulars of time lost and compensation paid were obtained for the first time in 1949 in respect of privately owned mines, and in the year following State mines were also brought into line. Information as to man-hours worked, however, is not yet available.

Since 1 December 1951 the provision that no compensation is payable for absence from work through accidents of less than three days' duration has been repealed. For the purposes of these statistics the convention has always been adopted that an industrial "accident" means an accident which qualifies for compensation; and accordingly accidents occurring from the date mentioned are included where the disability lasted beyond the calendar day on which the accident occurred.

Attention may also be called to one important limitation imposed by the derivation of accident information from compensation claims. The resultant statistics will necessarily exclude accidents to working proprietors who are not insurable under the workers' compensation scheme.

Departure from the general principle that the tables shown later relate only to 1949, 1950, and 1951 is made in a few special cases where ratios rather than absolute figures are the primary consideration (e.g., average amount of compensation paid per accident, and percentage age distribution of injured persons). Even here comparisons should be made with caution. For instance, the inclusion of farming in the field covered from 1949 onward increased the proportion of workers under twenty-one years of age to all workers. In interpreting any changes in the percentage of all accidents represented by accidents to persons under twenty-one years, this fact should be borne in mind.

In comparing the number of accidents in 1951 with those in other years, especially in tables by industrial groupings, it is necessary to bear in mind the serious industrial dispute in certain industries during that year, which lasted some five months and involved a loss of 1,156,000 working days to industry. Workers were thus not exposed to risk of accident over the complete year in some industries.

NUMBER OF ACCIDENTS AND AMOUNT OF COMPENSATION PAID.—The distribution of industrial accidents in 1950 and 1951, according to the source of information, is indicated in the following table. It will be noted that for 1951 the total number of accidents and the number where particulars of compensation are available are the same. A change in departmental procedure accounts for this, in that prior to 1949 all accidents were

included in the statistics for the year in which the accident occurred. The change in method has been made to obviate delays on account of claims in respect of some of the more serious accidents not being finalized until the action on the claim has been completed. The speeding up of the publication of the statistics necessitates the holding over of some of the more serious accident claims for inclusion with later periods.

In this and in the subsequent tables the compensation figures include damages, if any, awarded by a judgment of the Court, medical expenses, and, in cases of fatal accidents, funeral expenses also. The average amount of compensation per accident under any heading is greatly influenced by the proportionate number of accidents included which terminate fatally or result in permanent disability.

Class	Total Accidents		Frequency Rate (Accidents Per 100,000 Man-hours Worked)		Accidents Where Particulars of Compensation Available		Total Compensation or Damages Paid in Such Cases		Compensation Per Case Where Known	
	1950	1951	1950	1951	1950	1951	1950	1951	1950	1951
	Private industry (excluding mining) and local authorities	26,629	27,404	-	-	26,629	27,404	£955,255	£1,227,742	£35.9
Ministry of Works	571	825	3,589	5,225	565	825	27,571	30,483	48.8	36.9
State Hydro-electric Department	200	200	4,711	4,220	200	200	5,488	8,244	27.4	41.2
New Zealand Forest Service	264	395	6,737	9,314	264	395	9,402	7,356	35.6	18.6
Railways	2,257	2,118	4,601	4,502	2,254	2,118	77,187	80,421	34.2	38.0
Post and Telegraph	456	456	1,373	1,355	456	456	9,425	14,096	20.7	30.9
Mining	2,552	2,091	-	-	2,395	2,091	71,694	126,309	29.9	60.4
All classes	32,929	33,489	3,525*	3,776	32,763	33,489	1,156,022	1,494,651	35.3	44.6

* No information available.

† Named Government Departments only.

In the table following, industrial accidents during the year 1951 are classified into certain important industrial groups. The New Zealand Standard Industrial Classification of all Economic Activities which is based on the codes and concepts of the Standard Industrial Classification of the United Nations has been adopted, so that the table is not strictly comparable with those published for previous years. The time lost through accidents is shown in man-days, the days being calendar, not working, days.

Industrial Group	Total Accidents	Time Lost (Calendar Days)		Total Compensation (Including Damages)	
		Total	Average	Total	Average
Agriculture, forestry, hunting, and fishing—				£	£
Agriculture and livestock production	2,783	388,869	140	153,853	55.3
Forestry and logging	1,306	125,326	96	57,416	44.0
Hunting, trapping, and game propagation	67	22,357	334	5,872	87.6
Fishing	45	2,660	59	1,282	28.5
Mining and quarrying—					
Coal mining	1,514	137,849	91	90,274	59.6
Metal mining	368	39,035	106	15,173	41.2
Crude petroleum and natural gas	9	270	30	275	30.6
Stone quarrying, clay and sand pits	196	58,913	301	20,457	104.4
Non-metallic mining and quarrying	4	119	30	130	32.5
Manufacturing—					
Food	4,645	186,388	40	134,940	29.1
Beverages	256	21,158	83	10,375	40.5
Tobacco	61	3,823	63	2,392	39.2
Textiles	341	30,995	91	14,163	41.5
Footwear, other wearing apparel, and made-up textile goods	379	31,544	83	13,548	35.7
Wood and cork (excluding furniture)	1,848	147,707	80	71,449	38.7
Furniture and fixtures	274	25,622	94	12,533	45.7
Paper and paper products	175	7,827	45	5,900	33.7
Printing, publishing, and allied industries	205	36,976	180	16,435	80.2
Leather and leather products (except footwear)	162	15,066	93	7,096	43.3
Rubber products	191	32,290	169	14,913	78.1
Chemicals and chemical products	495	39,352	79	20,731	41.9
Products of petroleum and coal	45	1,962	44	1,369	30.9
Products of non-metallic minerals	763	69,020	90	30,451	39.9
Basic metal industries	141	6,159	44	4,075	28.9
Metal products (except machinery and transport equipment)	535	63,377	118	28,286	52.9
Machinery (except electrical machinery)	1,218	118,344	97	52,467	43.1
Electrical machinery, apparatus, appliances, and supplies	209	18,931	91	8,398	40.2
Transport equipment	1,322	98,843	75	47,039	35.6
Miscellaneous industries	95	9,503	100	3,740	39.4
Construction	4,535	444,916	98	214,481	47.3
Electricity, gas, water, and sanitary services—					
Electricity, gas, and steam	593	65,962	111	30,906	52.1
Water and sanitary services	115	8,380	73	4,694	40.8
Commerce—					
Wholesale and retail trade	2,311	198,722	86	89,393	38.7
Banks and other financial institutions	4	101	25	109	27.3
Insurance	16	12,115	757	2,535	158.4
Real estate	14	4,044	289	960	68.6
Transport, storage, and communication—					
Transport	4,352	486,934	112	200,425	46.1
Storage and warehousing	64	1,385	22	1,411	22.0
Communication	458	23,608	52	14,155	30.9
Services—					
Government	45	10,624	236	3,185	70.8
Community and business	576	104,672	182	45,336	78.7
Recreation	112	30,678	274	9,156	81.8
Personal	614	64,490	105	31,132	50.7
Ill defined and not specified	28	5,252	188	1,741	62.2
Totals	33,489	3,202,168	96	1,494,651	44.6

The following table shows, for the last five years available, the average compensation paid, in conjunction with the extent of disability.

Year	Fatality		Permanent Disability		Temporary Disability		Total	
	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation
* Where amount of compensation known.								

Year	Fatality		Permanent Disability		Temporary Disability		Total	
	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation	Number of Cases*	Average Amount of Compensation
		£		£		£		£
1947	35	1,433.4	224	473.6	11,653	13.4	11,912	26.2
1948	34	1,447.7	234	553.8	12,425	161	12,693	29.8
1949	59	1,126.4	498	490.7	27,733	18.5	28,290	29.2
1950	76	1,397.7	687	523.6	32,000	21.6	32,763	35.3
1951	71	1,728.3	827	669.1	32,591	25.2	33,489	44.6

* Where amount of compensation known.

The maximum amount, irrespective of medical and funeral expenses, which may be paid in respect of fatalities under the Workers' Compensation Act was from 1 April 1948 raised from £1,000 to £1,500, with a new provision that no deduction was to be made from this amount on account of any weekly payments due to incapacity prior to the occurrence of death unless these payments exceeded £250 in total. From 1 September 1949 this maximum amount was raised to £1,750, and by the Workers' Compensation Amendment Act (No. 2) 1951 was increased from 1 December 1951 to £2,000, with a maximum of £300 from weekly payments before reduction of the principal amount was to become effective. From September 1953 the maximum amount was raised to £2,150 by the Workers' Compensation Amendment Act 1953; the maximum from weekly payments remaining unchanged. To give effect to the general order of the Court of Arbitration further increases were gazetted under the Workers' Compensation Order 1953, the maximum amount now being £2,370, with a maximum of £330 from weekly payments before reduction of the principal amount becomes effective (see pages 953-958) of this issue. It should also be remembered that the dependants of a worker accidentally killed may take proceedings at common law (where negligence must be proved), in which case the amount of compensation depends on the verdict of the jury, and it is not limited to the statutory maximum under the Act. Similar action is also taken by the worker himself in some cases of permanent disability, or serious injury where negligence is considered to have caused the accident.

CAUSE OF ACCIDENT AND EXTENT OF INJURY SUSTAINED.—In regard to the extent and degree of the disability sustained, it is usual to distinguish fatal accidents, accidents causing temporary disability, accidents causing permanent partial disability, and accidents causing permanent total disability. Very few cases of permanent total disability occur in New Zealand, practically the whole of the cases shown under "permanent disability" resulting in partial disability only.

In the actual compilation of the statistics difficulty occasionally arises as to whether a particular injury should be regarded as temporary or permanent; and in cases of doubt the conservative practice has been adopted of classifying the injury in the temporary-disability class. The following table, showing cause of accident in conjunction with degree of disability, relates to the three-year period 1949-51 combined.

Cause	Fatality	Permanent Disability	Temporary Disability	Total	Percentage of Total Accidents
Machinery	13	871	10,988	11,872	12.3
Farming equipment	9	45	782	836	0.9
Vehicles	91	152	6,211	6,454	6.7
Explosions, fires, and hot substances	9	25	2,460	2,494	2.6
Poisonous and corrosive substances	2	4	909	915	0.9
Electricity	13	9	224	246	0.3
Falls of persons—					
Slipping and stumbling on the level	2	67	6,798	6,867	7.1
Other	15	147	6,766	6,928	7.2
Stepping on or striking against fixed objects—					
Stepping on			728	728	0.8
Striking against	2	41	4,929	4,972	5.2
Falling objects, not being handled by the person injured	34	165	6,708	6,907	7.2
Handling of objects—					
Heavy	7	210	19,993	20,210	20.9
Sharp		35	6,731	6,766	7.0
Hand trucks, etc.		8	1,124	1,132	1.2
Continual handling		6	1,736	1,742	1.8
Hand tools	2	191	12,056	12,249	12.7
Animals and insects	4	40	1,532	1,576	1.6
Miscellaneous—					
Foreign body in eye		16	897	913	0.9
Doors, windows, covers, gates (excluding elevators)		15	902	917	0.9
Other	15	29	1,725	1,769	1.8
Totals	218	2,076	94,199	96,493	100.0

* Including permanent total disability cases as follows: 1949, 3; 1950, 1; 1951, 7; total, 11.

Similar information according to the broad industrial groupings by types of employer is now given for the same period as that covered by the preceding table.

Class	Fatality	Permanent Disability	Temporary Disability	Total	Percentage of Total Accidents
Private industry (excluding mining) and local authorities	140	1,812	74,864	76,816	79.6
Ministry of Works	10	40	1,937	1,987	2.0
State Hydro-electric Department	7	7	519	533	0.6
New Zealand Forest Service	2	8	1,025	1,035	1.1
Railways	37	69	6,934	7,040	7.3
Post and Telegraph	1	12	1,408	1,421	1.5
Mining	21	128	7,512	7,661	7.9
Totals	218	2,076	94,199	96,493	100.0

* Including permanent total disability cases as follows: 1949, 3; 1950, 1; 1951, 7; total, 11.

Further information on degree of disability by industrial groups will be found in the table on page 1007.

AGE OF WORKER.—The following table supplies a percentage distribution of accidents recorded during each of the last five years according to age groups of the persons injured.

Age, in Years	1947		1948		1949		1950		1951	
	No. of Cases	Per Cent of Total	No. of Cases	Per Cent of Total	No. of Cases	Per Cent of Total	No. of Cases	Per Cent of Total	No. of Cases	Per Cent of Total
Under 16	89	0.6	90	0.6	222	0.7	234	0.7	207	0.6
16 to 20	1,780	12.0	1,979	12.6	3,799	12.6	4,040	12.3	3,910	11.7
21 to 24	2,085	14.1	2,346	14.9	4,411	14.7	4,650	14.1	4,454	13.3
25 to 34	3,929	26.6	4,022	25.6	7,481	24.9	8,292	25.2	8,343	24.9
35 to 44	3,010	20.4	3,242	20.6	6,126	20.4	6,737	20.5	6,711	20.0
45 to 54	1,998	13.5	2,219	14.1	4,118	13.7	4,722	14.3	4,814	14.4
55 and over	1,233	8.3	1,256	8.0	2,491	8.3	2,954	9.0	2,961	8.9
Not stated	659	4.5	567	3.6	1,427	4.7	1,300	3.9	2,089	6.2
Totals	14,783	100.0	15,721	100.0	30,075	100.0	32,929	100.0	33,489	100.0

NATURE OF INJURY.—A classification of accidents according to the nature of the injuries sustained gives the following results for the years 1949-51.

Nature of Injury	1949	1950	1951
------------------	------	------	------

Nature of Injury	1949	1950	1951
Bruises, contusions, and abrasions	8,401	8,346	8,756
Burns	1,180	1,252	1,206
Concussions	203	265	209
Lacerations, punctures, and open wounds	9,102	10,754	10,044
Ruptures	280	303	353
Amputations	169	207	358
Dislocations	194	271	231
Fractures	2,234	2,683	2,871
Sprains and strains	7,118	7,742	7,916
Occupational dermatitis	319	411	412
Other and ill-defined	875	695	1,127
Totals	30,075	32,929	33,489
Cases where septic poisoning occurred—			
Number	3,716	4,437	3,879
Percentage of all accidents	12.4	13.5	11.6

A feature of special interest brought out by this table is the relatively high proportion of accidents in which septic poisoning followed.

PART OF BODY AFFECTED.—Informative figures showing the number of cases in which the different parts of the body were affected by industrial accidents which occurred during the years 1949-51 are given in the following table.

Part of Body Affected	1949	1950	1951	Totals 1949-51
Head	527	560	587	1,674
Eyes	1,420	1,249	1,185	3,854
Rest of face	401	411	466	1,278
Neck	5	7	7	19
Back and chest	3,925	4,627	4,702	13,254
Abdomen and contents	381	324	425	1,130
External genitals	3	4	8	15
Upper limbs—				
Collarbone and shoulder	935	1,050	1,029	3,014
Arm	1,945	2,273	2,123	6,341
Hand and wrist	11,266	12,261	11,923	35,450
Lower limbs—				
Hip, thigh, and leg	3,783	4,054	4,385	12,222
Ankle and foot	3,461	3,801	4,099	11,361
Multiple or undefined	2,023	2,308	2,550	6,881
Totals	30,075	32,929	33,489	96,493

Accidents to the fingers, wrists, and hands formed a large proportion of the total, no fewer than 11,923 (35.6 per cent) out of a total of 33,489 coming within that category in 1951. Next in order came cases in which an injury to the back and chest was sustained, with 14.0 per cent; to the hip, thigh, and leg, with 13.7 per cent; to the ankle or foot, with 12.2 per cent; to the arm, with 6.3 per cent; and to the eyes, with 3.5 per cent.

A tabulation made for 1951, correlating nature of injury with part of body affected, showed that the most common type of accident was to the fingers and thumbs, resulting in cuts or lacerations: 4,928 of the 33,489 accidents tabulated came under this category. Of the 358 cases of amputations, 322 resulted in loss of some part of the fingers or thumbs. Contusions and abrasions of the fingers and thumbs numbered 1,927, of the hands 982, of the thighs and legs 1,864, and of the feet 1,276; cuts and lacerations of the hands amounted to 1,703. Of the 7,917 sprains, 2,967 resulted in injury to the back, while sprained thighs, legs, and feet accounted for 2,380.

DURATION OF INCAPACITY.—A further measure of the extent of disability is furnished, in cases of temporary disability, by data as to the duration of absence from work as the result of the accident. A summary of this aspect, together with the number of cases of permanent partial disability and fatality, is given below for the years 1949 to 1951, together with the totals for the three-year period 1949-51.

Duration	1949		1950		1951		Totals, 1949-51	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
1 week or under	6,824	22.7	8,014	24.3	7,745	23.1	22,583	23.4
Over 1 week to 2 weeks	8,736	29.0	10,069	30.6	10,274	30.7	29,079	30.1
Over 2 weeks to 4 weeks	6,754	22.5	7,608	23.1	7,900	23.6	22,262	23.1
Over 4 weeks to 6 weeks	2,219	7.4	2,623	8.0	2,766	8.3	7,608	7.9
Over 6 weeks to 13 weeks	2,307	7.7	2,622	8.0	2,802	8.3	7,731	8.0
Over 13 weeks to 6 months	671	2.2	758	2.3	807	2.4	2,236	2.3
Over 6 months	206	0.7	309	0.9	299	0.9	814	0.9
Fatality	67	0.2	80	0.3	70	0.2	217	0.2
Permanent disability	546	1.8	703	2.1	826	2.5	2,075	2.1
Total specified cases of temporary disability	27,717	92.2	32,003	97.2	32,593	97.3	92,313	95.7
Cases where employee did not return or duration not stated	1,745	5.8	143	0.4			1,888	2.0
Totals	30,075	100.0	32,929	100.0	33,489	100.0	96,493	100.0

In many cases the injured employee did not cease work immediately, a considerable period intervening in some instances. The following table shows, for such cases occurring during the year 1951, the length of time elapsing before the employee left work, by broad industrial (employer) groups.

—	Private Industry (Excluding Mining) and Local Authorities	Ministry of Works	State Hydroelectric Department	New Zealand Forest Service	Railways Department	Post and Telegraph Department	Mining	Total
<i>Period elapsing</i>								
1 week or less		6,391	30		17		153	500 7,696
Over 1 week and up to 2 weeks		668	11	5	8	44	7	45 788
Over 2 weeks		609	4	1	10	51	10	39 724
Totals		7,668	45	23	40	588	170	674 9,208
Percentage of all accidents (i.e., percentage of delayed action cases to total accidents in each class)		28.0	5.5	11.5	10.0	27.8	37.3	32.2 21.5

The preceding table indicates that many employees suffering from minor injuries pay little attention to such injury, especially in the case of slight cuts, strains, or abrasions. This neglect often causes more severe pain (or with cuts and abrasions, septic poisoning), and the absence then enforced is usually longer than if the injury had received immediate attention. Lost time prior to 1 December 1951 usually entailed a reduction in wages, especially if the injury resulted in under three days absence, in which case no compensation was payable. Further, in the case of apprentices, lost time has to be made up at the termination of the period of apprenticeship, and these two considerations have probably militated against the worker ceasing work immediately on account of a minor injury. In many cases efforts are being made on the part of employers to reduce aggravation of injuries through neglect by the establishment of first-aid posts.

One of the main responsibilities of the Worker's Compensation Board is the reduction of the accident rate in industry, and it has organized a National Safety Association comprised of representatives of industry and interested Government Departments.

Further, the Board in conjunction with the Health Department has opened an Industrial Health Centre in Auckland, and is prepared to assist in the establishment of further centres in areas of concentrated industrial activity.

ACCIDENT SEVERITIES.—Severity rates are calculated according to the formula: man-hours lost through accidents per 100,000 man-hours worked. Man-hours lost are obtained for this purpose from the figures of calendar days lost, a summary of which has been given on page 999. The formula employed equates forty man-hours to seven calendar days. In the case of fatal accidents and accidents resulting in permanent disability the assessment for

time lost may or may not take into account variations in the expectation of working life destroyed by the accident, in accordance with the age of the worker killed or permanently injured. In view of the fact that the age of the individual is not particularly relevant to the character of the hazard from which the injury has occurred, for the purpose of calculating the accident severity rates shown later, a constant loss of 9,545 calendar days is counted for each fatality irrespective of the age of the person at the time of death. The effect of taking into account the actual age is shown in the Statistical Report on Industrial Accidents. In respect of permanent partial disablement the time lost is assessed on the basis of a proportionate part of the time lost in connection with injuries resulting in death or permanent total disablement. For example, the total loss of hearing is regarded as a 50-per-cent disability—that is, the time lost on account of impaired working capacity in this case is assessed as 50 per cent of 9,545 calendar days—i.e., 4,773 calendar days. The respective percentages applying to the various categories of permanent disablement which are used in such assessments are those set out in the Second Schedule to the Workers' Compensation Act 1922 and amendments thereto.

A simpler concept is that of "average time charge," which is measured by the total time lost (including assessments for fatalities and permanently disabling injuries) divided by the number of accidents. This rate is shown in the following table as "calendar days (i.e., man-days) lost per accident." Reports on mining accidents did not prior to 1950 provide the necessary data for inclusion in that portion of the table.

—	1948	1949	1950	1951
Total cases resulting in—				
Fatality	46	41	67	80
Permanent disability	292	299	546	703
Temporary disability	14,445	15,381	29,462	32,146
Totals	14,783	15,721	30,075	32,929
Calendar days lost per accident (i.e., time charge)	89*	86*	72*	81
Man-hours lost per 100,000 man-hours worked (i.e., severity rate)†	1,473	1,482	†	†

* Excluding mining accidents.
† Excluding scaffolding and mining accidents.
‡ Data on which to compute not available.

As noted earlier in this Section, severity rates have since 1948 been calculated for certain Government Departments only; accordingly no figures appear for 1949, 1950, or 1951 in the last line of the foregoing table. A general indication of the extent of the toll on industry caused by industrial accidents is, however, afforded by the severity rates shown for the years 1947 and 1948. In the latest of these years one hour was lost as a result of such accidents out of every sixty-seven hours worked in the industries covered. Accident-severity rates in respect of the Government Departments are now shown for the years 1950 and 1951; the corresponding accident-frequency rates have already been set out in the table on page 999.

—	Ministry of Works		State Hydroelectric Department		New Zealand Forest Service		Railways Department		Post and Telegraph Department		Totals	
	1950	1951	1950	1951	1950	1951	1950	1951	1950	1951	1950	1951
Total cases resulting in—												
Fatality	3	4	1	1	1	1	8	14	1	1	14	20
Permanent disability	29	8	1	1	4	4	2	24	12	2	6	51
Temporary disability	548	813	198	195	259	392	2,225	2,092	453	450	3,683	3,942
Totals	571	825	200	200	264	395	2,257	2,118	456	456	3,748	3,994
Calendar days lost per accident (i.e., time charge)	152	99	84	83	88	23	77	107	46	52	86	90
Man-hours lost per 100,000 man-hours worked (i.e., severity rate)	3,125	2,942	2,261	1,987	3,405	1,237	2,020	2,762	359	400	1,727	1,934

Comparison of the severity rates as between different industrial groups is affected by the varying proportions of serious accidents and fatalities in different industries in different years. In the following cumulative table for the five years 1947-51—still including only the same Government Departments—the effect of this factor is minimized by the relatively large number of accidents classified.

Industrial Group	Number of Accidents Resulting In—				Number of Accidents Per 100,000 Man-hours Worked (Frequency Rate)	Calendar Days Lost Per Accident (Time Charge)	Hours Lost Per 100,000 Man-hours Worked (Severity Rate)
	Fatality	Permanent Disability	Temporary Disability	Total			
Ministry of Works and State Hydroelectric Department	21	85	4,156	4,262	4,277	118	2,890
New Zealand Forest Service	1	17	1,788	1,806	9,212	42	7,228
Railways Department	55	94	12,299	12,448	5,106	85	2,468
Post and Telegraph Department	4	23	2,265	2,292	1,548	55	488
Totals	81	219	20,508	20,808	4,071	85	1,968

In the following table, which covers the year 1951, accidents are classified by industrial groups, the time charge for each group and an analysis by degree of disability being shown.

Industrial Group	Number of Accidents Resulting In—					Calendar Days Lost Per Accident (Time Charge)
	Fatality	Permanent Disability	Total Disability	Permanent Partial Disability	Temporary Disability	
Agriculture, forestry, hunting, and fishing—						
Agriculture and livestock production	9	1	103		2,670	2,783
Forestry and logging	1		25		1,188	1,214
Other	2		3		107	112
Mining and quarrying	10	1	38		2,042	2,091
Manufacturing—						
Food, drink, and tobacco	1	1	64		4,896	4,963
Clothing, footwear, textiles			25		695	720
Wood and wood products	2		80		2,132	2,214
Paper, printing, etc.			16		364	380
Leather			7		155	162
Rubber		1	6		184	191
Chemicals			10		485	495
Petroleum and coal			1		44	45
Non-metallic mineral products	2		17		744	763
Engineering and metal working—						
(a) Private industry	4		91		2,909	3,004
(b) Railways Department			5		416	421
Miscellaneous industries			4		91	95
Construction	7		135		4,354	4,496
Electricity, gas, water, and sanitary services—						
Electricity, gas, and steam	3		12		578	593
Water and sanitary services			2		113	115
Commerce—						
Wholesale and retail trade	3		56		2,252	2,311
Other	1		3		30	34
Transport, storage, and communication—						
Railways Department	14		2		1,663	1,684
Post and Telegraph Department			6		451	457
Private industry and local authorities	8	1	61		2,663	2,733
Services	4		43		1,339	1,386
Ill defined or not specified			2		26	28
Totals	71	7	820		32,591	33,489

ACCIDENT PRONENESS.—In two consecutive years investigation was made as to the total number of individuals suffering accidents in mines as distinct from the total number of mining accidents. It was found that approximately 25 per cent of those injured were involved in two or more accidents.

TIME OF OCCURRENCE.—The following tabulation of industrial accidents, according to the hour of occurrence, shows the effects of fatigue during the working day.

Time of Occurrence to Nearest Hour	Year			Causes, 1949-51					
	1949	1950	1951	Machinery	Falls of Persons	Handling of Objects	Hand Tools	Other Totals, 1949-51	
8 a.m.	1,026	1,105	1,157	417	585	904	359	1,023	3,288
9 a.m.	2,664	2,828	2,877	1,138	1,183	2,692	1,235	2,121	8,369
10 a.m.	3,918	4,346	4,231	1,532	1,681	4,017	1,762	3,503	12,495
11 a.m.	4,289	4,620	4,494	1,703	1,731	4,303	1,843	3,823	13,403
12 noon	1,987	2,188	2,213	871	975	1,697	1,020	1,825	6,388
1 p.m.	1,169	1,215	1,117	532	525	830	486	1,128	3,501
2 p.m.	3,176	3,500	3,419	1,376	1,291	3,044	1,457	2,927	10,095
3 p.m.	3,447	3,829	3,905	1,420	1,690	3,440	1,466	3,165	11,181
4 p.m.	3,155	3,410	3,435	1,419	1,653	2,932	1,272	2,724	10,000
5 p.m.	1,418	1,577	1,650	556	832	1,174	556	1,527	4,645
Other hours	2,075	2,384	2,579	788	1,381	1,697	446	2,726	7,038
Not stated	771	905	1,716	320	261	1,340	316	1,155	3,392
Not applicable	980	1,022	696	49	7	1,780	31	831	2,698
Totals	30,075	32,929	33,489	12,121	13,795	29,850	12,249	28,478	96,493

This table indicates that accidents are definitely most numerous during the middle and later part of the morning; there is another peak in mid-afternoon, but this does not reach the same high point.

A more definite indication is given by considering the length of time the employee had worked on the day when the accident occurred.

Number of Hours Already Worked	1949	1950	1951	Totals, 1949-51	Percentage of All Accidents, 1949-51
Under 1	1,724	1,794	1,784	5,302	5.5
1 and under 2	3,174	3,453	3,430	10,057	10.4
2 and under 3	3,698	4,103	4,147	11,948	12.4
3 and under 4	4,046	4,472	4,342	12,860	13.3
4 and under 5	2,220	2,472	2,455	7,147	7.4
5 and under 6	2,785	3,118	2,971	8,874	9.2
6 and under 7	3,298	3,751	3,709	10,758	11.2
7 and under 8	3,150	3,135	3,287	9,572	9.9
8 or over	1,838	2,201	2,434	6,573	6.8
Not stated	3,180	3,305	4,235	10,720	11.1
Not applicable	962	1,025	695	2,682	2.8
Totals	30,075	32,929	33,489	96,493	100.0

The foregoing tabulation shows that the greatest number of accidents occurred during the third and fourth hours worked in the day. Overtime accidents (eight hours or more already worked) represented 7 per cent of all accidents in 1950 and 7.3 per cent of all accidents in 1951.

Occurrences of accidents during 1948 were classified according to the day of the week with the following results.

Industrial Group	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Not Stated	Total
	<i>Percentage of All Accidents</i>								
Factories	1.2	18.8	17.7	17.6	16.2	16.2	3.8	8.5	100.0
Ministry of Works and State Hydro-electric Department	0.8	2.1	20.5	19.5	16.5	16.5	2.8	2.3	100.0
New Zealand Forest Service	1.9	17.4	16.0	14.8	18.8	14.8	6.4	9.9	100.0
Bush working	1.9	19.5	17.1	20.1	17.1	14.6	6.0	3.7	100.0
Scaffolding	2.5	17.1	19.6	14.6	15.8	20.2	5.1	5.1	100.0
Railways	2.3	20.9	19.9	17.0	16.3	15.3	7.5	0.8	100.0
Post and Telegraph	0.7	25.0	19.3	12.9	15.2	20.0	3.0	3.9	100.0
Mining	0.6	23.4	19.7	18.6	16.3	15.3	3.1	3.0	100.0
Totals	1.3	20.3	18.6	17.6	16.3	16.0	4.4	5.5	100.0

The general tendency to a Monday peak indicates a certain lack of co-ordination between worker and work on that day, this being due no doubt to the week-end break.

INSPECTION OF MACHINERY.—The Boilers, Lifts, and Cranes Act 1950 and the Machinery Act 1950, which replaced the former Inspection of Machinery Act 1928 and its amendments, are designed to promote the safety of life and limb in the operation of steam boilers, digesters, other steam-pressure vessels, and air-receivers; hydraulic, electric, and other lifts; all types of power-driven cranes and power-driven machinery on land; and machinery used on vessels other than for arm purposes. Nothing in the Acts applies to any machinery driven by manual or animal power, or to any machinery the motive power of which does not exceed one horsepower. Machinery which is used exclusively for farming purposes and does not exceed six horsepower is also exempt from annual inspection.

Boilers, pressure vessels, air receivers, lifts, and cranes are required to be of approved design and workmanship, and the moving parts of machinery must be adequately guarded.

All boilers and machinery are inspected and certificated once per year and lifts twice per year. It is illegal to work a boiler or other pressure vessel or any machinery, including a crane or lift, which does not carry a current certificate of inspection issued by either the Marine Department or the Department of Labour and Employment.

Particulars of inspections of boilers and machinery by the Marine Department during the years ended 31 March 1952 arid 1953 were as follows:—

Boiler inspections—	1951-52	1952-53
Fired boilers	4,751	4,611
Pressure vessels	11,816	12,119
Total boilers	16,567	16,730
Machinery inspections—		
Lifts	3,486	3,548
Cranes	871	938
Winding engines	18	18
Total machinery	4,375	4,504
Grand totals	20,942	21,234

The Acts provide that where loss of life or serious bodily injury to any person occurs by reason of the explosion of a boiler, or as a result of an accident caused by machinery, the explosion or accident must be reported by the owner, and the cause investigated by an Engineer-Surveyor.

Revenue and expenditure in connection with inspection of machinery for the last five years available have been as follows.

—	1948-49	1949-50	1950-51	1951-52	1952-53
Revenue—	£	£	£	£	£
Inspection fees, etc.	30,413	31,838	29,633	18,460	18,951
Examination fees, etc.	639	543	621	573	728

—	1948-49	1949-50	1950-51	1951-52	1952-53
Totals	31,052	32,381	30,254	19,033	19,679
Expenditure	36,256	36,713	38,598	44,530	44,865

The Boilers, Lifts, and Cranes Act 1950 also provides for the issue of certificates to those who pass the prescribed examinations for land engineers and engine drivers in charge of boilers and machinery, for winding-engine drivers for mining purposes, for drivers employed on locomotives working on railway lines not under the control of the Government Railways Department, and for the drivers of traction engines on roads. Certificates are also issued to electric-tram drivers, as provided by the Tramways Amendment Act 1910, and cable-tram drivers' certificates in pursuance of section 75 of the Statutes Amendment Act 1946. The issue of these certificates is controlled by a Board of Examiners set up under the Act, the Chairman being the Chief Engineer-Surveyor.

The total number of candidates examined during the year 1953 was 584. Of these candidates, 491 were successful in their examinations.

Inspection work under the Machinery Act 1950 by the Department of Labour and Employment is the responsibility of Inspectors of Factories, Inspectors of Scaffolding, and Inspectors appointed pursuant to the Bush Works Act 1945. The intention is that Inspectors of Machinery act as technical advisers to these several inspectors. As from 1 January 1951, the date on which the Act commenced to operate, advice on technical issues was obtained from Engineer-Surveyors attached to the Marine Department, these officers having been Inspectors of Machinery under the 1928 Act. Three Inspectors of Machinery have now been appointed to the staff of the Department of Labour and Employment.

There were 1,572 accidents involving machinery during the calendar year 1952.

Chapter 43. SECTION 43—ISLAND TERRITORIES

Table of Contents

ADMINISTRATION.—New Zealand's first administrative responsibility in respect of areas in the South Pacific was accepted in 1901 when the Cook Islands were brought within the boundaries of New Zealand. In 1902 a Minister in charge of the Cook Islands was appointed and the Cook Islands Department was formed. In 1920 New Zealand was granted a mandate over the Territory of Western Samoa, and the Samoa Act 1921 provided for the appointment of a Minister and a Department of External Affairs. The staffs of the Cook Islands and the External Affairs Departments were combined, but during some periods there were separate Ministers in charge of each of the main island groups.

Under the External Affairs Act 1943 the Department of External Affairs became responsible for the direction of New Zealand's foreign affairs, including its offices in other Commonwealth countries, while the Department of Island Territories, created under the Island Territories Act 1943, assumed responsibility for the administration of all island territories.

On 1 January 1949 the Tokelau Group, which since 1925 had been administered by New Zealand on behalf of the United Kingdom Government; became part of New Zealand and was placed under the general direction of the Department of Island Territories, although actually administered by the High Commissioner of Western Samoa.

The Chatham Islands, which comprise one of the 129 countries of New Zealand, have had their development seriously retarded by reason of their isolation and consequent lack of direct contact with the mainland. In order to assist in overcoming the disabilities suffered by the people of the Chatham Islands, and to promote the general welfare and development of the islands, the Government, in December 1949, placed their general administration under the Department of Island Territories. A Resident Commissioner is responsible for co-ordination of all Government activities in the islands and also acts as Resident Magistrate.

Besides administering the various island groups, the Department controls the operations of the N.Z.G.M.V. "Maui Pomare" and the purchase and shipping of equipment, stores, etc., to island administrations. In addition, the Department takes an interest in the welfare of islanders in New Zealand, and is associated with the South Pacific Commission and the South Pacific Health Service. The former is an advisory and consultative body set up by the Governments of Australia, France, the Netherlands, New Zealand, the United Kingdom, and the United States of America, all of which are responsible for the administration of non-self-governing territories in the Pacific. The functions of the Commission are to recommend to the member Governments means for promoting the social, economic, and medical welfare of the peoples in the region, and to this end several projects have been organized. The South Pacific Health Service advises member Governments on health matters, collects and distributes epidemiological information, assists in the maintenance of professional staffs, and encourages medical research and the training of indigenous people as assistant medical practitioners and nurses.

The Department is responsible for the conduct of New Zealand's Trusteeship for the Territory of Western Samoa, and each year presents a report which is examined by the Trusteeship Council. Annual reports are also forwarded to the United Nations Committee on Information from Non-self-governing Territories regarding progress made in the Cook Islands, Niue, and the Tokelau Islands.

The Department is also responsible for the administration of the New Zealand Reparation Estates in Western Samoa, which is carried out through a General Manager. The Reparation Estates are composed of former German property taken over by the New Zealand Government in 1914 consequent on the occupation of the then German Samoa. The ex-German trading businesses were subsequently liquidated and the lands have been operated as a plantation and trading venture. Out of a present total of 33,245 acres, the Estates have 11,519 acres under cultivation and 4,681 leased to tenants. Some 80,200 acres have been divested from the Estates and passed over to the Government of Western Samoa for occupation by Samoans. Up to 31 March 1953 some £508,000 from the profits of the Estates had been expended on general development in the interests of the Territory. In 1952-53 the Estates' production was as follows: copra, 1,707 tons; cocoa, 400 tons; rubber, 63 tons. During this period 242,927 superficial feet of timber were produced, and 1,560 cattle slaughtered for meat.

The Officer for Islands Education is responsible under the Department for the co-ordination of educational policies in the various island groups, the appointment of New Zealand teachers on secondment, the publication of *School Journals* in the vernacular of the different groups, and the supply of modern teaching equipment. An island scholarship scheme instituted in 1945, under which selected students from all territories are given secondary and higher education in New Zealand, is under the Department's direction. Since the inauguration of the scheme 126 children have won scholarships, of whom 21 have already returned to employment in the islands.

By arrangement between the Governments of Fiji and New Zealand, young Samoans, Cook Islanders, and Niueans receive training over a period of four years at the Central Medical School, Suva, Fiji, to equip them for duty as assistant medical practitioners in their own territories. At 31 March 1953 there were 38 of these students at the school, made up of 20 from Western Samoa, 14 from the Cook Islands, 3 from Niue, and 1 from the Tokelau Islands.

New Zealand also exercises the administration of the Ross Dependency on behalf of the United Kingdom Government. The Ross Dependency is uninhabited. Brief mention is also made in this Section of Nauru Island, which is administered under a trusteeship, held jointly by the United Kingdom Government, the Government of Australia, and the New Zealand Government.

The term "island territories" does not include Stewart Island or the Chatham Islands, which form part of New Zealand, although, as mentioned earlier, the latter have been placed under the administrative direction of the Department of Island Territories. The following minor islands, which are referred to on page 2 of this Year Book, are also excluded: Three Kings Islands, Auckland Islands, Campbell Island, Antipodes Islands, Bounty Islands, Snares Islands, and Solander Island. None of these islands is regularly inhabited, although meteorological stations were established on the Auckland and Campbell Islands in 1940. The station in the Auckland Islands was closed in June 1945, but a staff of 5 is still engaged on Campbell Island maintaining meteorological records and conducting anisospheric research. A radio station is also established on Campbell Island. The Kermadec Islands are also excluded, for, although they are in the same category as the Cook Islands in that they originally ranked as annexed islands, all New Zealand laws extend to them and there is no separate administration. A meteorological station and an aeradio station have been established on Raoul Island. The population, including the official staff of Raoul Island, at 31 March 1953 numbered 10. This is the only island of the Kermadec Group that is inhabited.

COOK ISLANDS: Descriptive.—The Cook Islands were proclaimed a British Protectorate in 1888, and on 11 June 1901 they were annexed and proclaimed part of New Zealand under the Colonial Boundaries Act 1895. Niue, though one of the Cook Islands, has been under separate administration since 1903, and data relating to it are given later in this Section. Not including Niue, there are fifteen islands in the proclaimed territory, scattered over an area of some 850,000 square miles of ocean, and extending from Penrhyn, situated 9 degrees south of the Equator, to Mangaia, which is just north of the Tropic of Capricorn. The Cook Islands are bounded on the east and west by the 156th and 167th meridians of west longitude respectively, and on the north and south by the 8th and 23rd parallels of south latitude. The total land area of the fifteen islands is a little under 100 square miles, while Niue has an area slightly in excess of that figure.

Some of the islands of the Lower Group were discovered in 1773 by Captain Cook, who first touched at Manuae, Rarotonga and Mauke; however, were not officially recorded by Europeans until 1823, when the Rev. John Williams of the London Missionary Society located them, although there was some evidence of visits by the *Bounty* in 1778 and the *Cumberland* in 1814.

Of the islands of the Lower Group, Rarotonga, Aitutaki, Atiu, Miriara, Mauke, and Mangaia are elevated and fertile, while Manuae and Takeuta and the islands of the Northern Group, comprising Penrhyn, Manihiki, Rakahanga, Pukapuka, Palmerston, Nassau, and Suvarow, are sea-level coral atolls. As a consequence the southern islands support the greater population. With one exception, none of the islands possesses a good harbour.

The whole of the Cook Islands lie within the hurricane zone, and a number of destructive storms have been experienced, the most serious of which in later years occurred in March 1943 and in January 1946. The Cook Islands are not covered by a meteorological service with adequate quarters in Fiji, and no serious warning of tropical storms is available, and suitable precautions to be taken to protect life and property. From December to March the climate is warm and humid, and there is always the possibility of serious storms. In the remaining months of the year the climate of the Lower Group is mild and equable. The mean annual temperature in Rarotonga taken over the last forty years was 74.5° Fahrenheit, and the average yearly rainfall over the same period was 84 inches.

Rarotonga, the seat of the Cook Islands Administration, is well watered by creeks and streams, and all villages are supplied with water by means of a reticulation system. The other islands, both northern and southern, suffer from lack of streams and wells, but water is provided from public tanks, the number of which is being steadily increased.

Following is a brief description of the individual islands.

LOWER GROUP.—Rarotonga (16,500 acres), the most fertile island of the territory, rises to a height of 2,110 ft. It is clothed to the tops of the mountains with splendid vegetation, and has abundant streams, considerable tracts of sloping land, and rich alluvial valleys. The town of Avarua is the centre of the local administration, and is 1,633 miles from Auckland. There is an airfield on the island.

Mangaia (12,800 acres, 110 miles from Rarotonga) is the southeastermost of the Group. Mangaia is not as fertile as Rarotonga, but produces large quantities of coconuts, bananas, oranges, limes, other citrus fruits, etc. Mangaia is of volcanic origin and is surrounded by a barrier reef without passages. From a narrow sandy beach the shore rises in high cliffs to a mile-wide plateau, which descends again to almost sea-level, enclosing an ancient crater holding several volcanic mounds, the highest of which exceeds 550 ft. The crater drains by subterranean channels.

Atiu (6,950 acres, 116 miles from Rarotonga) resembles Mangaia in formation. R is a raised mass of coral, steep and rugged, except where there are small sandy beaches and some clefts. On the highest point of the central ridge coconuts, bananas, oranges, and coffee grow with the utmost luxuriance; and the kumara, one of the most valuable of South Sea vegetables, yields large crops.

Mauke (4,600 acres, 150 miles from Rarotonga) is a low circular island about two miles across, lying to the north-east of Rarotonga. Like Mangaia and Atiu, it is surrounded by an unbroken fringing reef. Mauke is very fertile.

Aitutaki (3,900 acres, 140 miles from Rarotonga) is about eighteen miles in circuit and one of the most fertile of the islands forming the Lower Group. It has an airfield, and a flying-boat base which is used regularly by the Coral Route service to Tahiti.

Miriara (2,500 acres, 142 miles from Rarotonga) is a good example of an elevated coral reef, thinly coated with sand and gravel of the same material. The greater part of the surface is not more than 6 ft. above high-water mark.

Manuae (1,524 acres, 124 miles from Rarotonga) consists of two small islands, Manuae and Te-Au-o-Tu, joined by a coral reef. The two islands are in general usage covered by the term Manuae; the name Hervey Islands is an alternative but rarely used title.

Takutea (302 acres, 118 miles from Rarotonga) is a small coral island, moderately fertile, but it is not regularly inhabited.

NORTHERN GROUP.—*Penrhyn* (2,432 acres, 737 miles from Rarotonga) is also sometimes known as Tongareva. The large lagoon with its two entrances affords the only land-locked shelter within the group for vessels other than fishing boats, and it is the refuge of trading schooners during the hurricane season. As drought conditions sometimes exist, large concrete tanks have been built for the conservation of rain water.

Manihiki (1,250 acres, 650 miles from Rarotonga) is an atoll about thirty miles in circumference, valuable for the extent of its coconut groves. It also suffers occasionally from droughts, and is equipped with concrete water tanks. It has a large pearl-shell industry and exported 288 tons of shell in 1952-53.

Pukapuka (1,250 acres, 715 miles from Rarotonga) is a small triangular-shaped atoll of about 3 miles in diameter, with its highest point about 150 ft. above sea level. The legendary history of its settlement is interesting through its New Zealand associations. It is stated that one of the Maori chiefs who came to New Zealand with the first migratory wave of the Maoris (as distinct from the Morioris or earlier settlers) decided to return with his immediate followers to Rarotonga. Winds took them out of their course, and they finally reached and settled in Pukapuka. The people of this island have somewhat different customs from those of the remainder of the group. A portion of one of the reef islets, known as Anchorage Island, is an Admiralty Reserve.

Rakahanga (1,000 acres, 674 miles from Rarotonga) is also an atoll, and shares its Resident Agent with Manihiki, from which it is only twenty-five miles distant.

Palmerston (1,000 acres, 270 miles from Rarotonga) consists of eight islets threaded along a reef. Palmerston also bears the name of Avaua, and is noted as the "San Pablo" of Magellan, the first island discovered in the South Seas.

Suvarrow (600 acres, 513 miles from Rarotonga) is a coral atoll of triangular form possessing a land-locked lagoon eight miles by six, which is capable of being made into an excellent harbour. The island, which has been much reduced in land area by storms, is a sanctuary for sea birds, and part of it is a naval reserve.

Nassau (300 acres, 673 miles from Rarotonga) is a small island well planted with coconut trees. It was recently purchased by the people of Pukapuka, who were suffering from a shortage of land.

Administration.—Provision for the government of the Cook Islands is contained in the Cook Islands Act 1915. Under this Act there is appointed a Resident Commissioner charged with the administration of the executive government of the Cook Islands. The Resident Commissioner resides in Rarotonga and is represented in the outer islands by Resident Agents.

Popular representation is effected by the Island Council in each of the ten main islands, each Council consisting of *ex officio* members (officials and arkis, or leading chiefs) and elected members. Elections were first held in March 1947, and thereafter are conducted triennially in each constituency, the franchise extending to all Cook Island Maoris of eighteen years of age or over. The Maoris are British subjects, and the provisions of the British Nationality and New Zealand Citizenship Act 1948 apply to them. The Resident Commissioner in Rarotonga and the Resident Agents in the outlying islands preside over the respective Island Councils. Prior to 1947 the Island Councils consisted of the Resident Commissioner or Resident Agent, the arkis, and a number of nominated members. Europeans are represented by one elected member on the Rarotonga Island Council.

The Cook Islands Amendment Act 1946, under which these Island Councils were reconstituted, also provided for a Legislative Council of the Cook Islands, the inaugural session of which was held in 1947. This Legislative Council consists of ten unofficial members elected by the Island Councils and ten official members of the Cook Islands Public Service appointed by the Governor-General, with the Resident Commissioner as President. At meetings of this Council the Resident Commissioner has a casting, but not a deliberative, vote.

Laws governing the Cook Islands are made by Act of the New Zealand Parliament or by Orders in Council and regulations issued thereunder. Ordinances applicable to the whole of the Cook Islands may be made by the Legislative Council of the Cook Islands, subject to certain statutory restrictions. These Ordinances require the assent of the Resident Commissioner, and may be disallowed either wholly or in part by the Governor-General within one year after the assent of the Resident Commissioner has been given. Ordinances restricted in their application to the islands in which they are made may be enacted by the local Island Councils. These local Ordinances require the consent of the Resident Commissioner, or they may be reserved for the Governor-General's pleasure.

The administration of justice is in the hands of the High Court, the Native Land Court, and the Native Appellate Court. The High Court exercises civil and criminal jurisdiction throughout the Cook Islands, while the Native Land Court is concerned with litigation on lands and titles. The Native Appellate Court hears appeals and applications for rehearings in respect of judgments of the Native Land Court.

The Cook Islands Public Service comes under the control of the New Zealand Public Service Commission.

Population and Vital Statistics.—The Cook Island Maori is a Polynesian and is closely related to the New Zealand Maori. There is a strong resemblance between the two peoples in tradition, language, and custom. Many of the tribes in both places are able to trace their descent back to a common ancestor. A census of the Cook Islands taken on 25 September 1951 recorded a total population (exclusive of Niue) of 15,079, an increase of 991, or 7.03 per cent, as compared with the census of 25 September 1945. The Cook Island Maori population increased from 13,574 to 14,757, the remainder of the population decreasing from 514 to 322. Details of the population of the islands of the group as at 31 March 1953, together with corresponding totals shown by the 1951 and 1945 censuses, are set out in the following table.

Cook Islands	Population as at 31 March 1953				Total Population	1951 Census Total	1945 Census Total
	Indigenous Males	Indigenous Females	Non-indigenous Males	Non-indigenous Females			
Northern Group—							
Penrhyn	286	257	2	2	547	527	654
Rakahanga	139	139	1	1	279	261	318
Manihiki	439	400	2	1	841	816	435
Pukapuka	289	285			574	559	662
Nassau ¹	71	53			124	124	
Suvarrow ¹			1		1		5
Palmerston	40	51			91	87	65
Lower Group—							
Aitutaki	1,240	1,199	13	5	2,457	2,396	2,356
Manuae	11	8	1		20	20	28
Mitiaro	165	152	1		318	305	229
Atiu	683	659	6		1,348	1,270	1,114
Mauke	458	411	3	3	875	826	804
Rarotonga	2,960	2,711	205	112	5,988	6,048	5,573
Mangaia	941	931	6	2	1,880	1,830	1,845
Totals	7,722	7,256	241	124	15,243	15,079	14,088
¹ Not inhabited at time of 1945 census.							
² Not inhabited at time of 1951 census.							

At the date of the 1951 census there were 239 Cook Island labourers absent at Makatea Island. This number was made up as follows: from Mitiaro, 12; Atiu, 40; Mauke, 36; Rarotonga, 88; and Mangaia, 63. At 31 March 1953 the total was 255.

During the year ended 31 March 1953 births numbered 654 and deaths 246. The number of deaths under one year of age in 1952-53 was 90.

Health.—In accordance with the provisions of the Cook Islands Act 1915, all Cook Islanders receive free medical and surgical treatment in their villages, in the hospital, and in the tuberculosis sanatorium. Cook Island Maori patients in the hospital and the sanatorium, and all school children, receive free dental treatment.

Although lying within the tropics, the Cook Islands are singularly free from the common diseases prevalent in other tropical islands. Malaria is unknown, but filariasis is endemic, and this and tuberculosis provide the main health problems of the Group. The objective of the health services—to improve the health of the community—is being pursued by a system of village sanitary inspection and group medical examination, combined with modern treatment of disease in dispensary, clinic, hospital, and sanatorium.

The health services have been headed by the Acting Chief Medical Officer, and include eight assistant medical practitioners (Maori), and fourteen Maori health inspectors. Hospital and sanatorium staff includes the European Matron, three European Sisters, and a number of trained Maori nurses.

A general hospital (50-bed) equipped with dispensary, X-ray, and laboratory facilities, and a tuberculosis sanatorium (40-bed) are maintained in Rarotonga. In the outer islands dispensaries with accommodation for a few patients are operated by assistant medical practitioners.

A child-welfare organization covering all phases of maternity and child-welfare work operates under the supervision of the Chief Medical Officer and the Cook Islands medical practitioners. Regular clinics are held and periodical reports are given to the Child Welfare Committees in the villages.

The dental staff centred on Rarotonga Dental Clinic consists of a New Zealand dental officer and dental nurse and two Cook Islands dental nurses, while three dental assistants are stationed in outer islands. During 1952, 3,638 children were rendered dentally fit, including 1,071 children treated for the first time. In all, 23,109 dental operations were carried out in the Cook Islands.

Expenditure on health services during the financial year ended 31 March 1953 amounted to £67,691.

Education.—Primary education in the Cook Islands is provided by the Administration, the Roman Catholic Mission, and the Seventh Day Adventist Mission, post-primary education being provided by the Administration for children selected from throughout the Group. During 1952 all schools hitherto administered by the London Missionary Society in the Northern Group were taken over by the Administration in accordance with an agreement between the Administration and the Society.

Education is free and compulsory between the ages of six and fourteen. At 31 March 1953 the total number of pupils on the rolls was 4,113, comprising 3,707 pupils at Government schools and 406 at denominational schools. The average attendance at Administration schools throughout the year was 94.2 per cent.

The curriculum provides for children to be taught in the vernacular for the first two years, with English being taught only as a subject. On the third and subsequent years English reading is introduced, and English becomes to an ever-increasing extent the medium of instruction and expression. Although it is still too early to form definite conclusions, it appears that the children learn to read and express themselves in English much more readily as a result of their early education in the vernacular. The curriculum includes art and craft work, woodwork, instruction, agricultural instruction, visual education, and, in Rarotonga, domestic science for senior girls.

Post-primary classes instituted in 1950 are being continued in temporary accommodation at Avaua School until a secondary school at Tereora is established. The Government scholarship scheme has been continued, and five boys proceeded to New Zealand early in 1953. The total number of scholarships granted since 1946 is now 33.

There is still a shortage of suitable textbooks, and the *Cook Islands School Journal* is of great value in providing some literature in the vernacular.

Expenditure on education for the year amounted to £64,059, including £44,685 on salaries and £4,098 on milk in schools. In addition, £7,406 was spent by the New Zealand Government in New Zealand on the scholarship scheme for Cook Islands students.

Adult education work has continued in Rarotonga, and community centres have been established at Ngatangia and Arorangi.

Labour and Employment.—There is a wide variation in types of employment in the different islands. On the atolls in the Northern Group the island people subsist largely on coconuts and fish, and there is little opportunity for them to engage in other pursuits which would provide exports and a consequent higher living standard. In the islands of Manihiki and Penrhyn pearl diving is carried out under regulations which restrict this employment to Polynesians, and otherwise govern the industry. A strict control of this industry is enforced to ensure that the beds are not depleted. It is in the fertile islands of the Lower Group that most of the population is concentrated, and labour is required for the growing, harvesting, packing, and shipment of fruit and copra, the staple exports on which living standards depend. As most of the land in these islands is held by family groups under customary title, the bulk of the people are engaged in work on their own plantations. There is, however, opportunity for wage earners in the administrative departments, in plantation work, and in the handling of fruit for export.

In Rarotonga secondary industries have been established in the form of two clothing factories manufacturing for export, and one footwear factory which serves a local and overseas demand for island-style sandals and shoes. The manufacture of handicrafts is on a domestic basis.

The Rarotonga electric-power scheme has been extended during recent years. There are no power schemes on any of the outlying islands.

Wage standards were fixed for all types of industrial work following the sittings of a special Wages Tribunal in 1946. Further progress in the field of employment relations was initiated by the passing of the Cook Islands Industrial Union Regulations 1947, resulting in the registration of the Cook Islands (Except Niue) Industrial Union of Workers, thus establishing a basis for collective negotiation and arbitration on industrial matters.

During 1950 agreements between the union and all major employers were negotiated by conciliation committees presided over by the Industrial Relations Officer. These negotiations were repeated in 1951 and provided for an increase in all basic wages, and in order to rehabilitate the industry a citrus-replanting scheme was instituted in 1945, providing for assistance to growers in establishing plots. Considerable progress has been made with this scheme, particularly in its revised form, and nurseries are established in Rarotonga, Aitutaki, Mauke, and Atiu. At 31 March 1953, 595 plots, totalling 372½ acres, had been planted under the scheme. Owing to lack of shipping facilities and storm damage the production of bananas has declined in recent years, but at present attempts are being made to interest growers in rejuvenating the industry. The Administration has maintained nurseries for the propagation of banana shoots, which are distributed to growers for planting. Arrowroot is cultivated in Aitutaki, while Mangaia shipped 14,655 cases of pineapples to New Zealand in 1952-53. The extension of these industries may well assist in providing cargo during the lean period between orange seasons.

Labour is recruited by the French Phosphate Company of Oceania to work the phosphate deposits at Makatea, in the Society Islands. Individual labourers are recruited on single-year contracts, and are given medical examinations both before and after their term of employment, during which they are required to make allotments from their wages either to their dependants or to their savings-bank accounts. The work is relatively highly paid, and many workers seek reemployment on the termination of their contracts. At 31 March 1953 there were 255 labourers at Makatea.

There is no movement of migratory labour into the Cook Islands, although some migration occurs from the less-fertile islands of the Northern Group to Rarotonga and other islands of the Lower Group.

A number of Cook Island Maori, principally girls, go to New Zealand to engage in domestic service or to learn trades. This migration is under supervision, and persons desiring to leave the islands are subject to examination for health and character.

Agriculture.—The principal crops of the Cook Islands, apart from island vegetable crops, are citrus fruits, bananas, tomatoes, and coconuts, while arrowroot is also grown. Some years ago deterioration of the orange trees became increasingly evident, and in order to rehabilitate the industry a citrus-replanting scheme was instituted in 1945, providing for assistance to growers in establishing plots. Considerable progress has been made with this scheme, particularly in its revised form, and nurseries are established in Rarotonga, Aitutaki, Mauke, and Atiu. At 31 March 1953, 595 plots, totalling 372½ acres, had been planted under the scheme. Owing to lack of shipping facilities and storm damage the production of bananas has declined in recent years, but at present attempts are being made to interest growers in rejuvenating the industry. The Administration has maintained nurseries for the propagation of banana shoots, which are distributed to growers for planting. Arrowroot is cultivated in Aitutaki, while Mangaia shipped 14,655 cases of pineapples to New Zealand in 1952-53. The extension of these industries may well assist in providing cargo during the lean period between orange seasons.

The following are the estimated areas planted in the principal crops: coconuts, 18,000 acres; citrus fruits, 1,000 acres; tomatoes, 425 acres; manioc (cassava), 365 acres; kumaras, 135 acres; taro, 450 acres; taro tarua, 25 acres.

It is estimated that there are 1,800 horses, 800 head of cattle, 9,000 pigs, and 2,600 goats on the islands.

Ownership of Maori land is based on ancient Maori custom. Practically all land is either Maori customary land or Maori freehold land. The sale of Maori land is prohibited by law.

With the setting-up of a 44-acre experimental farm on Rarotonga a start has been made in plant breeding and selection. Trials have been conducted in tomato growing, and research has been carried out regarding the possibilities of establishing other crops such as ginger, cotton, chillies, guava, eating beans, improved varieties of kumaras and taro, coffee, and pasture grasses. Another small experimental farm has been established on Atiu Island to test the possibilities of typical fern land and particularly its reaction to manual treatment.

In 1953, in order to aid the economy of the Cook Islands, the New Zealand Government approved an extension of the citrus replanting scheme and the erection of a central coolstore and packing shed at Rarotonga.

Forestry.—There are few marketable types of forest trees in the islands. In the Lower Group the land is covered by secondary growth, coconut palms, and a scattering of larger trees, including breadfruit, mango, kapok, and chestnut. In the Northern Group the growth is mainly of coconut palms and low scrub.

Proposals for afforestation on a moderate scale are under way, and a commencement was made on the fern lands of Atiu in 1951, the species planted being *Albizia* and *Simu radialis*. The main objects of the scheme are to prevent soil erosion and provide timber for fruit cases.

Transport and Communications.—For trading connections with other countries the islands are mainly dependent on a steamer service to and from New Zealand. This service makes regular calls at Rarotonga and occasional calls for the purpose of loading cargoes of oranges in season, at the larger and more productive of the islands of the Lower Group. Occasional calls are made by trans-Pacific cargo vessels at Rarotonga. Until October 1952 the New Zealand National Airways Corporation operated a fortnightly service from Auckland to Fiji, Western Samoa, Aitutaki, and Rarotonga, but this service has been replaced by the Tasman Empire Airways fortnightly Coral Reef service which does not call at Rarotonga. Aitutaki being the only island in the Cook Group served by the new service.

Radio communication has largely removed the former isolation of the islands, there being now no permanently inhabited island without a radio station. The chief station is Rarotonga Radio, which maintains direct communication with the substations and with Wellington, Apia, and Suva. Postal and telegraph services are available in all the islands, and there is a telephone service in Rarotonga.

Trade.—A summary of exports by country of destination and imports by country of origin for each of the last five calendar years is tabulated in the next table.

—	1948	1949	1950	1951	1952
	£	£	£	£	£
<i>Exports, by Country of Destination</i>					
New Zealand	155,584	165,033	147,700	196,227	267,379
Australia				106	2,606
United States of America	514	48,903	80,148	115,273	53,856
United Kingdom					35,065
Other countries		84	911	3,022	6,493
Totals	156,098	214,020	228,759	314,628	365,399
<i>Imports, by Country of Origin</i>					
New Zealand	226,427	212,329	336,275	278,091	386,669
Australia	8,208	7,845	9,119	16,088	16,344
United Kingdom	48,814	68,510	98,501	89,006	117,969
Canada	2,872	6,818	11,113	10,816	23,325
United States of America	7,353	11,590	4,226	12,638	17,913
Other countries	6,175	8,445	13,859	30,757	30,195
Totals	299,849	315,537	473,093	437,396	592,415

The New Zealand Customs Tariff applies to the Cook Islands with additional special duties on sugar, cotton piece-goods (except calico), linen piece-goods, piece-goods of mixed linen and cotton, and black twist tobacco. During the war period import, finance, and price controls were instituted and have been kept in force. Import licences are required for certain goods imported from New Zealand and for all goods imported from hard-currency countries. A contract has been concluded with the United Kingdom Ministry of Food for the sale of copra produced in the Group. The contract, which is for a period of nine years from 1 January 1949, is having a stabilizing effect on the Group's economy.

Details of the quantities and values of the principal commodities exported in 1951 and 1952 are shown below.

Commodity	1951		1952	
	Quantity	Value	Quantity	Value
	Cases	£	Cases	£
Citrus fruits	15,038	15,705	60,760	69,702
Bananas	56	29	110	85
Pineapples	7,307	5,846	15,195	13,086
	Boxes		Boxes	
Tomatoes	27,157	29,021	59,844	41,004
	Tons		Tons	
Copra	1,320	71,668	1,336	86,702
Mother-of-pearl shell	495	115,019	301	69,809
Arrowroot	1½	87		
Candlemas				
Handicrafts, grassware, etc.		266		1,685
Manufactured goods (apparel)		58,987		56,102

Foodstuffs continue to be the largest class of import; major imports for 1952, with comparative figures for 1951, are set out in the following table.

Commodity	Value		Percentage of Total Imports	
	1951	1952	1951	1952
	£	£	Per Cent	Per Cent
Foodstuffs	151,586	176,958	34.6	29.8
Drapery and piece-goods	69,394	93,418	15.8	15.7
Oils and petrol, etc.	26,098	32,823	5.9	5.5
Tobacco and cigarettes	20,246	26,056	4.6	4.3
Vehicles and parts	17,302	24,395	3.9	4.1
Fruit cases and sacks	11,354	13,659	2.6	2.3

Public Finance.—New Zealand currency is in use in the Group. The principal sources of revenue within the Group are import duties £49,406, export duties £8,091, and stamp sales £7,496. Apart from income tax, which may be payable in some cases, there is no direct taxation of the Maori community.

The New Zealand Government has continued to make subsidies and grants available on a generous scale for capital development in health, education, and other social services, and for meeting the budgetary deficits of the Group.

A comparative statement of revenue and expenditure for the last five years is shown hereunder.

Year	Revenue	Expenditure	Deficit	Subsidies and Grants
	£	£	£	£
1948-49	85,822	207,302	121,480	100,249
1949-50	131,281	259,806	128,525	155,514
1950-51	142,883	281,722	138,839	103,899
1951-52	156,913	396,081	239,168	180,971
1952-53	225,736	453,557	227,821	276,382

The principal items of expenditure in 1952-53 were £64,059 on education, £67,691 on health services, and £77,079 on public works. More detailed information in respect of the Cook Islands and Niue Island will be found in parliamentary paper A-3 for the year ended 31 March 1953.

NIUE: Descriptive.—Niue Island, discovered by Captain Cook in 1774, became part of New Zealand in 1901, when the boundaries of New Zealand were extended to include the Cook Islands. As stated previously, Niue is part of the Cook Islands, but has been under separate administration since 1903. The island is situated in latitude 19° 02' south and longitude 169° 52' west, somewhat west of the centre of the irregular triangle formed by Samoa, Tonga, and the southern Cook Islands, and is 600 miles distant from the latter. The island, which has an area of 64,028 acres, is an elevated coral outcrop with a coral reef fringing a precipitous and broken coastline. The central saucer-shaped plateau, rising to a height of 220 ft., is encircled, by a narrow terrace about 90 ft. above sea level. There are no running streams, and the island is dependent on rain water, which is stored in tanks. The soil, though fertile, is not plentiful, and this feature, combined with the rocky and broken nature of the country, makes cultivation difficult and has precluded the grazing of stock in the past, although some goats were recently introduced to provide milk. The climate is mild and equable, and, although on the edge of the hurricane belt, the island is seldom visited by serious weather disturbances. The mean annual temperature during the last thirty years was 76.6° Fahrenheit, and the average annual rainfall for a similar period was 79.3 in.

The port of Alofi has an open roadstead anchorage which is satisfactory in fair weather.

Administration.—Provision for the administration of Niue is made in the Cook Islands Act 1915, which provides for the appointment of a Resident Commissioner charged with the administration of the executive government of Niue. Laws are made by Act of the New Zealand Parliament, or regulations issued thereunder, or by Ordinance passed by the local Island Council. This body meets periodically under the presidency of the Resident Commissioner, and consists at present of thirteen Niuean members appointed by the Governor-General, and representing all villages on the island.

Population and Vital Statistics.—The Niuean is of Polynesian stock and the language a Polynesian dialect peculiar to the island, but closely related to that of Tonga, Samoa, and the Cook Islands. Owing to the limited natural resources, and the earlier extensive use of Niueans as indentured labour in other Pacific groups, the population has shown little increase in numbers, and that increase has been during recent years. Totals of the nine censuses taken since the annexation of Niue by New Zealand (11 June 1901) are as follows.

Census	Population
1902	4,079
1906	3,822
1911	3,943
1916	3,880
1921	3,750
1926	3,795
1936	4,104
1945	4,253
1951	4,553

The following table shows the estimated population as at 31 March 1953.

—	Niuean	Others	Total
Males	2,203	21	2,224
Females	2,373	16	2,389
Totals	4,576	37	4,613

The inhabitants are distributed amongst twelve villages, of which Alofi, with a population of 914 at the date of the recent census, is the largest. The inhabitants of Niue are British subjects and New Zealand citizens.

For the calendar year 1952 births totalled 170 and deaths 50. There were 6 deaths under one year of age, the infant-mortality rate per 1,000 live births being 35.3.

Health.—Niue, although situated in the tropics, is largely free from diseases prevalent in tropical countries. However, certain other infections, notably tuberculosis, have become established, which, together with periodic epidemics, have provided the main health problem. The endemic disease of filariasis remains prevalent, but the use of recently discovered drugs gives new hope of combating this old enemy of Pacific peoples. The number of cases of yaws has decreased considerably over the last five years. The principal difficulty in combating disease in Niue lies in the ignorance of the people, who are still somewhat primitive and superstitious. The standard of living is low, and the people show an apathetic attitude towards general hygiene. Another difficulty which the Administration has to face constantly is the activities of the "tautaua" or bush medicine men. There is no doubt that this practice is prevalent among the people, but it is exceedingly difficult to obtain evidence against those involved.

All medical and dental treatment, including hospitalization, is provided free of charge to the inhabitants, the money for this expenditure being provided out of subsidies from the New Zealand Government. There is a Government hospital of twenty beds, but it averages many more patients during periods of epidemic or serious illness. Attached to the hospital is an X-ray unit, a dispensary, an outpatients' clinic, and a dental clinic. All outer villages are visited each week by the Medical Officer, and a fully-equipped mobile clinic was purchased and put into operation in November 1950. The whole of the child-welfare and ante-natal work is carried out in this clinic. The staff at December 1952 consisted of the Chief Medical Officer, the Matron, a Child Welfare Sister, Tutor Sister, two assistant medical practitioners, two assistant dental practitioners, twelve nurses, and twelve others variously engaged.

The total expenditure on public health for 1952-53 amounted to 17 per cent of the total expenditure for the Territory. The amounts expended on public health during the past five years were as follows.

—	1948-49	1949-50	1950-51	1951-52	1952-53
Amount expended	£8,019	£7,529	£9,650	£11,669	£17,539
Population	4,333	4,471	4,496	4,588	4,613

Local talent is being used to prepare posters on health subjects, and pamphlets on rubbish control have been cyclostyled and distributed.

Education.—In 1951, after protracted negotiations with the London Missionary Society, the Administration took over the remaining mission schools and so assumed responsibility for all primary education in Niue. The nine former schools were consolidated into regional schools under the control of a European Headmaster in Charge, these schools all having Niuean headmasters. There are now a total of seven schools on Niue.

The total number of scholars attending schools at the end of 1952 was 1,169. The present policy is to increase the amount of the vernacular used in the schools, to foster in the schools the indigenous culture of the island, and to encourage local handicrafts as a part of school activities. The first issue of a *School Journal* in Niuean was published in December 1949, while teaching aids, etc., are supplied by New Zealand. Education is free and compulsory for those aged from five to fourteen years.

Labour and Employment.—The only substantial employer of labour is the Administration, which employs Niueans in the Education, Police, Public Works, Transport, and other Departments, and in the loading or discharge of vessels. Apart from this, labour is engaged from time to time to prepare copra for shipment. During the last four years a large number of unskilled labourers has been employed on public works. The basic wage rates are 7s. per day for unskilled work, 9s. for waterside work, and on a varying scale for other employment. There is no unemployment problem.

Agriculture.—The chief agricultural exports are copra, bananas, and kumaras. All the copra exported is grown by Niueans, the prices paid to the growers being regulated by the Administration. All produce exported is inspected prior to shipment.

Steps are taken to ensure that every able-bodied male plants sufficient food crops each month for the sustenance of his wife and family.

The extremely rocky nature of the ground makes all agriculture difficult, as practically the whole of the arable land is confined to small pockets of soil among the coral rocks. Of the total area of some 65,000 acres, approximately 25,000 acres are more or less continuously cultivated, while some 15,000 acres have now been worked out and support only fern and scrub. The remaining 25,000 acres are either in coastal forest and scrub, light forest, or heavy forest.

As the Niuean depends for his livelihood upon his family lands, alienation is prohibited, so that there are no landowners apart from the Niueans and the Administration. Niuean land may not be leased for a period exceeding sixty years.

Transport and Communication.—There are no internal transport services. The transport of goods and produce to and from the port of Alofi is carried out by Administration and privately owned motor vehicles. There are some 70 miles of all-weather roads on the island.

At Alofi there is an open roadstead only, and cargo is handled by lighters.

Full postal services are provided at Alofi, where there is a Post Office Savings Bank. A single-line telephone system connects all villages on the island, and a radio station is maintained by the Administration for overseas communication.

Trade.—During 1952-53 inward cargo totalled 1,540 tons, while outward cargo totalled 1,485 tons. As usual, the bulk of the trade was with New Zealand.

The value of exports and imports for the last five years are given below.

Year	Exports	Imports	Total Trade
	£	£	£
1948	46,769	69,508	116,277
1949	52,052	76,761	128,813
1950	58,543	69,937	128,480
1951	55,555	83,447	139,002
1952	82,971	102,595	185,566

Exports of principal commodities during 1950, 1951, and 1952 were as follows.

Commodity	Unit of Quantity	1950		1951		1952	
		Quantity	Value	Quantity	Value	Quantity	Value
		£	£	£	£	£	£
Copra	Ton	937	46,860	685	38,201	956	63,277
Bananas	Care	3,276	2,173	5,666	4,090	5,267	3,580
Plated ware			8,048		10,016		8,251
Kumaras	Bag	147	51	15	5	819	1,166

As in the case of the Cook Islands, a nine years' contract for the copra supply has been entered into with the United Kingdom Ministry of Food.

The New Zealand Customs Tariff is in force, and there is free trade between the island and New Zealand. Local duties are, however, imposed on cotton piece-goods, sugar, and twist tobacco, irrespective of country of origin.

Public Finance.—Revenue within the island is raised principally from the sale of stamps, from import and export duties, and High Court fines. Income tax at New Zealand rates is levied on those with taxable incomes, while a poll tax is imposed on all Niuean males aged eighteen years and over.

Deficits are met by a subsidy from New Zealand. A comparative statement of revenue and expenditure during the last five financial years is given in the following table.

Year	Revenue	Expenditure	Deficit	Subsidy	Final Surplus or Deficit
	£	£	£	£	£
1948-49	19,434	50,820	31,386	32,257	+ 871
1949-50	34,673	74,942	40,269	44,838	+ 4,569
1950-51	42,909	68,225	25,316	34,217	+ 8,901
1951-52	36,628	107,275	70,647	59,576	-11,071
1952-53	42,315	100,918	58,603	49,671	-8,932

WESTERN SAMOA: Descriptive.—Western Samoa comprises the two large islands of Upolu and Savai'i, and islets of Apolima, Manono, Fiamatapu, Nani'u'a, Nu'utele, Nu'u'ua, and Nu'asai'c. The geographical boundaries there between latitude 13 degrees and 15 degrees south and longitude 171 degrees and 173 degrees west.

Savai'i is the larger of the two main islands, with a length of 46 miles, a breadth of 25 miles, and a total area of 703 square miles. The island is mountainous, rising to a height of 6,094 ft. Upolu, which extends some 45 miles in length and 13 in breadth, measures about 430 square miles in area, and lies to a height of 3,608 ft. Of the two, Upolu is the more fertile and populous, and contains two-thirds of the population. Only two of the smaller islands, Manono and Apolima, which are situated in the strait which separates Savai'i and Upolu, are inhabited. The remainder are within or near the fringing reef surrounding Upolu. The climate of the group is equable, the average temperatures during the last sixty years showing a mean daily maximum of 84.9° Fahrenheit, and a mean daily minimum of 74.0° Fahrenheit, while the average annual rainfall for a period of sixty years is 112.98 in.

Administration.—The territory of Western Samoa was formerly administered pursuant to a mandate conferred upon His Britannic Majesty, to be exercised on his behalf by the Government of New Zealand, and confirmed by the Council of the League of Nations on 17 December 1920.

Following the establishment by the Charter of the United Nations of an international trusteeship system, New Zealand in January 1946 communicated to the General Assembly of the United Nations its acceptance of the system in its application to Western Samoa.

A draft trusteeship agreement submitted by the New Zealand Government to the United Nations in October 1946 was, with minor amendments, adopted by the General Assembly on 13 December 1946. In this agreement (printed as parliamentary paper A-2c, 1947) the Government of New Zealand is designated as the administering authority for Western Samoa.

In the meantime the Samoan people asked that they be granted self-government, with New Zealand remaining in the role of adviser and protector. A petition to this effect was transmitted to the Secretary-General of the United Nations through the New Zealand Government in January 1947. The petition was considered by the Trusteeship Council on 24 April 1947 and, on the invitation of the New Zealand delegate, a Mission of Inquiry arrived in Western Samoa the following July.

On 27 August 1947 the New Zealand Government's proposals for political development in Western Samoa were outlined in a statement in Parliament. The Mission published its report in October 1947 and it was considered by the Trusteeship Council in the following month. The recommendations of the Mission were found to be closely in line with the policy of the Administering Authority. The constitutional framework for implementing these proposals was established with the passing by the New Zealand Parliament of the Samoa Amendment Act 1947, which came into force on 10 March 1948.

In 1952 an amendment to the Samoa Act provided for the creation of an Executive Council, which consists of the High Commissioner, the Fautua, three official members, three Samoan members, and one European member. The functions of this Council are to confer with and advise the High Commissioner on the formation of policy.

The administration of the Executive Government is entrusted to the High Commissioner, who is appointed by the Governor-General of New Zealand, and is responsible to the Minister of Island Territories. He is President of the Council of State and of the Legislative Assembly. He also presides at those meetings of the Fono of Faipule which he attends. The High Commissioner has no "reserve" or emergency powers of his own.

The Council of State is composed of the High Commissioner and the Fautua. Appointments to the Fautua are made by the Governor-General, who in an appropriate case would invite the Samoan members of the Legislative Assembly and the members of the Fono of Faipule to submit recommendations. At present there are two Fautua, who are the representatives of the two royal lines of Tupua and Malietoa. The High Commissioner is directed to consult the Council of State upon all proposals for legislation to be submitted to the Legislative Assembly on all matters closely relating to Samoan custom, and on any other matters affecting the welfare of Western Samoa which he considers proper.

The Legislative Assembly is composed of the members of the Council of State, twelve elected Samoan members, five elected European members, and six official members. The right of electing the Samoan members was conferred on the Fono of Faipule by the Samoa Amendment Act 1947. This body at present has forty-one members representing territorial constituencies based on the traditional districts and sub-districts of Western Samoa. Each constituency returns one member, who must be supported by a majority of the matai in the constituency. The franchise is confined to the matai. The Samoa Amendment Act 1923, as later amended, gave the Fono of Faipule a statutory right "to consider such matters relative to the welfare of the Samoan people as of their own initiative they think proper, or as may be submitted to them by the High Commissioner, and to express their opinions and make their recommendations to the High Commissioner." In addition, by a custom which has developed over a period of years, the Fono submits nominations for the appointment of Samoan District Judges, the Samoan Plantation Inspectors, and the Samoan Associate Judges of the Land and Titles Court.

The laws of the Territory are made by Act of the New Zealand Parliament or by Ordinances passed for the peace, order, and good government of the Territory by the Legislative Assembly of Samoa. In addition, by the Samoa Act 1921, the Governor-General in Council is empowered to make in New Zealand "all such regulations as he thinks necessary for the peace, order, and good government of the Territory." These powers are intended as a safeguard for New Zealand's position as trustee, and not as the normal means of legislation. The scope of the legislative power of the Assembly was specifically widened under the 1947 amendment to include the power of overriding New Zealand legislation, except in regard to certain reserved subjects.

The work of the Executive Government is carried on, under the High Commissioner, by a Secretariat headed by the Secretary of the Government of Western Samoa and comprising suitable ancillary services.

Since the coming into force of the Western Samoa New Zealand Protected Persons Order 1950, the national status of the great majority of Samoans is that of New Zealand protected persons. This is in accordance with the expressed wish of the Samoans themselves. The non-indigenous inhabitants of the Territory retain their own nationality and citizenship. Under the provisions of the British Nationality and New Zealand Citizenship Act 1948, however, individual inhabitants of the Territory may apply for New Zealand citizenship by naturalization. As at 31 December 1952 certificates of naturalization had been granted to 54 Samoans and to 99 inhabitants of European status, including children in both cases.

During 1951 an amendment to the Samoa Act provided for the substitution of the word "Samoan" for the word "Native" in all legislation. This brings the older legislation into line with current usage, and gives legal recognition to the fact that the various Pacific peoples have their own distinctive traits and characteristics.

In March 1953 the Prime Minister of New Zealand issued a statement on political, economic, and social advancement in Western Samoa, and outlined proposals for the holding of a constitutional convention in 1954, at which a constitutional plan for the future State of Western Samoa will be considered.

The Samoa Amendment Act 1953 gave the Legislative Assembly of Western Samoa power to make ordinances for the establishment of inferior Courts of Justice with civil or criminal jurisdiction. By the same Act the jurisdiction of Samoan Judges of the High Court with two or more years' standing may, if the High Commissioner thinks fit, be extended to deal with persons other than Samoans, and to impose terms of imprisonment.

The Public Service.—The Samoa Amendment Act 1949, which came into force on 1 April 1950, established a Western Samoan Public Service under the control of a Public Service Commissioner of Western Samoa, who is appointed by the Governor-General of New Zealand. The Commissioner is assisted by two Assistant Public Service Commissioners, one of whom is the Secretary of Island Territories or his deputy, and the other appointed by the Governor-General on the nomination of the Council of State. At 31 December 1952, 986 persons were employed, in the Western Samoan Public Service, of whom 53 were domiciled overseas.

Population and Vital Statistics.—A population census held in September 1951 showed a total population of 84,909, an increase of 16,712 since the previous census, which was held in 1945.

The following table shows the summarized results, together with the corresponding figures for the 1945 census.

—	1945 Census	1951 Census
Samoans (including other Polynesians)	62,497	80,153
Part-Samoans	5,040	4,142
Europeans	359	450
Chinese	301	164
Totals	68,197	84,909

Apia, the only town in the Territory, is situated on the north coast of Upolu and, together with immediately adjoining villages, has a population of approximately 16,000. It is the administrative headquarters and the only port of entry. The great majority of persons of European status live in or about Apia.

The following figures, which show the numbers of Samoans (including other Island races) at varying intervals, reveal a rapid rate of increase in recent years. The heavy toll exacted by the influenza epidemic in 1918 is evident from the estimates of 1 October and 31 December of that year.

German régime—	
Census mid-1906	33,478
Census mid-1911	33,554
New Zealand Administration—	
Census mid-1917	36,216
Estimated, 1 October 1918	37,113
Estimated, 31 December 1918	31,200
Census, 17 April 1921	32,522
Census, 1 January 1926	36,880
Census, 4 November 1936	52,266
Census, 25 September 1945	62,497
Census, 25 September 1951	80,153

The estimated population at 31 December 1952 was 85,416. During 1952 there were 3,210 births and 613 deaths, while arrivals in the Territory numbered 4,001 and departures 4,750. The Samoan infant-mortality rate (i.e., deaths under one year of age per 1,000 live births) was 53.32.

Health.—Western Samoa is free from many of the diseases which present the most serious health problems in large areas of the tropics. The climate is healthy even for Europeans unaccustomed to the heat and humidity, and the general level of nutrition is more satisfactory than in a great many tropical regions. The most prevalent diseases are hookworm, yaws, and filariasis, and diseases which result from faulty sanitation, such as typhoid, dysentery, and infantile diarrhoea. Tuberculosis is also a major problem, and chest diseases such as pneumonia are common. Considerable illness among children is caused by faulty feeding. Epidemics of such common ailments as influenza and mumps occur from time to time, but now that the people have access to medical remedies and are in the habit of using them, such epidemics are not a major cause of death or permanently impaired health. The death rate and infant mortality rate in Western Samoa compare favourably with those in most other parts of the Pacific, but they are still high by western standards.

Close co-operation is maintained with the Epidemiological Information Service of the South Pacific Health Service.

Apia Hospital has 216 beds, half in European-style buildings, the other half in Samoan fale-type wards. Early in 1952 a new district hospital was opened in Poutasi. Mobile clinics operate in the roaded areas of Savai'i and Upolu, the main function of these clinics being the early recognition and treatment of minor conditions among school children.

The district medical organization is based on the assumption that where a good transport system exists all seriously ill cases should be brought to a central hospital. Where there are inadequate transport services, provision must be made to deal locally with a larger variety of cases than otherwise might be dealt with, and in these cases district hospitals are required, whereas in better served areas dispensary stations are sufficient.

Most villages have a women's Village Committee, and these committees, by their close co-operation with the Samoan medical practitioners and nurses, do much to promote the health and welfare of the people. Health education is also carried on by means of radio broadcasts in both Samoan and English.

During 1952, 6,227 inpatients and 252,905 outpatients were treated by the hospitals, 6,215 operations were performed, and 75,157 T.A.B. and yaws injections were given.

Education.—In Western Samoa mission and Government schools function side by side, close cooperation being maintained between the controlling bodies. There are 366 mission schools throughout the Territory, with some 6,478 pupils. In addition to the 110 Government primary schools there are three advanced Government schools. The total number of students attending all Government schools in 1952 was 13,158.

Each year the Administering Authority awards approximately ten scholarships for study in New Zealand. These scholarships are awarded on the basis of a competitive examination, and enable students to attend primary and secondary boarding schools in New Zealand, from whence most proceed to higher establishments for professional or trade training. The scholarship scheme was inaugurated in 1945, and since then 83 pupils from Western Samoa have been awarded scholarships.

With the opening of Samoa College at Vaivase in February 1953 a further step towards higher education among the Samoan people has been reached. The opening roll was 227 pupils, of whom 50 were in the secondary department. The college will eventually become a boarding establishment. It is intended to develop the college gradually to replace the present scholarship scheme, instead of which secondary school pupils will receive scholarships for study at Universities in New Zealand.

In 1952 over £158,000 was spent on education, including a grant of £47,500 from the New Zealand Government. No direct financial assistance is given to denominational schools, but the Education Department of the Samoan Government renders assistance to the missions through its educational broadcasts, the provision of textbooks, the supply of educational films, the training of mission teachers, and the provision of refresher courses for teachers.

Educational Statistics.—The figures given below record the number of scholars at the various schools in 1952.

	Number of Scholars, 1952
Government primary schools, 5–18 years	12,861
Government vocational, 16–21 years	270
Government secondary, 16–19 years	27
Total, Government schools	13,158
Mission primary schools, 5–18 years	6,300
Mission vocational, 16–21 years	82
Mission secondary, 16–21 years	96
Total, Mission schools	6,478
Grand total	19,636

LABOUR.—In the primary schools, few pupils attend before the age of six years and most have left by the age of sixteen years.

NOTE and Employment.—Regular employment for wages is not a natural form of Samoan life. The plantations can, to a certain extent, overcome the difficulty regarding regular employment by engaging co-operative or community groups on casual work, but in the stores and in the Administration where regular daily tasks are required the labour turnover is very large. On the other hand, no difficulty is experienced in obtaining labour for the two or three days of intensive work available when a cargo vessel is in port.

Legal provision for the establishment of co-operative societies was made by the passing of the Co-operatives Society Ordinance in 1952, but no such societies have as yet been formed.

The basic minimum wage for Government employees is 9s. per day, with higher rates for semiskilled and skilled men.

Agriculture and Animal Husbandry.—Public services in connection with agriculture are organized under the Agriculture Department, which employs, in addition to clerical staff, a staff of Samoan Field Instructors and Samoan District Plantation Inspectors, the latter being resident in districts throughout Samoa.

The type of terrain on which export crops are grown precludes the widespread use of mechanical equipment, the soil being mixed with scoria and volcanic refuse in most areas. Domestic crops make adequate provision for village requirements under present methods of cultivation, and there is no incentive to increase yields by mechanized cultivation, if, indeed, this were within the means of the Samoan people.

In a normal season the Samoans find no difficulty in producing local food supplies sufficient to meet their requirements. Reliance on imported European foodstuffs is strongest among Samoans whose villages are found in the area surrounding Apia, although such foodstuffs, particularly flour and preserved meats, are popular throughout the Territory.

Livestock are of local importance. Pigs and poultry figure in the Samoan village economy, while cattle are raised on the New Zealand Reparation Estates and other plantations. Horses and mules are used as pack animals. The New Zealand Reparation Estates cattle, which number approximately 10,000 head, beside grazing the plantations clear of undergrowth, provide fresh beef for consumption in the Territory and hides for export. The herds consist mainly of the Hereford and Pollard Angus varieties, and are maintained and improved in quality by rotational grazing and careful selection for breeding. Cattle are also raised by a few individual planters, and milking herds are maintained by the Estates and by one planter.

The land of Western Samoa is classified in law as Crown land, Samoan land, and European land, there being some 88,000 acres of Crown lands, 583,000 acres of Samoan land, 33,000 acres of New Zealand Reparation Estates land, and about 21,000 acres of European land. It is estimated that about 400,000 acres, or 55 per cent. of the land area of the Territory is made up of steep hillsides, lava beds, or other unproductive areas, although as time passes lava beds gradually begin to support vegetation. The areas of land devoted to the principal crops are as follows: coconuts, 33,000 acres; bananas, 13,000 acres; cocoa, 6,900 acres; taro 4,600 acres; tiamau, 1,500 acres. It is estimated that production by Samoans accounts for 80 per cent of the copra exported, 60 per cent of the cocoa exported, and 95 per cent of the bananas exported.

Forestry.—The forests in Western Samoa are neither virgin nor densely stocked with valuable timber species. Savai'i has more extensive areas of forest than Upolu, but the rugged terrain precludes the economic extraction of the timber. Two milling concerns operate in Upolu, but together they supply only half the annual consumption of timber, which is about 1,500,000 superficial feet.

A forestry survey carried out in 1951 revealed the need for a planned economy and the conservation of natural resources, and demonstrated that Samoa's forests are not one of the country's major resources.

Industry.—Apart from the two sawmilling concerns there are no industrial activities of any magnitude in the Territory. There are a few small enterprises for the processing of coffee and the manufacture of cordials, curios and similar products. There are no mineral resources available for development.

Communications.—There is a monthly passenger and cargo service from New Zealand via Fiji and Tonga, while a fairly frequent service operates between Apia and Pago Pago in American Samoa. There is one airport, Faleolo, and until late in 1952 the New Zealand National Airways Corporation

operated a regular fortnightly service using this aerodrome. However, as a consequence of Tasman Empire Airways, Limited (TEAL), taking over the pacific services Faleolo is no longer in regular use, for TEAL operate Solent flying boats which use the recently extended Sataupaia flying-boat base adjacent to the airport. TEAL operate three trips per month, two of which go on to Tahiti and one of which terminates in Samoa.

There are 267 miles of roads suitable for vehicular traffic in the Territory.

Postal and telephone services are provided by the Postal Department.

Trade.—The exports and imports of Western Samoa for each of the last eleven years are as follows.

Year	Exports	Imports
	£	£
1942	385,976	299,664
1943	278,213	605,911
1944	391,317	460,764
1945	630,446	398,760
1946	719,050	478,695
1947	1,351,770	923,773
1948	1,108,258	954,028
1949	1,344,758	881,584
1950	1,303,761	1,095,121
1951	1,721,942	1,194,698
1952	1,778,084	1,687,790

The following table shows for the years 1951 and 1952 the value of exports and imports according to country of destination and country of origin.

Country	Exports (Including Re-exports)		Imports	
	1951	1952	1951	1952
	£	£	£	£
New Zealand	259,663	190,459	309,075	336,755
Australia	168,018	41,046	236,100	378,862
United Kingdom	971,031	1,267,454	252,468	410,411
Fiji	1,661	3,100	55,747	59,764
Canada	161	429	71,264	54,162
India			44,390	21,914
United States of America	331,736	268,301	141,513	224,315
Other	9,672	7,295	84,141	201,607
Totals	1,721,942	1,778,084	1,194,698	1,687,790

The principal exports consisted of copra, £1,086,642; cocoa, £596,262; and bananas, £55,816. At the end of 1952 the Copra Reserve Fund stood at £93,543. This money is available to maintain the price of copra at an economic level if this becomes necessary.

A nine-year contract for the sale of copra produced in the Territory was entered into with the United Kingdom Ministry of Food in 1949. The initial price was £48 10s. sterling per ton, *i.e.*b. Apia. In 1951 this price was increased by 10 per cent to £53 15s. sterling per ton, and for 1952 it was further increased to £65 per ton.

Control of Trade and Finance.—Certain measures in regard to trade and finance were brought into operation in Samoa by the Samoa Import Control Regulations 1944 and the Samoa Finance Emergency Regulations 1944 (now replaced by the Western Samoa Exchange Control Regulations 1948).

These measures were introduced more particularly to ensure the supply of essential goods from exporting countries. There is no impairment of the authority of the local Administration to permit imports from any country from which they may be available. No import licences are issued for any imports save those from hard-currency areas and Japan.

Western Samoa is a member of the sterling pool, to which her hard-currency contributions are made mainly from earnings on the export of cocoa.

Public Finance.—In the years following the establishment of the Mandate Administration in 1920 New Zealand made free gifts for public services amounting to £269,362, and in addition advanced £179,200 by way of loans. No further grants or loans have been necessary since 1931–32, the Territory during that period having been fully self-supporting, but the New Zealand Government has of recent years made grants as set out in the following table.

Subsidy or Grant	1948–49	1949–50	1 April–31 December 1950	1951	1952
	£	£		£	£
Education and cost of overseas scholarships	10,880	24,072		5,748	40,358
Roads	28,915	25,000			
Health		50,000			
Broadcasting	1,289				
Rhinoceros-beetle control		603		312	425
Totals	41,084	99,675		5,748	40,670

In addition to these cash grants the New Zealand Government has provided free educational equipment for Samoan schools. All loan indebtedness has been fully paid off, and there was an accumulated surplus of £751,746 at 31 December 1952, £562,800 of which was invested in New Zealand.

Up to 31 March 1953 a total of approximately £508,000 from the profits of the New Zealand Reparation Estates has been expended or authorized for expenditure on general development in the interests of the Territory of Western Samoa. Projects undertaken by this means include education, health, roofing extensions, rhinoceros-beetle control, scholarships, broadcasting, and residences for the use of New Zealand officers serving in Western Samoa.

The following table shows the total revenue and expenditure for each period quoted. The principal items of expenditure are also shown.

Year Ended 31 March	Revenue	Expenditure					Total (Including "Other")
		Education	Samoa Affairs	Public Health	Public Works		
	£	£	£	£	£	£	£
1948	548,682	39,504	19,681	78,426	138,958		359,285
1949	500,338	46,855	20,555	89,707	165,987		464,520
1950	521,859	70,413	23,889	105,655	129,866		458,095
Nine months ended 31 December 1950	471,087	74,197	16,624	93,667	160,628		444,202
1951 (calendar year)	678,897	113,345	25,470	140,245	166,357		630,147
1952	781,980	110,552		170,983	282,255		811,580

Subsidies from New Zealand for specific purposes shown in the earlier table are not included in the foregoing figures.

The public revenue of the Territory is derived from a combination of direct and indirect taxes. The principal indirect taxes are import and export duties which provide a suitable method of obtaining revenue from a central source at a minimum cost, and are thus well suited to the present stage of development of the Territory. Store tax is a tax on the gross selling price of goods. There are no direct taxes imposed on individual Samoans other than the salary tax on incomes in excess of £00 per annum, payable in cash by individuals after deducting the normal exemptions. Direct taxes generally comprise amusement tax, building tax, trade and business licences, and water rates.

Receipts of revenue from the various sources of taxation for the calendar years 1951 and 1952 were as follows.

	1951	1952
	£	£
Amusement tax	285	320
Arms licences	580	550
Building tax	5,084	5,340
Export duties	162,295	169,230
Import duties	246,553	373,760
Licences and fees	8,038	8,540
Salary tax	6,011	7,980
Stamp duties	2,472	840
Store tax	66,568	85,320
Water rates	1,920	2,670
Vehicle licences	5,860	6,740

There is a Post Office Savings Bank at Apia, and at 31 December 1952 deposits totalled £306,103. During the year deposits at £142,292 were exceeded by withdrawals at £146,410.

TOKELAU ISLANDS: Descriptive.—Situated some three hundred miles to the north of Western Samoa, between 8° and 10° south latitude and between 171° and 173° west longitude, are the three atoll islands of Atafu, Nukunono, and Fakaofu, of the Tokelau (Union) Group. A fourth island (Swain's or Genté Hermosa), belonging to the United States of America and lying 100 miles to the south of Fakaofu, completes the group.

Each atoll is composed of a number of coral islets surrounding a central lagoon. These vary in size from 100 yards to four miles in length, while none is wider than 400 yards nor, with few exceptions, higher than 10 ft. above sea level. The land area of each atoll is approximately as follows: Fakaofu, 650 acres; Atafu, 500 acres; Nukunono, 1,350 acres. The atolls do not lie in close proximity, there being 40 miles of open sea between Fakaofu and Nukunono, and 57 miles between Nukunono and Atafu.

Owing to the absence of humus in the soil, the vegetation is practically restricted to coconut palms, although one islet of each atoll is reserved for growing the tannaive, or taussuu, a short stubby tree, which yields to the Tokelau Islanders their only timber for the construction of canoes, houses, and utensils.

The general isolation of the Tokelau Islands and the limited nature of the economy have combined to produce an extremely simple pattern of living and a stable society in which there is freedom from many social problems. The absence of such complicating factors as divergent economic interests, cultural differences, or racial conflict is conducive towards the maintenance of the present peaceful mode of life and outlook. Village affairs are managed by the Council of Elders, comprising representatives of the families, and this body also exerts some influence over the "aumaga" or village labour force. In this way the traditional form of patriarchal authority has been preserved and regulates Tokelau society, performing a service alongside, and also in addition to, the public duties of government which are carried out by local officials such as the Faipule and the Palenu'u.

Differences between the Tokelau Islanders and the Samoans are also exemplified in other ways, such as food habits, styles of house building, and directness of address in speech. In dancing, an activity inherent in all Polynesian society, the Tokelau Islander differs from the more traditional Samoan forms in that he incorporates syncretism and a larger degree of improvisation, while few other Polynesians make such extensive use of the drum, which is an essential to Tokelau dancing.

Administration.—The first recorded European discovery of the Tokelau Islands was made by Quiros, the Spanish Navigator, who in 1696 made a landfall at Olosega. In 1765 Atafu was discovered by Commodore Byron, R.N., and the islands were included under the protection of Great Britain in 1877. In 1916 the islands, at the request of the inhabitants, were formally annexed to Great Britain by an Order in Council, which also extended the boundaries of the Gilbert and Ellice Islands Colony to include the Tokelau Group (then known as the Union Islands) and their dependencies. The group was governed by the High Commissioner for the Western Pacific and administered by the District Officer at Funafuti, in the Ellice Group. In 1925 the New Zealand Government, at the request of the British Government, agreed to administer the islands. By Order in Council the group was disannexed from the Gilbert and Ellice Islands Colony, and by a further Order in Council in the same year the Governor-General in Council of New Zealand was empowered to make laws for its peace, order, and good government, and authorized to delegate from time to time to the Administrator of Western Samoa so much of this power as might be considered desirable. The right was reserved to the Governor-General in Council to disallow any laws passed under this delegated power and to make any restriction deemed proper. The vesting of administrative powers in the Administrator of Western Samoa (now the High Commissioner) in 1926 was a matter of convenience, the Tokelau Group having no political connection with the Territory of Western Samoa.

The Tokelau Nomenclature Ordinance 1946 officially fixed the name of the group, hitherto sometimes referred to as the Union Islands, as the Tokelau Islands or the Tokelau Islands Dependency.

By the Tokelau Islands Act 1948 the Tokelau Group was included within the territorial boundaries of New Zealand; legislative powers are now vested in the Governor-General in Council, while executive powers remain with the High Commissioner of Western Samoa. The inhabitants of the Tokelau Islands are British subjects and New Zealand citizens.

There are no local European officials in the Tokelau Islands. The group is administered through the Department of Samoan Affairs in Samoa. The following is the staff establishment of officials for each of the three atolls:

Faipule and Magistrate (Fa'amasino).
Palenu'u (Mayor of village).
Fa'ailuasi (clerk and postal officer).
Wireless Operator.
Chief of Police.
Police.
Wardress.
Assistant Medical Practitioner.
Tokelau Nurse.
Dresser.

Population.—The people, though closely allied to the Samoans, have not such a fine physique. Inter-marriage with Gilbert and other Islanders has probably lessened the strain of pure Polynesian blood to a greater extent than in the case of the Samoans.

On 25 September 1951 a census showed a total population of 1,580, including 9 Europeans, seven of whom were members of the visiting official party. The indigenous population was as follows.

Island	Males	Females	Total
Fakaofu	302	360	662
Atafu	226	226	452
Nukunono	199	258	457
Totals	727	844	1,571

At the time of the census 183 Tokelau Islanders were in Western Samoa.

The previous census, carried out in September 1945, showed a total of 1,388 persons in the Tokelau Group. The population at 31 March 1953 was estimated at 1,671.

On Atafu all the inhabitants are members of the London Missionary Society, and on Nukunono all are adherents of the Roman Catholic Mission. On Fakaofu the greater number adhere to the London Missionary Society. Both missions—the Roman Catholic and the London Missionary Society—have their headquarters in Samoa, from which the work in the Tokelau Islands is administered. Since December 1946 there has been a Catholic priest in residence at Nukunono. A Roman Catholic sister arrived in Nukunono in 1948 and established a convent school. They are the only Europeans domiciled in the islands.

Health.—Health services in the Tokelau Islands are organized and supervised from Apia, from where also the supplies are drawn. The incidence of disease in the islands is slight. There has been no cases of smallpox, leprosy, plague, or cholera, and yellow fever is unknown. The only mosquito identified in the islands is the *Aedes pseudoscutellaris*, and filariasis is present, carried by this mosquito. There is no malaria. Recent surveys reveal a microfilaria of about 10 per cent, most of the carriers having resided either in Samoa or some other endemic zone for at least some months. No cases of syphilis have been reported. Yaws is common among the children, but the disease, however, is quickly reduced by appropriate therapy.

A Samoan medical practitioner is stationed in the group, and he moves from island to island at approximately three-monthly intervals. Other medical staff consists of staff nurses, nurses, and dressers, who obtain their training at Apia hospital in Western Samoa. In addition each atoll has an active Women's Committee, and to these committees much credit is due for their work in village health and sanitation.

Fresh water is not plentiful, and tanks and catchment areas have been erected on each island.

Education.—At the end of 1950 the decision was made that four trained Samoan teachers should proceed to the islands to open Government schools. These teachers and their equipment arrived early in 1951, two being posted to Atafu and two to Fakaofu. Upon arrival they reorganized and regraded the mission schools, but owing to the large roll numbers it was necessary to retain the services of the missionaries and others who had received education in Western Samoa. All the necessary school equipment, stationary, and textbooks are supplied by the New Zealand Government; the schools also receive copies of the Samoan *Teachers' Monthly Guide* and of Samoan and New Zealand *School Journals*. In addition, they are equipped with film-strip projectors and also with radio sets so that the daily educational broadcasts of the Western Samoan Education Department may be utilized. The mission school on Nukunono is equipped by the New Zealand Government in a similar fashion to the schools of the other islands.

The rolls of the four schools in December 1952 were as follows: Fakaofu, 181; Atafu, 130; Nukunono, 152. In addition, a number of Tokelau children attend Government and mission schools in Western Samoa.

Communications.—Visits to the islands are made at approximately three-monthly intervals by aircraft of the Royal New Zealand Air Force stationed at Laucala Bay, Fiji. Trading visits are made at fairly regular intervals by a vessel chartered by the New Zealand Reparation Estates, Western Samoa. Inter-island communications are carried out by the visiting aircraft and trading vessels, canoe journeys between the islands being discouraged. The Catholic Mission at Nukunono has a launch in which occasional visits are made to Fakaofu, and which aids inter-island communication in general.

Radio-telegraph receivers and transmitters are operated on each atoll, being housed in small radio-telegraph station buildings. In addition, receiving sets are installed in all villages and enable the people to listen to broadcasts from the Apia broadcasting station.

Trade and Finance.—Prior to the Second World War trading operations were carried out by merchants operating from Western Samoa. During the war the trading vessels were withdrawn, and the Administration undertook the purchase of copra and the sale of goods. At the conclusion of hostilities the Administration offered to return the trade to private firms, but they were not prepared to resume operations, and it has since been undertaken by the New Zealand Reparation Estates. The quantity of copra shipped for the year ended 31 March 1953 amounted to 114 tons. Apart from copra the only exports are handicrafts.

Revenue is derived principally from export duty on copra. Customs duty of 12½ per cent *ad valorem* on all goods entering the islands, trading profits, and the sale of postage stamps. Provisional figures show that revenue for year 1952–53 was £2,691 and expenditure £5,174.

Under the Tokelau Islands Copra Regulations 1952 a Copra Stabilization Fund has been established to be built up by a levy on purchases of copra for export, and is to be used to supplement the prices received by the producers, or by the purchasers on resale after export, as may be necessary from time to time. At 31 March 1953 there was £1,756 in the fund.

THE CHATHAM ISLANDS.—The Chatham Islands, which are composed of one main island, three small islands, and numerous reefs and islets within a radius of thirty miles, lie 467 nautical miles east of Lyttelton, and have an area of 373 square miles. There are approximately 500 people on the islands, which are part of New Zealand proper, being attached to the Lyttelton Electorate for Europeans and to the Western Maori Electorate for Maori electors.

The islands were constituted a county in 1901, but the first Council was not elected until 1925. The Council obtains its revenue not from rates, but from import and export duties. The total revenue of the County Council for 1952–53 amounted to £9,290.

There is a cottage hospital at Waitangi, the main settlement and port of entry, and schools at Te Kairakau, Te Ore, Owenga, and Kaingaroa.

The islands' major industry is sheep farming, there being no dairy farming. Some cattle are exported, but the islands' greatest source of revenue comes from the export of sheep and wool. For the year ended 31 March 1953, 2,895 bales of wool, 26,293 sheep, and 406 tons of fish were exported. Imports amounted to 1,257 tons.

Approximately six trips per annum are made to the Chatham Islands by T.E.A.L. flying boat, while an irregular shipping service is maintained for the greater part of the year. Internal communications are not good, roadwork being made difficult and expensive by the extensive peat swamps. There are five party-telephone lines on the island. Isolated shipping stations maintain contact with the radio station at Waitangi by means of radio-telephones. A radio-telephone service was established with New Zealand early in 1953.

THE ROSS DEPENDENCY.—By Imperial Order in Council of 30 July 1923 the coasts of the Ross Sea, with the adjacent islands and territories between the 160th degree of east longitude and the 150th degree of west longitude, and south of the 60th degree of south latitude, were proclaimed a British settlement within the meaning of the British Settlements Act 1887, under the name of the Ross Dependency, and the dependency was placed under the jurisdiction of the Governor-General of New Zealand.

It is estimated that the mainland area is about 175,000 square miles; but, being completely ice-covered, it is uninhabited. On various occasions bases have been established on the mainland by Antarctic expeditions, which have made extensive explorations within the territory and on contiguous portions of the continent. As yet no economic wealth has been won from the mainland, but the territorial waters, with their large numbers of whales, have been the scene of operations for numerous factory whaling ships. There has been, however, no New Zealand capital invested in these enterprises.

An article on the Ross Dependency, written by Mr M. J. S. Nestor, appeared in the 1938 number of the Year-Book (pages 900–903).

Whaling.—Regulations dated 24 October 1929, which superseded those of 1 November 1926, prohibit whaling operations within the boundaries of the Ross Dependency without a licence, for which the annual fee payable is £200, and in addition to which the Government requires a royalty of 2s. 6d. per barrel (40 gallons) of whale oil. The owner or master of a vessel engaged in whaling or used as a floating whale factory is liable to a fine not exceeding £1,000 for each day on which operations are carried on without a licence. A penalty not exceeding £100 per day is provided for in cases of non-compliance with the terms of the licence granted in respect of any vessel used for whaling or as a floating factory, and a similar penalty for failure to equip a floating factory in accordance with the requirements of the regulations, or for failure to convert a whale into commercial products within forty-eight hours after delivery at the factory. Provision is made for the arrest on warrant of any vessel in respect of which an offence against the regulations is committed.

The regulations apply, of course, only to territorial waters, and operations are carried on outside territorial waters by unlicensed expeditions. The great majority of whales are taken outside territorial waters.

The Whaling Industry Act 1935 gives legislative effect, so far as New Zealand is concerned, to the International Whaling Convention signed at Geneva in 1931. The general principles of the Convention are in the direction of conservation of whales and regulation of the industry.

An international agreement signed in June 1937 embodied further provisions for the regulation of the whaling industry, and from time to time supplementary protocols determine the conditions in accordance with which whaling will be conducted.

NAURU.—Nauru Island is barely one-third of a degree below the equator and lies 166° 56' east of Greenwich. It is an elevated island about three and a half miles long and two and a half miles wide, with a circumference of twelve miles, and an area of 3,260 acres. With the exception of a narrow coastal belt favourable for the growth of coconuts, and of a brackish lagoon, the island consists of phosphate deposits overlying a bed of coralliferous limestone. The island is completely surrounded by a coral reef, and beyond the reef the sea bed slopes sharply downwards at an angle of 45°. These two factors, together with the presence of the strong equatorial current of two knots, materially affect the shipping facilities of the island. The fact that the island lies in the latitude of the easterly trade winds, which blow from nine to ten months of the year, is also significant, since it explains the comparative absence of rainfall, a condition necessary for the existence of phosphate deposits. Prior to its forcible occupation by Japan on or about 26 August 1942, the island of Nauru was administered under a mandate, dated 17 December 1920, conferred upon His Britannic Majesty and approved by the League of Nations. This mandate was held jointly by the Governments of Australia, Great Britain, and New Zealand, and by a mutual agreement the Administration was in practice left to the Australian Government. On 13 September 1945 the Japanese garrison on the island surrendered, and civil administration was re-established on 1 November 1945. In January 1946 the Australian Prime Minister announced that, with the concurrence of the Governments of the United Kingdom and New Zealand, Australia would negotiate a trusteeship agreement with a view to bringing the mandated territory of Nauru under the International Trusteeship System. This agreement was approved by the General Assembly of the United Nations on 1 November 1947.

In 1951 an ordinance provided for the abolition of the Nauruan Council of Chiefs, a body established by custom, and the creation of a Nauruan Local Government Council. The latter Council is composed of nine Nauruans elected by all Nauruans, male or female, who are over twenty-one years of age. Voting is by secret ballot, and a preferential system of voting is employed. The Council is an advisory body which, subject to the Administrator's approval, may make rules covering certain specified subjects.

Financial figures quoted hereunder are in Australian currency.

The mining rights are vested in the British Phosphate Commission, subject to the rights of the Nauruan landowners, and the deposits, as well as those on Ocean Island, about 165 miles to the east of Nauru, are worked by the Commission. As from 1 July 1950 the rate of royalty payable to the Administration on phosphate shipments was increased from 6d. to 1s. per ton, and royalty payable to or on behalf of Nauruans increased from 1s. 1d. to 1s. 4d. per ton, representing a total amount of £123,876 for 1952.

The deposits do not appear to be simple guano, and some authorities consider them to be of a marine sedimentary origin raised from the sea bed and subjected to weathering. From the point of view of phosphate manufacture the deposits are of a very high grade, exports averaging 85.4 per cent trioxide phosphate and 3.4 per cent calcium carbonate. Owing to the uneven nature of the outcrops of coralliferous limestone the extent of the deposits cannot be measured accurately, but it is estimated that there are between sixty-five and seventy million tons of phosphate rock available.

Of the 1,061,797 tons of phosphate exported in 1952 Australia received 592,675 tons and New Zealand 469,122 tons.

The following table shows the population of Nauru for the years 1948–52.

Year	Chinese	Europeans	Other Pacific Islanders	Total Non-Indigenes	Indigenous	Total
1948	1,370	247	97	1,714	1,448	3,162
1949	1,440	247	88	1,745	1,524	3,269
1950	1,491	278	81	1,850	1,582	3,432
1951	1,411	274	131	1,816	1,618	3,434
1952	759	253	560	1,572	1,672	3,244

Revenue and expenditure and trade of the Nauru Administration since 1948–49 are given in the following table.

Year	Revenue	Expenditure	Exports	Imports
	£	£	£	£
1948–49	34,204	105,673	1,174,287	527,104
1949–50	42,103	68,568	1,589,594	646,155
1950–51	85,019	130,491	1,378,579	720,752
1951–52	90,414	146,742	1,725,420	544,001

Imports consist almost entirely of food supplies and of machinery for the working of the phosphate deposits.

Chapter 44. SECTION 44—MISCELLANEOUS

Table of Contents

PUBLIC TRUST OFFICE.—In the early years of settlement in New Zealand those who wished to make provision for the administration of their estates on their deaths often experienced difficulty in selecting a suitable person competent and willing to act as trustee. That difficulty was natural in a new country where the colonists were fully occupied with their own affairs, and were unable to give to the property or business of another the close attention that was demanded. Even if an otherwise suitable trustee could be found, his solvency—an essential element in a trustee—might be in doubt, particularly when the value of colonial property fluctuated considerably and the financial position of an individual could quickly change for the worse. Again, changes of residence were frequent, and the trustee appointed might have left the colony or have moved to another part of it just at the time when his presence and services were most required.

In these circumstances the Public Trust Office was established in 1872 (it is now constituted under the Public Trust Office Act 1908), under the administration of the Public Trustee, who was constituted a corporation sole with perpetual succession and a seal of office. The main purpose of the original Act was to provide a means of overcoming the difficulties that have been mentioned and to make available to the public a trustworthy administration of the estates of deceased persons at a minimum cost, the integrity of the Public Trustee and his officers being guaranteed by the State. That continues to be the chief function of the Office, but since its establishment the range of service has been very considerably extended and the Public Trustee now acts in many diverse capacities—e.g., as administrator in intestate estates; executor and trustee under wills; trustee under marriage and other settlements; trustee of benefit or relief funds; agent or attorney for absentees or persons desiring to be relieved of business worries; sinking fund commissioner for local authorities; administrator of unclaimed lands and property; statutory administrator of the estates of mental patients (other than Maori) where no committee of the estate has been appointed by the Court; manager (when so appointed) by the Court of the estates of aged and infirm persons unable to administer their own affairs; administrator of composition moneys payable in respect of the death of a worker (unless the Court orders otherwise); statutory administrator of the estates of all convicts (other than Maori); and agent for the investment of certain moneys of the National Provident Fund and the administration of mortgage investments forming part of the Government Superannuation Fund. The wills of persons desiring the Public Trustee to act as their executor are prepared and held in safe custody by him, free of charge.

In lieu of obtaining probate or other grant of administration, the Public Trustee may file in an office of the Supreme Court an election by him to administer an estate (testate or intestate) if the gross value of the property in New Zealand is estimated not to exceed £1,000. If after the filing of the election the value of the property is found to exceed £1,500, the Public Trustee must obtain a grant of probate or administration in the ordinary way. This authority in many instances obviates the necessity for obtaining a grant of probate or administration, thus facilitating the administration of the estate and effecting a reduction in costs.

The experiment of establishing the Public Trust Office—one of the earliest examples of a State service—has proved an unqualified success and a striking testimony to the foresight of the Hon. E. C. J. Stevens, who first suggested the appointment of a Public Trustee, and Sir Julius Vogel, who was largely responsible for legislative effect being given to the proposal. Ample evidence of this is to be found in the fact that 17,809 estates and funds of a total value of £58,242,100 were under the Public Trustee's administration at 31 March 1953, as compared with only the 257 estates, of a total value of £17,500, under administration in 1873. The beneficial results achieved did not pass unnoticed outside New Zealand and led to the establishment of similar offices in England and other parts of the British Commonwealth.

The progress that has been made in the present century is illustrated by the following table.

Year Ended 31 March	Estates and Funds Under Administration		Wills of Living Persons on Deposit
	Number	Value	
		£	No.
1900	2,667	2,192,594	675
1920	14,679	20,860,686	25,792
1930	18,549	53,049,437	68,253
1940	19,468	62,622,175	97,675
1950	18,313	58,646,288	146,288
1952	17,903	55,853,846	153,369
1953	17,809	58,242,100	157,678

The decrease since 1940 in the number of estates under administration is accounted for by the winding-up of numerous estates, a result of favourable market conditions.

The decrease in the value of estates and funds under administration since 1940 is mainly due to the withdrawal of Government securities totalling over £8,000,000 held by the Public Trustee on behalf of the Public Debt Redemption Fund for application in reduction of the public debt, and of the transfer to the National Provident Fund of Government securities for more than £8,000,000 previously held by the Public Trustee on behalf of that fund.

The following is a classification of the estates and funds which came under administration during the year ended 31 March 1953, and of all estates and funds under administration at that date.

—	New Estates and Funds During 1952–53	Estates and Funds Under Administration at 31 March 1953
---	--------------------------------------	---

—	New Estates and Funds During 1952–53		Estates and Funds Under Administration at 31 March 1953	
	Number	Value	Number	Value
		£		£
Wills estates	2,191	5,923,430	7,737	26,218,579
Trusts and agencies	263	972,753	2,376	9,698,692
Intestate estates	573	500,649	1,635	1,193,927
Mental patients' estates	760	1,453,831	3,657	5,421,984
Miscellaneous estates and funds	150	1,268,536	2,404	15,708,918
Totals	3,937	10,118,199	17,809	58,242,100

Capital moneys becoming available for investment either form part of the Common Fund of the Office or, at the option of the testator or settlor, are invested in such securities as he may specify. Interest is allowed on moneys in the Common Fund at the rate fixed from time to time by the Governor-General in Council (at present 3¼ per cent) and is free of all commission and other charges. Both capital and interest are guaranteed by the State, thus affording the complete security that it is the object of the Office to provide. On the other hand, moneys directed to be invested in specified securities do not carry the State guarantee and, subject to the Public Trustee's ordinary liability as a trustee, any loss resulting from their investment falls upon the estate concerned. Commission is charged on the collection of the interest. Recognizing that the safety of the moneys is thereby assured, the great majority of testators and settlors desire their funds to be placed in the Common Fund.

New investments completed during the year ended 31 March 1953 totalled £2,194,000, the favourable terms offered by the Office again proving popular with borrowers. The investments held by the Office at 31 March 1953, inclusive of those held on behalf of certain estates and funds whose moneys are required to be specially invested, totalled £25,829,338, an increase of £467,792 on the corresponding figure at 31 March 1952.

The foregoing figures relate exclusively to investments made by the Office, and do not include investments which constituted assets of estates when the latter came under the Public Trustee's administration and which are still held as assets of those estates.

During the year ended 31 March 1953, 8,514 wills were deposited with the Public Trustee. The number of wills on deposit at 31 March 1930 appointing the Public Trustee executor was 68,253; by 31 March 1940 it had increased to 97,675; later increases brought the number to 157,678 at 31 March 1953. In addition to preparing the will of the testator in the first instance, the Office prepares any subsequent will or codicil that may be necessary to give effect to alterations desired by him. During the year ended 31 March 1953 effect was given in 7,200 cases to changes desired by testators.

BANKRUPTCY.—The law relating to bankruptcy in New Zealand is contained in the main in the Bankruptcy Act 1908 (which is a consolidation of previous enactments) and its amendments. Jurisdiction in bankruptcy matters is vested in the Supreme Court. The Governor-General, however, may by Proclamation confer similar jurisdiction on a Magistrate's Court in cases where the liabilities do not exceed £300.

All proceedings in bankruptcy are commenced by a petition filed in the Court. A petition may be filed either by the debtor or by a creditor, a fee of £6 being payable. The filing of a debtor's petition is equivalent to an order of the Court adjudging the debtor a bankrupt, no order being required in this case. Not less than £30 in the aggregate must be owing by the debtor to the creditor or creditors filing a petition.

Section 7 of the Statutes Amendment Act 1947 increased the value of furniture which a bankrupt may select and retain from £50 to £100.

Immediately on a debtor's petition being filed or adjudication being made on a creditor's petition, the Registrar of the Court gives notice to the Official Assignee in Bankruptcy, in whom all the property of the bankrupt thereupon vests. The bankrupt must hand over his books of account, papers, deeds, etc., to the Official Assignee, and furnish such information as is necessary to enable the Assignee to administer the estate to the best advantage. The bankrupt may also be required to produce statements of accounts, balance-sheets, etc., covering the period of three years immediately prior to the commencement of his bankruptcy, give inventories of his property and debts, and generally assist in the realization of his property. The Assignee may summon the bankrupt before himself, or before a Magistrate, to be examined on oath. The Bankruptcy Amendment Act 1927 forbids (save with the consent of the Court, on the application of the Official Assignee) the publication of a report of any examination of a bankrupt before the Assignee or of any matter arising in the course of such an examination.

The Official Assignee is empowered to sell the bankrupt's property, to claim debts due to the bankrupt estate, to carry on the business of the bankrupt so far as is necessary or expedient for its beneficial winding-up, or to divide the property among the creditors. The bankrupt may be appointed by the Official Assignee to manage his estate or carry on his business on behalf of the creditors.

Creditors may accept a composition in satisfaction of the debts due to them. In such a case, after approval of the Court, a deed of composition is executed and filed, and the bankruptcy annulled.

On application being made by the bankrupt, the Court is empowered to grant him an order of discharge, either absolute, suspended, or conditional. The application, which must be made within four months after adjudication, may be opposed either by the Official Assignee or by any creditor who has proved his claim. A public examination of the bankrupt may be demanded by the Assignee or by a creditor.

Undischarged Bankrupts.—Section 14 of the Bankruptcy Amendment Act 1927 requires the annual compilation of a list showing the names, occupations, and other particulars of all persons who have been adjudged bankrupt since 31 March 1927, and who have not obtained an order of discharge, or whose order of discharge is suspended for a term, or is subject to conditions remaining unfulfilled. Section 9 of the Statutes Amendment Act 1936 provides that the Minister of Justice may from time to time publish the list, or so much of it as relates to adjudications within any specified period ending on the date of the compilation of the list.

Transactions in Bankruptcy.—The number of transactions in bankruptcy during the last five years is given below. A long-term record of the more important features will be found in the Statistical Summary given later in this volume.

Year	Number of Bankruptcies	Petitions by Debtors	Adjudications on Petitions by Creditors	Cases in Which Composition Accepted	Orders of Immediate Discharge Granted	Cases in Which Orders of Discharge Were Suspended
1949	179	144	144	35	1	4
1950	142	109	109	33	2	10
1951	145	123	123	23	1	4
1952	168	107	61	61	—	7
1953	215	174	41	—	—	9

In the case of a partnership, not only the partnership but each partner is counted in the total of transactions.

During the later war and immediate post-war years the number of bankruptcies was exceptionally low, extremely buoyant business conditions prevailing throughout this period. Since 1947 there has been a marked upward trend, although the numbers in recent years are still well below the average of the period 1920–40.

The general bankruptcy statistics do not cover private assignments and compositions, but relate only to cases dealt with by Official Assignees. Certain statistics of private assignments are available, and details of these appear on page 1041.

Assets and Liabilities.—Debtors are required to file a statement of the extent of their liabilities and assets, but there is usually a marked difference between these statements and the amounts actually realized by the Official Assignee or the debts subsequently proved by creditors.

It should be understood that in the following table the figures in each column refer to all transactions under the respective heads during the year, the amounts realized by Assignees and paid in dividends and preferential claims relating partly to the current year's bankruptcies (many of which, however, are not disposed of during the year) and partly to cases commenced in previous years.

Year	Number of Bankruptcies	Debtors' Statements of Assets, Excluding Amounts Secured to Creditors	Amounts Realized by Official Assignees	Amount of Debts Proved	Amounts Paid in Dividends and Preferential Claims
		£	£	£	£
1943	45	6,148	18,883	20,052	13,136
1944	51	13,209	13,466	51,035	16,741
1945	45	9,960	18,530	118,216	10,941
1946	53	10,463	20,842	48,806	14,328
1947	74	21,433	15,528	44,731	12,386
1948	148	56,229	50,280	143,282	24,945
1949	179	53,015	38,410	203,173	20,114
1950	142	29,315	49,252	125,917	36,660
1951	145	115,760	48,269	136,822	38,044
1952	168	76,255	56,241	251,129	24,127
1953	215	140,255	72,162	381,016	43,468

* Including 1 deceased person's estate under Part IV of the Administration Act 1908.

The table following shows for each of the last eleven years the average amount of debts proved per estate, and also the proportion of dividends to debts.

Year	Average Debts Proved Per Estate	Proportion of Dividends to Debts
	£	Per Cent
1943	446	65.51

Year	Average Debts Proved Per Estate	Proportion of Dividends to Debts
1944	1,001	32.80
1945	2,627	8.49
1946	933	29.53
1947	604	27.69
1948	968	17.41
1949	1,135	9.90
1950	887	27.14
1951	944	26.19
1952	1,495	9.16
1953	1,772	10.23

The total payments made in 1951, 1952, and 1953 from assets realized were—

	1951	1952	1953
	£	£	£
Dividends to creditors (excluding preferential and secured claims)	35,823	23,002	38,975
Preferential claims (rents, wages, &c.)	2,221	1,124	4,493
Secured claims	8,853	4,926	3,448
Government commission	3,916	3,322	4,597
Cost of actions, solicitors' and supervisors' fees	1,588	1,338	951
Expenses incurred in carrying on estates	330	2,644	1,007
Other charges	2,221	2,094	5,531
Totals	£54,952	£38,450	£59,002

Balances in banks to the credit of estates aggregated £53,710 on 31 December 1953, compared with £41,356 at the end of the previous year.

Amount of Liabilities.—The following table shows for each of the last five years a classification of bankruptcies according to the amount of liabilities.

Liabilities	1949	1950	1951	1952	1953
Under £50	3	1	5	2	3
£50 and under £100	4	2	11	8	5
£100 and under £250	31	28	24	32	31
£250 and under £500	46	28	34	34	45
£500 and under £1,000	38	35	22	37	48
£1,000 and under £2,000	33	29	29	24	36
£2,000 £5,000	12	16	13	22	36
£5,000 and over	12	3	6	8	10
Totals	179	142	144*	167*	214*

* Total excludes 1 partnership. The liabilities for each partner are included, but not the partnership.

The majority of failures are for comparatively small amounts. Of a total of 846 bankruptcies over the period quoted 5 per cent were for amounts of less than £100, 22 per cent for amounts of less than £250, and 45 per cent for amounts of less than £500. In 66 per cent of the total number, the amount of liabilities was less than £1,000.

Occupations of Bankrupts.—The following table shows in broad groups the occupations of those adjudged bankrupt in the last five years.

	1949	1950	1951	1952	1953
Fishing and trapping	2	2	1	2	2
Agricultural and pastoral	24	4	10	13	10
Fishery	7	6	2	—	4
Processes relating to—					
Stone, clay, cement, glass, etc.	1	—	—	—	—
Chemicals, animal and vegetable products, n.a.i.	—	—	1	—	—
Metals, machines, tools, electric fittings, conveyances, jewellery, etc.	12	16	10	14	19
Fibrous materials, textiles, and dress	1	3	2	5	2
Harness, saddlery and leatherware	1	—	1	—	1
Food, drink, and tobacco	2	3	4	—	6
Wood, basketware, furniture, etc.	1	2	1	—	2
Paper, stationery, printing, photography	—	2	1	1	4
Other materials	2	1	—	—	1
Construction or repair of buildings, roads, and railways	34	36	33	36	31
Transport and communication	16	15	20	17	38
Ships, boats, etc.	2	3	2	—	—
Commerce and finance	45	21	20	31	29
Public administration, clerical, and professional	2	6	6	2	4
Entertainment, sport, and recreation	2	2	2	2	1
Personal and domestic service	13	6	8	16	7
Indefinite occupations—					
Labourer	8	6	6	11	24
Other	4	8	14	16	30
Totals	179	142	144*	167*	214*

* Excludes 1 partnership. The occupation of each partner is included, but not the partnership.

The occupational status of persons adjudged bankrupt during each of the calendar years 1943–53 is given in the following table.

Year	Occupational Status			Totals	
	Working for Salary or Wages	Employer of Labour	Working on Own Account But Not Employing Labour		
1943	21	9	—	15	45
1944	26	10	—	14	51*
1945	22	5	—	18	45
1946	16	17	—	19	52
1947	27	18	—	29	74
1948	48	36	—	64	148
1949	52	34	—	93	179

* Excludes 1 partnership. The occupation of each partner is included, but not the partnership.

Year	Occupational Status			Totals	
	Working for Salary or Wages	Employer of Labour	Working on Own Account But Not Employing Labour		
1950	44	43	—	55	142
1951	61	26	—	57	144*
1952	64	40	—	63	167*
1953	91	34	—	89	214*

* Excludes 1 partnership. The occupation of each partner is included, but not the partnership.

Private Assignments.—Official bankruptcies, as explained earlier, do not comprise all financial failures and the bankruptcy statistics have been supplemented since 1928 by the collection of data relating to private assignments. The statistics cover all operations arising out of deeds of assignment made under section 167 (2) of the Stamp Duties Act 1923.

Amount of Liabilities.—The following table classifies estates assigned during the last five years available according to the amount of liabilities.

Liabilities	1948	1949	1950	1951	1952
Under £250	—	—	1	—	—
£250 and under £500	2	1	—	—	1
£500 and under £1,000	3	2	1	2	2
£1,000 and under £2,000	6	5	8	1	1
£2,000 and under £5,000	7	5	8	6	6
£5,000 and over	6	3	1	3	2
Unspecified	3	6	1	—	1
Totals	27	23	19	12	13*

* Includes 1 estate in which the assignor was subsequently adjudged bankrupt.

The amounts of liabilities involved are relatively much higher for private assignments than for bankruptcies. For the five years 1948–52, 77 per cent of privately assigned estates had liabilities of £1,000 and over. For bankruptcies, only 33 per cent of the total number fell into this category.

Occupations of Assignors.—The occupations of assignors in broad industrial classes during the last five years available were as follows.

	1948	1949	1950	1951	1952
Agricultural and pastoral	2	2	—	1	—
Forestry	—	—	—	—	1
Processes relating to—					
Stone, clay, lime, cement, etc.	1	—	—	—	—
Fibrous materials, textiles, etc.	—	—	—	—	—
Clothing, dress, etc.	—	—	—	1	—
Leatherware, harness, saddlery, etc.	1	—	—	—	—
Wood, basketware, furniture, etc.	1	—	—	—	—
Food, drink, and tobacco	—	—	2	—	—
Construction or repair of buildings, roads, etc.	13	8	7	5	2
Transport and communication	—	1	2	2	—
Commerce and finance	7	4	5	2	—
Public administration, clerical, and professional	—	2	2	—	1
Entertainment, sport, and recreation	1	—	—	—	—
Personal and domestic service	1	6	1	—	—
Indefinite occupations	—	6	—	—	1
Totals	27	23	19	12	13*

* Includes 1 estate in which the assignor was subsequently adjudged bankrupt.

Of the 1952 total, 9 were employers of labour and 4 were working on own account.

Provisional figures for 1953 show the number of private assignments as 24. Data relating to private assignments are normally collected much later than corresponding figures for bankruptcies, as a longer period is necessary for settlement of the financial arrangements in the former case.

CINEMATOGRAPH THEATRES.—The statistics of cinematograph theatres shown hereunder relate only to picture theatres, and do not purport to show employees, revenue, and expenditure of the motion-picture industry as a whole. In particular, the full revenue and expenditure in connection with screen advertising, and also head office expenses of controlling companies (including such items as interest on debentures and mortgage charges), unless recovered from exhibitors, are not recorded in the statistics. The item "Rent" under "Theatre expenditure" does not represent the rental value of all theatres, but only the rent paid where theatres were leased or rented.

The collection of statistics relating to cinematograph theatres was inaugurated in 1938–39 and continued annually until 1945–46; thereafter the frequency of collection is every alternate year. The principal data for the last three years available are given below.

	1947–48	1949–50	1951–52
Theatres (number)	570	600	589
Persons engaged—			
Males (number)	1,491	1,416	1,479
Females (number)	1,782	1,699	1,781
Totals (number)	3,273	3,115	3,260
Salaries and wages paid—			
To males (£)	348,128	379,898	444,429
To females (£)	217,044	242,943	288,213
Totals (£)	565,172	622,841	732,642
Seating-accommodation—			
Seats at under 1s. 6d.* (number)	53,416	48,000	5,410
Seats at 1s. 6d.* (number)	156,177	159,463	114,790
Seats at 2s.* (number)	47,249	50,446	86,272
Seats at over 2s.* (number)	13,918	14,586	59,741
Total seats available (number)	270,760	272,495	266,213
Paid admissions during year (number)	34,078,349	36,353,171	36,341,969
Theatre revenue—			
Admission receipts† (£)	2,634,730	2,789,696	3,131,550

* Adult admission charges (excluding amusement tax).

† Including amusement tax.

‡ I.e., shop rentals and rents received in respect of cinematograph theatres let for other purposes.

§ Representing rent paid; not including rental value of freehold premises.

¶ See explanatory letterpress given earlier.

	1947-48	1949-50	1951-52
Screen advertising (£)	96,038	111,373	83,204
Rentals ¹ and other receipts (£)	78,258	117,863	171,599
Total theatre revenue ¹ (£)	2,809,026	3,018,932	3,386,553
Theatre expenditure—			
Salaries and wages (£)	565,172	622,841	732,642
Film-hire (£)	759,354	768,185	826,930
Freight (£)	42,524	47,110	46,215
Advertising (£)	176,396	194,312	214,182
Amusement tax (£)	123,034	135,684	205,467
Rent ² (£)	315,588	291,826	306,118
Repairs and maintenance (£)	155,212	142,590	122,905
Depreciation (£)	48,640	73,800	78,695
Other expenses (£)	279,451	341,223	377,580
Total theatre expenditure ² (£)	2,465,371	2,617,571	2,910,734

¹ Adult admission charges (excluding amusement tax).

² Including amusement tax.

³ I.e., shop rentals and rents received in respect of cinematograph theatres let for other purposes.

⁴ Representing rent paid; not including rental value of freehold premises.

⁵ See explanatory letterpress given earlier.

As a result of a Price Tribunal decision in October 1951 admission increases were granted to all theatres, and these increases are reflected in the average admission charge recorded for the year 1951-52. At 20.7d. it represents an increase of 12.5 per cent over the average figure for 1949-50.

It will be noted that although paid admissions to theatres remain steady, the average annual attendance per head of population has fallen from 19.2 to 18.6.

An analysis of theatre revenue in 1951-52 shows that admission charges amounted to 92.5 per cent of the total, screen advertising to 2.4 per cent, and other revenue to 5.1 per cent. The chief items on the expenditure side were as follows: film hire, 28.4 per cent; salaries and wages, 25.2 per cent; theatre rent, 10.5 per cent; advertising, 7.3 per cent; repairs and maintenance, 4.2 per cent. Amusement tax at £205,467 represented 7.1 per cent.

Disregarding differences in admission prices for adults and children and for evening and matinee performances, the average price of admission has been calculated by dividing total admission receipts by the total number of paid admissions. The average admission charge works out at 20.7d., ranging from 18.2d. in the Westland Provincial District to 21.8d. in Canterbury. The average charge in 1949-50 was 18.4d.

The next table shows a classification of theatres, according to number of screening days per week, and of circuit operators for the 1951-52 year.

Screening	Theatres		Persons Engaged		Salaries and Wages		Seating Accommodation		Paid Admissions		Average Admission Charge ¹	
	No.	No.	£	£	No. of Seats	(000)	d.					
Six days per week	198	2,392	618,240	165,117	30,567	21.4						
Odd days per week	250	743	91,777	73,523	4,563	17.1						
Circuit	141	125	22,625	27,573	1,212	16.9						
Totals	589	3,260	732,642	266,213	36,342	20.7						

¹ Including amusement tax.

A classification of theatre revenue and expenditure on a similar basis is now given.

Screening	Theatre Revenue				Theatre Expenditure ¹	
	Admission Receipts ²	Screen Advertising	Other	Total	£	£
Six days per week	2,720,159	64,906	150,777	2,935,842	2,502,553	
Odd days per week	325,940	13,777	17,819	357,536	323,934	
Circuit	85,451	4,521	3,003	92,975	84,247	
Totals	3,131,550	83,204	171,599	3,386,353	2,910,734	

¹ Including amusement tax.

The 36 circuit or itinerant operators in 1951-52 screened in 141 theatres or halls.

PATENTS, DESIGNS, AND TRADE MARKS.—The total number of applications for the grant of letters patent and for the registration of designs and trade marks during the calendar year 1952 was 3,519, which was 132 less than the previous year.

Patents.—The number of applications for letters patent in 1952 was 1,952, as compared with 2,047 in 1951 and 1,987 in 1950.

The applications received during 1952 may be broadly classified as follows: Mechanical engineering, 616; electronics, 331; chemistry, 329; primary industries, 278; building construction, 190, and miscellaneous, 208.

New Zealand with 693 applications held the lead from Great Britain (500), followed by the United States of America (279), Australia (215), with the remainder (265) distributed among seventeen other countries.

Trade Marks.—The number of applications in respect of trade marks during 1952 was 1,390, as compared with 1,439 in 1951 and 1,422 in 1950. Class 5 (pharmaceutical, veterinary, and sanitary substances) and 25 (clothing) again predominated with 266 and 117 applications respectively; and they were followed by Class 1 (chemical products used in industry), 94; Class 24 (textiles—piece-goods) 79; Class 9 (electrical apparatus), 76; Class 3 (soaps, cosmetics, etc.), 74; and Class 7 (machines and machine tools), with 71.

The countries from which the applications originated were: New Zealand, 407; Great Britain, 406; United States of America, 181; Germany, 123; Australia, 102; with the remainder (171) distributed between 16 other countries.

Renewal of the registration of 2,064 trade marks was effected during the year.

Designs.—Applications for the registration of designs in 1952 totalled 177, as compared with 165 in 1951 and 246 in 1950. The total number of applications since the inception of design registration in New Zealand is 6,683.

The following table shows the number of applications for patents and for the registration of trade-marks and designs in each of the last eleven years.

Year	Patents	Trade Marks	Designs
1942	1,104	398	60
1943	1,384	678	61
1944	2,045	924	104
1945	2,651	1,320	188
1946	3,025	1,766	351
1947	2,753	1,670	237
1948	2,469	1,439	229
1949	1,984	1,292	255
1950	1,987	1,422	246
1951	2,047	1,439	165
1952	1,952	1,390	177

The total receipts of the Patent Office for 1952 amounted to £34,179, of which patent fees amounted to £19,669; trade mark fees, £13,879; and design fees, £153. Payments during 1952 amounted to £27,985.

INDUSTRIAL EFFICIENCY.—The Legislature of New Zealand introduced in 1936 a measure designed “to promote the economic welfare of New Zealand by providing for the promotion of new industries in the most economic form and by so regulating the general organization, development, and operation of industries that a greater measure of industrial efficiency will be secured”. This legislation became operative as the Industrial Efficiency Act 1936, and under it the Bureau of Industry was constituted.

The Bureau of Industry, which meets at frequent intervals, is composed of both “ordinary” and “special” members appointed by the Minister of Industries and Commerce. The “ordinary” members are Government officers who are appointed because of some special knowledge or qualifications appropriate to the administration of the Act. “Special” members are those who have been appointed to represent manufacturing industries and agricultural and pastoral industries.

The Industrial Efficiency Act confers on the Bureau functions of an advisory nature to the Minister concerning the administration of the Act, and establishes it as licensing authority for such industries as are brought under the provisions of Part III of the legislation.

On 31 March 1953 there were 11 licensed industries—namely, manufacture of agar from seaweed, oil or oil cake from linseed for sale, paper pulp or paper products, remnet, rubber tires and tubes (excluding cycle tires and tubes), wooden heels for footwear, paua (*Halotis iris*) shell for sale, extraction of nutritional or medicinal oils from fish livers, importation and/or wholesale distribution of motor spirits, retail sale and distribution of motor spirits, and the business of a pharmaceutical chemist carried on in any shop or place of business. At this date there were licensed some 4,300 resellers of motor spirits and 700 pharmacies.

During recent years a number of industries previously licensed under the Act have been decontrolled. Towards the end of 1953 the Motor Spirits Distribution Act was passed by Parliament for the purpose of bringing the wholesaling and retailing of motor spirits under separate legislation. This Act is to come into force on a date to be proclaimed.

GENERAL ELECTIONS.—A general election of parliamentary representatives was held in September 1951, voting in New Zealand for both European and Maori electorates taking place on the first day of September. A summary of the voting in the European electorates for the 1951 and the four preceding elections is shown below.

	1938	1943	1946	1949	1951
Number of votes recorded for candidates elected	550,121	495,380 ¹	591,399 ²	609,584	613,378 ³
Number of votes recorded for candidates defeated	367,563	415,990 ¹	419,688 ²	425,486	419,129 ³
Number of informal votes	6,373	9,957 ¹	7,999 ²	6,724	3,630 ³
Total number of votes recorded	924,057	921,327 ¹	1,019,086 ²	1,041,794	1,036,137 ³
Percentage of votes recorded for candidates elected to total valid votes recorded	59.95	54.35	58.49	58.89	59.41
Total number of electors on roll (where contest)	995,173	1,000,197	1,081,898	1,113,852	1,166,375
Number of districts where no contest		2			
Percentage of votes recorded for candidates elected to total number of electors on roll	55.28	49.53	54.66	54.73	52.59
Number of electors voting as absent voters	41,633	35,898	48,673	47,867	60,307
Number of electors exercising postal votes	17,324	18,128	24,920	25,895	33,857

¹ Including votes recorded by members of Armed Forces (including those overseas).

The number of electors on the European roll in 1951 was 1,166,375, of whom 572,294 were men and 594,081 were women. The relatively lighter interest in the 1951 poll evinced by men and women may be measured by the number of votes recorded to the number on the roll—viz., men 510,371 (89.18 per cent) and women 525,766 (88.50 per cent), as compared with the 1949 figures of 514,599 (93.02 per cent) and 527,195 (93.15 per cent). A feature was the smaller number of informal votes recorded in 1951, 3,630, compared with the 1949 total of 6,724.

The strength of the political party representation among members of Parliament after the 1951 elections was National 50, Labour 30—this proportion remained unchanged by the later by-elections shown below.

By-elections.—Since the general elections of 1951 by-elections have been necessitated in four electorates as follows, the cause of the vacancy being the death of the sitting member in three cases.

Electorate	Sitting Member	Date of By-election	New Member
North Dunedin	Walls, R. G.	12/12/53	McMillan, Mrs E. E.
Onehunga	Osborne, A. G.	19/12/53	Watt, H.
Patea	Sheat, W. A.	31/7/54	Sheat, W. A.
Onslow	Combs, H. E.	31/7/54	May, H. L. J.

National Licensing Polls.—The licensing poll of 30 November 1949, held in conjunction with the parliamentary elections, was the eighth at which the three issues—national continuance, State purchase and control, and national prohibition (without compensation)—were submitted to the electors. Official figures of the 1949 poll, together with those of the four preceding polls, were as follows.

	1935	1938	1943	1946	1949
For national continuance	521,167	546,995	529,386	542,681	600,573
For State purchase and control	57,499	96,131	123,701	202,664	135,982
For national prohibition	243,091	263,208	269,800	259,162	268,567

A noticeable feature of the foregoing figures was the decline in the number of votes recorded for State purchase and control in the 1949 poll, following on an increase recorded at each of the three polls prior to that date. This issue received 10.6 per cent of the total votes in 1938, 13.4 per cent in 1943, 20.2 per cent in 1946, and only 12.8 per cent in 1949. National continuance reached 63.4 per cent in 1935, since when it fell gradually to 54.0 per cent in 1946, but recovered substantially, at the expense largely of the State purchase and control vote, to 62.0 per cent in 1949. Votes cast in favour of national prohibition amounted to 47.3 per cent in 1925, but fell heavily at each of the next two polls, reaching 29.6 per cent in 1935. There was little variation in this percentage in 1938 and 1943, but further falls to 25.8 per cent and 25.2 per cent were recorded in 1946 and 1949 respectively.

The voting results in each licensing district in 1949 are shown on page 895 of the 1950 issue of the Year-Book.

In the 1949 polls Maori electors were given for the first time equal rights with European electors to vote at general elections on the issues of continuance, national prohibition, and State control, as provided for by the Licensing Amendment Act 1949.

Local Option.—In the no-licence districts an additional issue is submitted to the electors—viz., restoration of licences—three-fifths of the valid votes cast being required for carrying the proposal. The voting for each of the ten districts for 1949 is given on page 895 of the 1950 Year-Book.

LICENSING.—The principal Act dealing with licensing of the sale of liquor is the Licensing Act 1908 and its amendments. An important amendment was the Licensing Amendment Act 1948 which provided for the establishment of a Licensing Control Commission with general functions of—

- Generally to supervise the activities of Licensing Committees in the performance of their functions;
- To prescribe standards to be complied with in the provision of accommodation, services, and other facilities for the public and for lodgers, guests, or employees in licensed premises;
- To control the Licensing Fund;
- To review from time to time the distribution of publicans', accommodation, tourist-house, and wholesale licences throughout New Zealand;
- To determine what publicans', accommodation, tourist-house, and wholesale licences are unnecessary, and the amount of compensation to be paid in respect of cancellation;
- To determine the number of new publicans', tourist-house, and wholesale licences to be issued in each licensing district, and, subject to the provisions of this Act, the situation of the premises in respect of which such licences are to be granted;
- To determine the fair price to be paid in respect of new publicans', tourist-house, and wholesale licences;
- To grant club charters;
- To make recommendations to the Minister as to the expediency of amending the Licensing Acts;
- To conduct inquiries on such matters as may be referred to it by the Minister.

In addition, the Commission shall have such other functions as are conferred on it by this or any other Act.

The amending Act provides that no new accommodation or New Zealand wine licences are to be granted.

The total number of publicans' licences for the time being in force is not to exceed the number in force on the passing of the Act, plus (a) an additional twenty, (b) the number granted in place of accommodation licences, (c) the number granted after the passing of the Act as a result of a determination of electors of any no-licence district at a poll under section 8 of the Licensing Amendment Act 1910, and (d) the number granted pursuant to Part VI of the 1948 amendment (i.e., special polls of electors in the Ashburton, Geraldine, and King-country areas). This total number may be increased whenever the results of any periodical census or any statistics published under the Census and Statistics Act 1926 show that the population of New Zealand has exceeded by at least fifty thousand persons the population at the time of passing the Act, or since the Commission last authorized an increase in the number of licences under this provision. The Commission may authorize such new licences on this account as it thinks fit, but not so as to exceed one licence for every complete ten thousand of the increase in population.

Wholesale licences are not to exceed in number one for every complete ten thousand of the population of New Zealand, while tourist-house licences for the time being in force are not to exceed twenty-five.

The 1948 amendment provided that the Commission shall review the distribution of the three classes of licences quoted as soon as practicable after the passing of the Act, and may do also from time to time after this initial review, with the proviso that a review must be done at least once in each succeeding period of ten years.

Various provisions were also made in respect of procedure, surrender of licences, compensation, appeals, brewers' licences, etc.

New kinds of licences which may be granted by Licensing Committees in addition to those provided for in the principal Act are tourist-house licences and works canteen licences. It is of interest to note these may be granted in respect of premises situated in any proclaimed area. The licence fee for each of the two classes is £10.

The 1948 amendment also enables the Licensing Commission to grant charters to clubs subject to certain conditions, and, in addition, included provision for the granting of temporary charters in the King-country.

The same legislation removed certain restrictions which had existed for many years with regard to the sale and supply of liquor to Maoris, by enabling Maori women to be supplied with liquor on licensed premises, and by enabling the sale and supply of liquor to Maori men for consumption off the premises.

The 1952 amendment to the principal Act validates licences granted in areas of licensing districts which were formerly parts of no-licence districts, and which became included in licensing districts by reason of changes in electoral boundaries. It also provides for the prior approval of a Magistrate as required for the sale of liquor at fairs in Licensing Trust districts. Wine-sellers' licences may be granted to licensed auctioneers, while wholesale licences are to be granted or renewed in the same manner as publicans' licences. Certain former limiting provisions are repealed, thus qualifying any woman to hold a licence. In addition to the existing provisions regarding the serving of liquor to minors, it is made an offence for a minor himself to purchase liquor or to be found in a public or private bar, subject to the same exceptions as in the principal Act, while any constable, the licensee, etc., may demand particulars of the name, age, and address of any one appearing to be a minor and offending against the new section. Licensing Committees are authorized to hold special meetings to deal with applications for new licences, requirements as to accommodation and services for new and existing licences, and at quarterly or special meetings to direct any holder of a publican's, tourist house, or accommodation licence to carry out any such requirements. A time for compliance may be fixed, and extensions of this may be granted in the case of new licences.

Part I of the Licensing Amendment Act (No. 2) 1953 provides for special polls to be taken on the questions of licensing and Trust control in the King-country and in certain areas in licensing districts (including Johnsonville and Porirua areas) where are present, owing to past changes in electoral boundaries, it is not lawful for licences to be granted. In general the licensing proposals require a three-fifths majority of the total valid votes (European and Maori combined in the case of King-country) before the proposals can be carried. Trust control proposals are carried by a simple majority, provided that the main licensing proposal has been carried.

Part II of the amendment relates to wine makers' licences and includes provisions that (a) wine makers' licences are required if wine is made for sale from apples, pears, oranges, and cider and perry; (b) there are to be two kinds of wine maker's licences, grape wine and fruit wine licences, which cannot be both held by any one person; (c) only holders of grape wine licences can blend wines, i.e., grape wine may not be blended with fruit wines; (d) licences are subject to suitability of premises, etc.; (e) if sufficient supplies of grapes are available to the applicant to produce the specified quantity before a grape wine licence can be granted.

Part III authorizes the Licensing Control Commission to conduct inquiries on such matters as may be referred to it by the Minister, and gives a right of appeal to the Supreme Court against decisions of the Commission (a) on licences cancelled on grounds that they are not needed, (b) the award of compensation for cancelled or surrendered licences, (c) or on an appeal against a direction of a Licensing Committee to a licensee to rebuild, alter, or repair premises when the cost would be £5,000 or more. It also provides that any local authority, or fifty or more electors, may apply to the Commission for a poll to determine whether the residents of any area desire that a publican's licence should be authorized in that area. The Commission is thus given discretion in respect of objections to a particular site for licensed premises. It may at the same time direct a poll to be held on the question of a local Trust, if a licensee is granted. Should the poll be against the grant of a licence, the Commission is authorized one in the area unless, after regard to the size of the poll and the majority of votes, convenience of travellers, etc., it thinks that special circumstances exist and that the granting of a licence would be in the public interest. Where the Commission has authorized a licence, there is no right of objection to the Licensing Committee on the ground that premises are in the immediate vicinity of a church, hospital, school, etc. Except for the Oamaru, Clutha, and Mataura no-licence districts, it is not necessary for the seller of liquor (to be taken into no-licence districts) to send statements of the nature and quantity of liquor and addresses to the police station nearest to delivery point.

Other sections include provisions (a) for the constitution, or alteration, of new city licensing districts for Auckland, Wellington, Christchurch, and Dunedin by Order in Council; (b) for the alteration of boundaries of any ordinary licensing district by the inclusion of any part of an adjoining district remaining after the exclusion of a no-licence district or Trust district, although power is not given to combine entire districts; (c) authorizing the Licensing Committee to redefine any licensed premises by excluding any building or part thereof that is not used or is not to be used as licensed premises, or by including any part that is so used or to be used; and (d) empowering the Commission to continue to grant exemptions from restrictions on dances, billiards, etc., in cases where a tourist-house licence is later replaced by a publican's licence for the same premises, if such facilities are not reasonably available in the locality.

During the year ended 31 March 1953 the Commission reviewed in the licensing districts held a total of 371 publicans' accommodation, and wholesale licences, compared with a total of 275 in the previous year. In addition representations for new licences totalled 24. The following table shows the number of licences either in force or authorized at 31 March 1953.

—	Publicans' and Accommodation Licences	Tourist-house Licences	Wholesale Licences
Number of licences allowable under sections 27 (1) and (2), 28 (1) and (2), Licensing Amendment Act 1948	1,128	25	194
Number of licences either in force or authorized at 1 April 1952	1,124	19	157
Number of licences cancelled or surrendered, 1952-53	7	1	4
Number of new licences authorized, 1952-53	12	3	4
Total number of licences either in force or authorized at 1 April 1953	1,129	21	161
* Includes 19 licences cancelled by the Commission, but where cancellation does not become effective until after 31 March 1953.			

NOTE.—Licensed premises in the Trust Areas of Invercargill and Masterton are not included in the above figures, as such areas are outside the jurisdiction of the Commission.

From 1 June 1949 to 31 March 1953, 125 applications had been filed for the grant of club charters. These had been dealt with as follows: charters issued, 51; granted but charters withheld pending compliance with conditions, 19; adjourned *sine die*, 26; declined, 16; withdrawn, 6; decisions not issued, 4; charters revoked, 1; and awaiting to be heard, 7.

The Commission was also concerned with 61 appeals lodged against decisions of Licensing Committees up to 31 March 1953, these being dealt with as follows: withdrawn, 13; heard, 46; dismissed, 43; allowed, 1; and awaiting hearing, 2.

The Licensing Control Commission has prescribed the minimum general standards for new hotels, these standards being intended eventually to cover all hotels, under the following headings: (a) general—means of egress; (b) bedrooms—facilities, space, ventilation, etc.; (c) bathrooms and lavatories—number in relation to number of guests; (d) heating; and (e) bars—cleanliness.

The Licensing Amendment Act 1948 also contained provisions for a referendum to be taken on the question of hours for sale of liquor in hotel bars, local restoration polls in no-licence districts, and a proposal that licences for sale of liquor be issued in the King-country. In the last two cases voters were also required to record their vote either for or against Trust control. The referendum taken on 9 March 1949 resulted in the retention of the existing hours during which hotels are open for the sale of liquor in hotel bars—i.e., between 9 a.m. and 6 p.m. Local restoration was carried at polls held on 9 March 1949 in the special areas of Ashburton and Geraldine, and in both instances the majority vote was for Trust control. In the King-country poll held on the same date, though there was a marked preponderance of European voters in favour of restoration, the corresponding Maori majority was not large enough to ensure the requisite two-thirds of the Maori valid votes.

Licensing Trusts.—A new departure in regard to the conduct of the liquor trade in New Zealand was inaugurated by the Invercargill Licensing Trust Act 1944, which established a Trust of six members to be appointed from time to time by the Governor-General. The functions of the Trust according to the Act are to provide accommodation and other facilities for the travelling public within the Invercargill Licensing District, to establish and maintain hotels and suitable places within the district for the sale or supply of refreshments, to sell and supply intoxicating liquor within the district, and to establish and maintain premises for that purpose. The net profits arising from the operations of the Trust may be expended or distributed by the Trust for the promotion, advancement, or encouragement of cultural and recreational or philanthropic purposes within the Southland Land District.

Following the result of the poll in the Masterton No-licence District in 1946, the electors were given the opportunity of recording their views as to whether they desired a form of Trust control or otherwise. The district was divided into three areas, the Akito County, the Borough of Eketahuna and the southern area consisting of the Borough of Masterton, the Mauriceville County, and those portions of the counties of Masterton, Waikaranga South, and Casterpoint which are included in the district. Polling took place on 28 May 1947, and Trust control was carried in the southern area but was defeated in the other two areas, which are predominantly rural. Legislation providing for the constitution of the Masterton Licensing Trust to control the southern area was passed during the 1947 session of Parliament.

As a result of special licensing polls held on 9 March 1949, under the authority of the Licensing Amendment Act 1948, in the Ashburton and Geraldine areas, the restoration proposal was carried by the necessary three-fifths majority in each case. A majority of the valid votes cast were also in favour of Trust control, and by virtue of the Licensing Trusts Act 1949 the Ashburton Licensing Trust and the Geraldine Licensing Trust were established and Trust districts of similar title constituted.

The Licensing Trusts Act 1949 also provided for the declaration of a district to be a Trust district whenever at any local restoration poll taken in a no-licence district the electors have determined in favour of the proposal that a local Trust be established to conduct hotels and sell intoxicating liquor in that district. The 1950 amendment enables the Licensing Control Commission to authorize or direct the taking of a preliminary poll in any locality where the local authority applies or intends to apply for a licence for a local Trust, and provides for the approval of managers by the Licensing Commission and the defining of the duties and liabilities of managers. The 1951 amendment makes further provision for financing licensing Trusts, including local Trusts established to conduct particular premises for which new licences are granted in licensing districts. The Crown is empowered to make advances to, or guarantee loans raised by, licensing Trusts for the purpose of acquiring property and for the payment of preliminary expenses. The Act also enables local authorities in a licensing Trust district to make advances or give guarantees for similar purposes, but limited in each case to one-third of the capital required; local authorities also require the consent of the Local Government Loans Board. Local Trusts are given the same borrowing powers as district licensing Trusts. The 1953 amendment authorized Trusts to make contributions for the purpose of providing superannuation or retiring allowances for their employees.

LOTTERIES.—Under section 42 of the Gaming Act 1 908, as amended in 1949, the Minister of Internal Affairs could grant permission (subject to such conditions as he thinks fit) for the disposing by raffle or chance of any painting, drawing, sculpture, or other work of art, or literature, or mineral specimen, or mechanical model. The Gaming Amendment Act 1949 made several important changes in the law relating to raffles. Major changes include provisions enabling real and personal property to be raffled, licences being formerly issued only for works of art and mineral specimens; authority is given to authorized members of the Police Force to issue raffle licences where an individual prize does not exceed £10 in value, and where the total value of the prizes does not exceed £25; and authorized members of the Police Force may from time to time approve organizations to conduct raffles provided the value of the prizes in any raffle does not exceed £5. By the Finance Act 1951 any such licence granted for the raffling of any real or personal property in excess of £100 value is subject to a lottery duty of 10 per cent of the nominal value of all tickets represented in the drawing of the lottery, whether such tickets have been disposed of by way of sale or otherwise; this is a substitution of an earlier provision relating to the raffling of mineral specimens. Information as to receipts from this source will be found in Section 30B—Taxation.

The Gaming Act also permits sweepstakes and art unions (as defined) under certain specified conditions.

During the year ended 31 March 1953, 962 licences covering small raffles with prizes ranging from £25 to £500 in cash or goods were issued to local or national organizations. Raffles in which the prizes are less than £25 are licensed and supervised by the Police. In addition, 13 licences were issued in respect of the regular £7,000 (raised from £5,000 in January 1953) art unions. The aggregate results of these regular art unions for the last seven years have been as follows.

—	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53
Number of lotteries	13	13	13	13	13	13	13
Gross sales	£ 293,464	273,867	286,494	281,405	268,418	258,886	305,856
Commission on sales	£ 44,020	41,080	42,974	42,208	40,263	38,833	45,878
Expenses	£ 34,661	32,912	31,948	33,113	33,437	35,010	41,222
Prizes	£ 65,000	65,000	65,000	65,000	65,000	65,000	71,000
Net proceeds	£ 149,783	134,875	146,572	141,084	129,718	120,443	147,756
Lottery duty	£ 29,346	27,386	28,649	28,138	26,841	25,888	30,585
Net profit	£ 120,437	107,489	117,923	112,946	102,877	94,555	117,171

Allocation of funds earned from the art unions shown in the preceding table during 1952-53 was as follows: £17,330 was distributed to the various mayoral or other recognized central funds established for the relief of distress; £38,120 to charitable and philanthropic organizations; £9,893 to children's health camps; £15,000 to the New Zealand Patriotic Fund Board for benefit of servicemen overseas ("Kay-force"); £11,761 to old folks' associations and physical welfare organizations; £14,000 to the Cultural and Recreational Trust Account; Salvation Army, £5,500; Methodist Central Mission, Auckland, £5,000; New Zealand Olympic Games Association, £4,000; Plunket Society, £4,000; New Zealand Pipe and New Zealand Brass Bands Associations, £2,000 each; Auckland Hockey Association, £2,500; Methodist Evenide Home, Dunedin, £2,000; National Council of Y.M.C.A., £1,500; Barling Pat for Britain Scheme, £1,200; New Zealand Women's Hockey and New Zealand Amateur Swimming Associations, £1,000 each; Lakes District Museum, £1,000; New Zealand Women's Cricket Council, £500; and miscellaneous grants, £4,000.

MAORI WELFARE.—The legislative basis of the Maori welfare programme is the Maori Social and Economic Advancement Act of 1945. The aim of the Act is "The social and economic advancement and the promotion and maintenance of the health and general well-being of the Maori community." It is also designed to facilitate the full integration of the Maori race into the social and economic structure of the country. An important feature of the Act is that it does not seek to impose standards from without; rather, it calls upon the Maori people to exercise control and direction of their own communities in the essentials of good citizenship and civic responsibility.

Under the above Act areas may be declared Tribal districts or Tribal Committee areas. In such districts or areas Tribal Executive Committees and Welfare Officers have been set up by the Maori people to promote their development. At 31 March 1953 the numbers of such districts and areas were 77 and 446 respectively. A Controller, 6 district welfare officers, 28 males and 21 female welfare officers, nearly all of the Maori race, have been appointed to advise and assist these bodies.

An outstanding development of the 1952-53 year was the formation of District Councils in seven Maori Land Court districts. These Councils are made up of Tribal Executive representatives. This step enables co-ordination between Executives, and at the same time gave a new impetus to the Executive and Committee organizations; it also provides a better focus of opinion for the benefit of the districts, the Department, and of the Minister of Maori Affairs.

One of the major aspects of the recent development of Maori welfare is the emergence of women as an organized socializing factor. Thus as at 31 March 1953 the Maori Women's Welfare League had a total strength of almost 3,500 members.

The Act provides for subsidies to be paid on moneys raised by the Maori people through their Executives and Committees for various social purposes set out in the Act, mainly in the improvement of local amenities. The subsidy granted in the financial year ended 31 March 1953 amounted to £23,861.

The Minister of Maori Affairs also appoints Maori Wardens who have certain powers to ensure orderly behaviour among the Maori people within the Tribal districts to which they are appointed. By 31 March 1953 wardens' certificates were held by 159 persons, all being Maoris.

The 1951 amendment to the principal Act replaces existing legislation relating to the supply of intoxicating liquor to Maoris. While similar to earlier provisions prohibiting the supply and consumption of liquor in or near dance halls, the new section is somewhat wider in scope and prohibits the supply and consumption of liquor where any gathering of Maoris is being held at a "marae". Provision is made for the issue of permits by Tribal Committees authorizing the supply of liquor to Maori gatherings in certain circumstances. There are also provisions relating to applications for prohibition orders against Maoris.

TIME-SERVICE ARRANGEMENTS.—The following article in the New Zealand time-service arrangements was prepared by Mr. R. C. Hayes, Director of the Seismological Observatory.

One uniform time is kept throughout New Zealand. The *New Zealand Gazette* of 31 October 1868 contained a Government announcement to the effect that the time corresponding to longitude 172° 30' east of Greenwich (exactly 11 1/2 hours in advance of Greenwich time) was to be adopted as the New Zealand Mean Time throughout the colony, and that from 2 November (of the same year) the public offices of the General Government were to be opened and closed in accordance therewith.

This New Zealand Mean Time, 11h. 30m. in advance of Greenwich Mean Time (G.M.T.), was observed continuously up to 1927, when on 6 November clocks were advanced 1 hour until 4 March 1928. The next period of Summer Time was from 14 October 1928 to 17 March 1929, but in this and in subsequent periods clocks were advanced only 30 minutes (to 12h. ahead of G.M.T.). The Summer Time Act of 1929 provided for clocks to be advanced 30 minutes from the second Sunday in October of any year to the third Sunday in March of the following year. By the Summer Time Amendment Act 1931, the period of Summer Time was extended from the first Sunday in September to the last Sunday in April. This amendment commenced in 1934, when the period of Summer Time was extended until 29 April.

The Daylight Saving Emergency Regulations of 1941 provided for the continuance of Summer Time throughout that year, and its continued observance during subsequent winter years was provided for by regulations made annually.

By the Standard Time Act of 1945 the time of the meridian 180° east of Greenwich (12h. in advance of G.M.T.) was adopted as the Standard Time for New Zealand. Thus, what was formerly known as "Summer Time" became "New Zealand Standard Time" as from 1 January 1946. The times stated in this article are New Zealand Standard Time, unless otherwise stated.

The time throughout New Zealand is controlled by the Seismological Observatory, Wellington. The Observatory signal clock is kept as correct as possible by means of astronomical observations, and by comparison with radio time signals from observatories in other parts of the world.

The Observatory provides the following time-service:

(1) RADIO TIME SIGNALS TRANSMITTED THROUGH STATION ZL ON A WAVELENGTH OF 500 Kc/s (600 METRES) I.C.W.

These signals are transmitted between 10h. 55m. and 11h. 00m. a.m. daily, and are in accordance with the modified ONOGO system. The procedure is as follows:

At 10h. 55m. 30s. the "Attention" call (— . — . — .), followed by the Observatory call sign ZMO (— . — . — . — .).

From 10h. 56m. 05s. to 10h. 56m. 50s. the letter O (— . — .), repeated every ten seconds, except that the third series from 25s. to 30s. consists of a single dash prolonged for five seconds.

From 10h. 57m. 00s. to 10h. 57m. 49s. the letter X (— . — .), repeated every five seconds.

From 10h. 57m. 55s. to 10h. 58m. 00s., First Time Signal, consisting of six dots at intervals of one second.

From 10h. 58m. 08s. to 10h. 58m. 50s. the letter N (— . — .), repeated every ten seconds.

From 10h. 58m. 55s. to 10h. 59m. 00s., Second Time Signal, consisting of six dots at intervals of one second.

From 10h. 59m. 06s. to 10h. 59m. 50s. the letter G (— . — .), repeated every ten seconds.

From 10h. 59m. 55s. to 11h. 00m. 00s., Third Time Signal, consisting of six dots at intervals of one second.

The series of six dots which constitute the actual time signals are transmitted directly from the Observatory signal clock, which is seldom more than one-tenth of a second in error. The remaining signals are for tuning and identification purposes only, and should not be used as precise time signals. Corrections to the time signals can be obtained on application to the Seismological Observatory.

(2) RADIO TIME SIGNALS TRANSMITTED BY THE NEW ZEALAND BROADCASTING SERVICE

Time-signals from the Observatory are transmitted as follows:

New Zealand Standard Time.

6.00 a.m. All YA and YZ stations (daily except Sundays).

7.00 a.m. All YA and YZ stations (daily except Sundays).

8.00 a.m. All YA and YZ stations (daily).

9.00 a.m. All YA and YZ stations (daily).

10.58 a.m.

10.59 a.m. 2YA only (daily).

11.00 a.m.

12.30 p.m. All YA and YZ stations (daily).

4.00 p.m. 2YA only (daily).

6.30 p.m. All YA and YZ stations (daily).

7.00 p.m. All YA and YZ stations (daily).

9.00 p.m. All YA and YZ stations (daily except Sundays).

10.00 p.m. 2YA only (daily).

11.00 p.m. All YA and YZ stations (Saturdays only).

Each time signal consists of six dots, separated by intervals of one second, the last dot being the exact minute.

(3) TIME SIGNALS BY TELEGRAPH

The Observatory sends time signals by telegraph to the General Post Office and the Railways Department, Wellington, at 9h. a.m. daily. This signal is transmitted to all telegraph offices in New Zealand and to all railway stations in the North Island.

(4) PUBLIC CLOCKS

The Government Buildings clock (Wellington) is checked at 9h. a.m. daily by means of a special circuit between the clock and the Observatory. The error of this clock is usually less than 15 seconds.

An electric synchronous clock, installed at the Observatory, is checked twice daily. Observations show that, under normal conditions of power supply, the variation of the electric clocks amounts to a few seconds only.

TOURIST ATTRACTIONS.—Reference to pages 932–935 of the 1940 Year-Book, or pages 812–815 of the 1939 issue, will give a brief description of the main tourist attractions in New Zealand.

MINERAL WATERS AND SPAS.—For information concerning the mineral waters and spas of New Zealand, reference should be made to the 1940 and earlier editions of the Year-Book, which contain a short description of the Rotorua and Te Aroha spas, together with analysis of the more important springs at the latter, while in the 1913 issue of the Year-Book will be found detailed analyses of the various mineral waters throughout New Zealand.

REVIEW OF LEGISLATION, 1933.—During the parliamentary session of 1953, which commenced on 8 April, was passed from 30 April to 12 August, and which ended on 27 November, the General Assembly passed 122 public Acts, 15 local Acts, and 1 private Act. The following is a brief synopsis of the more important public Acts adopted during the session.

The Royal Titles Act 1953 provides for the assent of Parliament to an alteration of the royal style and titles, thus giving effect to the agreement referred to in the communique issued by the Commonwealth Prime Ministers' Conference in London in 1952.

The Emergency Forces Rehabilitation Act 1953 re-enacts Part III of the Emergency Forces Act 1950 in an extended form, so as to enable regulations to be made for the rehabilitation and protection of servicemen who have served overseas in connection with any emergency, and repeals the 1950 Act.

The Property Law Amendment Act 1953 provides that a lessee is not to become personally liable to the mortgagee.

The New Zealand Government Property Corporation Act 1953 establishes a corporation (the New Zealand Government Corporation) with power to hold and deal with New Zealand Government property both within and outside New Zealand, and defines its powers.

The Military Training Amendment Act 1953 extends the principal Act by providing for the liability for service of men becoming ordinarily resident in New Zealand between eighteen and twenty-one years of age.

The Department of Agriculture Act 1953 provides for the constitution of the Department of Agriculture and for the appointment and control of its staff. It defines the functions of the Department, confers powers necessary to enable those functions to be carried on, and provides for the delegation in proper cases of the powers conferred on the Minister and on the Director General of Agriculture. The Department of Agriculture has existed as a separate Department in New Zealand since 1893, but the special legislation providing for its constitution will be useful both to the Department and the Minister.

The Tenancy Amendment Act 1953 prescribes special circumstances to be taken into account in fixing the fair rents of dwellinghouses and business properties under the principal Act. The Act is substantially the same as the Tenancy Regulations 1952/248 of December 1952 which were revoked by the Act. (Refer to Section 38 G for details).

The Finance Act 1953 authorizes the construction of railways centred on Kaverau, abolishes the Government Fire Insurance Fund, validates the general increase of salaries of Government servants made from September 1952, exempts donations to Flood Relief Funds for the United Kingdom and Netherlands from gift duty, and validates expenditure by local authorities on celebrations on the occasion of the Coronation of Her Majesty the Queen.

The Primary Products Marketing Act 1953 provides for the establishment by regulations of Marketing Authorities enabling producers of primary products to regulate the marketing of those products, certain products excluded already being the subject of laws which may still be in force until they are laid before Parliament. In exercising their functions as set out by regulation, a Marketing Authority is to comply with the general trade policy of the Government and any directions given by the Minister pursuant to Government policy.

The Marketing Amendment Act 1953 abolishes the Marketing Department and transfers its functions and obligations to the Department of Agriculture.

The Local Elections and Polls Amendment Act 1953 provides for the holding of the 1953 general elections of local authorities on 31 October instead of 21 November.

The Licensing Amendment Act 1953 provides that packet, wholesale, wine makers', and wine sellers' licences under the Licensing Act 1908 may be held by corporations, with retrospective operation of the Act.

The Nassella Taxation Amendment Act 1953 empowers County Councils to remit advances in proper cases, extends the memberships of the two Boards by an officer of the Lands and Survey Department in each case, and provides that the Crown may meet the expense in certain cases.

The Local Elections and Polls Act 1953 consolidates the law relating to the conduct of local elections and polls, and incorporates provisions which at present appear in other Acts and relate only to specified classes of local authorities.

The Hospitals Amendment Act 1953 provides that Hospital Board securities are to be authorized trustee investments, and for payment of loan moneys by the Minister of Finance on default by a Hospital Board, this then constituting a debt to the Crown by the Board.

The Royal Powers Act 1953 provides for the exercise by Her Majesty the Queen in New Zealand of the statutory powers conferred on the Governor-General.

The Royal New Zealand Institute of Horticulture Act 1953 consolidates and amends the 1927 Act and its amendments. It authorizes the Institute to conduct examinations and grant certificates and diplomas in horticulture.

The Petroleum Amendment Act 1953 provides that the deposit of £1 000 as security for compliance with a prospecting licence under the principal Act may be waived if the Minister thinks fit so to do.

The Workers' Compensation Amendment Act 1953 increases the maximum amounts of compensation payable on death or injury, and the percentage of the worker's weekly earnings on which compensation payments are based, and also provides for any future changes in the minimum or maximum amounts of compensation or in the weekly payments to be made by Order in Council. In prescribing such amounts regard is to be had to any increase or decrease in wages—e.g., by general order or standard wage pronouncement. Where compensation is based on average weekly earnings, these earnings are to vary with movements in the appropriate minimum wage. Compensation for incapacity for part of a week is proportional to working hours or days lost. Other sections include those enabling employers of casual or intermittent labour to be insured throughout the year, providing for employers ceasing and later recommencing business in the same year to be indemnified by their former insurers, and making the principal Act apply to commission salesmen.

The Public Works Amendment Act 1953 permits local authorities to accept dedication of roads and streets in cases of subdivisions where the owner enters into a contract to form roads, etc.

The Transport Amendment Act 1953 enables motor drivers' licences to be issued with a currency of up to five years, exclusive of those cases where a medical certificate is required, and provides for the disqualification for at least twenty-eight days of persons convicted of reckless, negligent, or dangerous driving, or of certain accident-promoting offences. For offences listed in sections 39, 41, 42, and 44 of the principal Act the expression "while under the influence of drink or a drug to such an extent as to be incapable of having proper control of the vehicle" is substituted for the former expression "while in a state of intoxication". The former offence of being in charge of a motor vehicle while in a state of intoxication is now separated into two parts, one driving or attempting to drive while under the influence of drink, and the other of being in charge while under the influence of drink though not driving or attempting to drive, the penalty for the latter offence being a maximum fine of £100, but cancellation of licences and suppression of names are left to the discretion of the Court. A new section provides for the suspension or disqualification of the driver's licence for three months, unless the Court considers the circumstances do not warrant it, in cases where drink is a contributing factor to the commission of the offence. A constable or traffic officer may forbid any person incapable of having proper control of a motor vehicle to drive, and may take steps to render the vehicle immobile, etc. Certain vehicles—e.g., those used for the carriage of passengers for hire, explosives, and inflammable liquids—must stop at railway crossings. Those committing offences in respect of the duties of motor drivers in cases of accidents may be dealt with summarily, and not necessarily only by indictment. Other sections deal with the removal of abandoned vehicles from the roads, amend the provisions as to refunds of duty on motor spirits, provide for mileage tax to be paid quarterly instead of monthly, and provide for cases of faulty third-party insurance nominations.

The Land and Income Tax (Annual) Act 1953 fixes the rates of land tax and income tax for the assessment year commencing 1 April 1953, these being unchanged except that the surcharge on income tax is reduced to 27/100; per cent instead of 5 per cent. The rebate remains at 15.

The Land and Income Tax Amendment Act 1953 increases (a) the personal exemption from £200 to £230, and also applies this to aggregated assessments, (b) the special exemption for each dependent child or dependent relative from £50 to £65, and includes foster children under this heading, (c) from £150 to £175 the maximum amount of the special exemption in respect of life insurance premiums and superannuation contributions, and (d) the special exemption for the wife of a taxpayer so that it will be £100 diminished at the rate of £1 for every complete £1 of income over £100 instead of at the rate of £2 for every £1 over £50. Losses are allowed to be set off against income for the six following years, instead of three, while the special depreciation allowances on buildings and plant, also the initial depreciation allowances on farm accommodation, are extended to 31 March 1955. Provision is made for a revised assessment where the assets are sold after the deduction of an initial depreciation allowance, and also for the grant of an initial depreciation allowance on the cost of new accommodation buildings for his employees erected by or for an employer in business other than farming. Other sections include giving effect to terms of the 1953 Development Loan by restricting income tax on the interest from exceeding 9s. 4d. in the pound.

The Rehabilitation Amendment Act 1953 extends the duration of power to assist certain servicemen's widows to 31 December 1955.

The Apiaries Amendment Act 1953 provides that the access to hives must be kept clear and contains restrictions on spraying of trees and plants while these are in bloom.

The Music Teachers Registration Amendment Act 1953 amends the constitution of districts represented on the Music Teachers Registration Board.

The Wildlife Act 1953 consolidates and amends the Animals Protection and Game Act 1921–22. Part I deals with wildlife. All wildlife is absolutely protected except for species specified in schedules to the Act, which provide for (a) game, (b) partially protected species, (c) wildlife that may be killed subject to the Minister's notification, (d) wildlife that is unprotected except in areas and during periods specified in the Minister's notification, and (e) unprotected wildlife. Provision is made for the constitution of wildlife sanctuaries (areas devoted primarily as habitat areas for wildlife where the maximum degree of protection can be afforded—i.e., given absolute protection), wildlife refuges (the former game sanctuaries but extended to cover wildlife as well), and wildlife districts. Part II relates to game, and re-enacts existing legislation, prohibits the fouling of game in areas by placing grain, etc., near waters in order to attract and kill game, deletes provisions authorizing the occupier to nominate some other person to take game in his stead, prohibits shooting of game not in flight and the sale or purchase of game, and provides that a licence holder is not to enter private land without consent or to shoot on land of acclimatization societies, sanctuaries, reserves, public domains, scenic reserves, etc. Part III relates to acclimatization districts and societies and re-enacts existing legislation with modifications as to districts, membership, and rules; defines the functions of societies; and prescribes the purposes for which funds may be expended. The appointment of rangers and definition of their functions are provided for, while the powers of the Minister under the Act are also set out. Part IV relates to injurious birds, generally on the lines of existing legislation, while Part V contains general provisions, such as restrictions on liberation of animals and export of wildlife without authority, production of licences and equipment on demand by an authorized person, offences and penalties, and miscellaneous.

The New Zealand University Amendment Act 1953 provides that candidates for University National Scholarships must be resident in New Zealand at the date of the award.

The Canterbury University College Amendment Act 1953 provides that the Council member appointed by the full-time lecturers, not members of the Professorial Board, may be a person in the employment of the Council.

The Maori Trust Leases Renewal Act 1953 provides for a simple and more convenient method of renewing leases of lands which are vested in or controlled by the Maori Trustee, by the execution of a memorandum of extension of lease, where the lessee has a right of renewal.

The Amusement Tax Amendment Act 1953 imposes amusement tax in respect of specific types of entertainments and frees those which do not fall within the defined limits. Entertainment is defined as horse or dog race meetings; professional boxing or wrestling; any circus or rodeo where performers, etc., are paid, not being a rodeo promoted by an agricultural and pastoral society; speedway motor racing where performers are paid; motion-picture shows, but not lectures illustrated by motion pictures; and any stage performance where the performers, etc., are paid. Specified exemptions are entertainments (a) of which the proceeds are devoted to charitable, philanthropic, or educational purposes in New Zealand or to patriotic purposes; (b) which are promoted by the National or Regional Councils of Adult Education if net proceeds are devoted to approved cultural and educational purposes; and (c) such as plays, ballets, and musical entertainments promoted by New Zealand non-profit societies if the proceeds are devoted to the objects of the society and expenses are reasonable.

The Dairy Products Marketing Commission Amendment Act 1953 amends the term of office of members of the Commission, empowers the Commission to acquire shares in overseas marketing companies, and to delegate to a Committee the control of the marketing of milk powder intended for export.

The Patriotic and Canteen Funds Amendment Act 1953 permits the Boards and Councils to empower their Committees to authorize the affixing of the common seal to documents, the execution of the documents to be attested by two members of the Committee.

The Fisheries Amendment Act 1953 makes miscellaneous amendments to the principal Act. It provides for the establishment of fisheries experimental waters by Order in Council. Under certain conditions one or more close seasons may be dispensed with or a close season of less than five months' duration for salmon and trout fishing in any acclimatization district may be fixed.

The Electric Power Boards Amendment Act 1953 provides that a riding or group of ridings may be declared a separate constituent district, and authorizes Boards to make advances to employes for housing purposes.

The Fencing Amendment Act 1953 provides (a) that proceedings under the Act are to be in accordance with the Magistrates' Courts Act 1947, (b) that the half cost of non-rabbit-proof fence is to be such sum as is agreed upon or fixed by a Magistrate as a reasonable one, and (c) an amended description of certain types of sufficient fences.

The Dairy Board Act 1953 re-enacts the legislation constituting the New Zealand Dairy Board and prescribes the powers and functions of the Board, no material change being made to the present law.

The Forests Amendment Act 1953 makes several amendments to the principal Act, including those dealing with the matter to be specified in working plans, defining the lawful authority for lighting of fires on State forest land as a Forest Officer or a Fire Officer under the Forest and Rural Fires Act 1947, requiring appeals relating to costs of fire fighting to set out the grounds of the appeal in writing, and dealing with the control of injurious importations and exportations.

The Divorce and Matrimonial Causes Amendment Act 1953 contains a provision enabling the Supreme Court to make a decree of presumption of death and dissolution of marriage on a petition by one party alleging that reasonable grounds exist for supposing the other party is dead. Comprehensive provision as to nullity of marriage is made, replacing the common law. Petitions for nullity may be presented when either party is domiciled, or where the marriage was celebrated, in New Zealand. Section 3 (2) of the amendment sets out cases where marriage is void from the beginning, and section 3 (3) the only grounds on which a marriage shall be voidable. The desertion of one party is not to be terminated by the mental deficiency of the deserting party if it appears to the Court that the desertion would probably have continued if the deserting party had not become mentally deficient. The grounds for divorce are amended to include (a) conviction of murder or conviction of attempted murder, etc., of petitioner or child, (b) if respondent is of unsound mind and not likely to recover and has been confined in an institution for five years immediately preceding the petition, and (c) parties are living apart for not less than seven years and are unlikely to be reconciled. Failure to comply with a decree for restitution of conjugal rights is to be a ground for divorce only after three years. The interval before a *decree nisi* is made absolute may be reduced to not less than six weeks in any particular case. An order for the maintenance of a wife by her husband may be made binding on the husband's estate after his death during the lifetime of the wife, and the power of the Court to vary or modify orders is extended. Other sections include empowering the Court to vest the tenancy of the dwellinghouse in the petitioner, the right of the landlord to apply for cancellation or variation of the vesting order, and the right of appeal by the landlord, the reduction of time for appeals to the Court of Appeal from Supreme Court decisions under the principal Act to six weeks instead of three months; and amended provisions as to domicile and recognition of overseas decrees.

The Judicature Amendment Act 1953 authorizes a Judge or Judges of the Supreme Court to be appointed in excess of number fixed by law (eleven) where necessary, owing to the absence of any Judge on leave prior to retirement. These are to be permanent appointments in anticipation of next vacancies to occur.

The Local Authorities' Emergency Powers Act 1953 confers the necessary powers on local authorities to enable them to prepare plans for action to be taken in emergencies arising from earthquakes, fire, or flood, or in time of war from enemy action or enemy sympathizers, and to carry those plans into effect when an emergency arises. Functions envisaged cover rescue, emergency works, street clearing, transport of casualties, relief and welfare arrangements, distribution and conservation of foodstuffs, advice and information services, and control co-ordination. The Chairman or Mayor is given power to act until the local authority and its committees, controllers, etc., can assume control. Finance may be arranged by borrowing by special order without polls of ratepayers and by bank overdraft, subject to the consent of the Minister. The Minister of Internal Affairs is empowered to give directions to the local authorities to exercise of to cease the powers given by the Act.

The Tenancy Amendment Act (No. 2) 1953 provides that premiums may be taken into account in fixing fair rents, and that fair rents are to be assessed separately where a property and a dwelling-house are let together. Grounds for the recovery of possession are extended to possession of dwellinghouse for landlord's aged persons, retirement by an administrator of a deceased landlord so as to wind up the estate, and possession for removal of dwellinghouse to another site. Excess of the landlord to apply for cancellation or variation of the vesting order, and the right of appeal by the landlord, the reduction of time for appeals to the Court of Appeal from Supreme Court decisions under the principal Act to six weeks instead of three months; and amended provisions as to domicile and recognition of overseas decrees.

The Post and Telegraph Amendment Act 1953 provides that former employees of Cable and Wireless, Ltd., are deemed officers of the Department for certain purposes (promotions, appeals, etc.); all losses from departmental operations are to be taken into account before any profit is paid into the Consolidated Fund; regulations may be made regarding the qualifications of officers (examinations, fees, etc.); and permanent officers on probation automatically become contributors to the Sick Benefit Fund; provision for temporary officers to be deemed contributors also being made.

The Cemeteries Amendment Act 1953 authorizes the Trustees of a cemetery to grant leases not exceeding five years of any unused portions of a cemetery, and enables them to contribute to the maintenance of some other cemetery, subject to the consent of the Minister of Health.

The Insurance Companies' Deposits Act 1953 consolidates with amendments the 1921–22 Act and its amendments. The only material changes are in connection with deposits by mutual fire insurance associations, the form future deposits are to take, and the powers of the Supreme Court to enforce a charge on the deposits in favour of policyholders. There is an obligation on mutual fire insurance associations to make deposits in respect of employers' liability insurance business, such deposits to be approved securities valued at £1 000, together with £1 000 of approved securities for every complete £2 500 of premium income earned in that class of business in the last financial year before the passing of the Act, with a maximum deposit of £22 500. All future deposits are to be made in approved securities. Deposits are to be held by the Public Trustee in trust for the policyholders. The Supreme Court is empowered to make orders for the realization of securities held as deposits, for the distribution or application of the proceeds, and for making effective the security granted to policyholders and claimants.

The King George the Fifth Memorial Children's Health Camps Act 1953 makes provision for the establishment of children's health camps as a memorial to His Late Majesty King George the Fifth, for the amalgamation of the King George the Fifth Memorial Fund Board and the New Zealand Federation of Health Camps (Incorporated), and for the control and administration of the assets. The Act constitutes a body corporate called the King George the Fifth Memorial Children's Health Camps Federation, consisting of the Board, the Central Councils, the district committees, the local committees, and the camp management committees.

The Samoa Amendment Act 1953 empowers the High Commissioner to confer jurisdiction on Samoan Judges of not less than two years' standing to deal with persons other than Samoans and to impose terms of imprisonment. It declares that the Legislative Assembly of Western Samoa has power to make Ordinances for the establishment of inferior Courts of justice having civil or criminal jurisdiction. It authorizes the exchange of Samoan Treasury notes for an equal amount of New Zealand currency, and provides that the Minister of Finance may fix from time to time a rate of exchange between New Zealand and Western Samoa. Other sections preserve the superannuation rights of officers of the Western Samoa Public Service, and extend the time for holding the election of the member of the Public Service Board of Appeal for Western Samoa.

The Destitute Persons Amendment Act 1953 enables orders for maintenance of a child up to sixteen years, or to eighteen years if receiving education, to be made by a Magistrate where he makes a maintenance or guardianship order in favour of the wife or husband. It provides for a separation order to cease to have effect on resumption of cohabitation, and enables a Magistrate to vest a tenancy in either party to the proceedings.

The Stamp Duties Amendment Act 1953 amends the penalties for late presentation for stamping and for late payment of duty after assessment, provides for duty on an instrument directing money to be applied in payment for shares issued to another person, and abolishes stamp duty on statutory declarations and affidavits. Other sections include the exemption from deed duty of variations and discharges of mortgages of property other than land, and variations and discharges of mortgages of insurance policies; provide for refund of conveyance duty where the agreement or conveyance is rescinded; and provide for an allowance for stamps rendered unusable for purpose issued.

The Death Duties Amendment Act 1953 brings the proportionate part of a durable estate of an annuity provided partly by the deceased and partly by another person. Estate and succession duties apply notwithstanding that the beneficial interest accruing or arising on the death of the deceased is provided for by a contract not enforceable by the person who benefits. Relief in the case of quick succession is provided for—after a second death within one year, 50 per cent reduction; two years, 40 per cent; three years, 30 per cent; four years, 20 per cent; and within five years, a 10 per cent reduction. Other provisions include a reduction from ten to three years of the period before death year which a reservation must be given up to escape duty on a settlement; simple interest is to be allowed on deferred or overdue duty; power is given to remit interest on deficient duty in cases of hardship; extension of exemption for small gifts of up to £50; imposition of a penalty of 10 per cent on all gift duty not paid within one year; extension from three to six years for making refunds; and empowering the Commissioner to compromise claims for duty without reference to the Minister.

The Underground Water Act 1953 provides for the control of the tapping, use, and pollution of underground water. Its object is to protect the proper interests of users of artesian waters and safeguard their reasonable requirements. It provides for the constitution of underground water areas, and of Underground Water Authorities with powers to make by-laws, pay compensation, etc. There is, in certain instances, a right of appeal to the Magistrate's Court.

The Customs Act Amendment Act 1953 amends the principal Act as to prohibited imports, provides that forfeitures are to be independent of penalties, and in Part II gives effect to the additional exemptions from sales tax provided for by the Resolution passed by the House of Representatives on 27 August 1953.

The Government Life Insurance Act 1953 consolidates with amendments the 1908 Act and its amendments. New provisions include enabling the Commissioner to write off amounts owing by canvassing agents which he regards as irrecoverable, and to establish and administer a superannuation fund for canvassing agents; specifying the manner in which the Commissioner is to execute contracts; permitting loans for residential purposes in special cases to be made up to a maximum of £2,500; providing that the valuation of land for investment purposes is to be made by the Valuer-General; specifying the procedure to be adopted for the acquisition of land and buildings for office purposes; vesting in the Commissioner all property at present vested in the Crown for the purpose of the Government Life Insurance Office; authorizing the Commissioner to expend money on the salvage of securities and to capitalize arrears of interest owing under mortgages.

The Police Offences Amendment Act 1953 makes it an offence for a person who has charge of an animal, but who is not the owner, to permit it to be cruelly treated.

The Life Insurance Amendment Act 1953 abolishes the requirement that a mortgage of an insurance policy must be executed by the mortgagee.

The Superannuation Amendment Act 1953 amends the principal Act mainly by enabling retiring allowances under £300 a year to be computed on the average salary for the last three years instead of the last five years which will result in increasing the allowance. It also removes the restrictive age provision as to pre-entry service or training, provides for a proportionate reduction in contributory service if the full contributions are not paid, ensures that a widow's annuity is paid proportionately to the contributor's retiring allowance computed without regard to any election to take a variable allowance or to surrender part of the allowance to an approved dependant, provides for recovery of money directly without lawful authority, etc.

The Friendly Societies Amendment Act 1953 empowers friendly societies to establish and conduct convalescent homes for the aged, increases the maximum interest that a member may have in a loan fund of a friendly society from £300 to £750; provides that any member of the New Zealand Society of Accountants may be a sole auditor, and increases from £150 to £200 the maximum amount of a member's interest in the funds that he can dispose of by nomination on his death, or that can be distributed by the Society without probate or letters of administration.

The Government Railways Amendment Act 1953 makes a number of minor amendments to the principal Act, including provision to make regulations not only as regards railways but also for other lawful services carried on, giving express power to the Commissioner to fix scales of charges for Johnsonville road passenger services, providing that transport services may be carried on by a contractor, etc.

The Patents Act 1953, the Designs Act 1953, and the Trade Marks Act 1953, are all consequential on the report of the Commission appointed to inquire into and report on the law of New Zealand relating to patents, designs, and trade marks, and presented in June 1950. Three separate Acts were passed, with the provision that each was to come into law to be appointed by the Governor-General by Proclamation. While the law relating to trade marks was only slightly amended, the other Acts make substantial changes in procedure, especially the Patents Act.

The Land Amendment Act 1953 in Part I relates to community water supplies and amends existing legislation on this matter. It provides also for the formation of Community Water Supply Associations as private companies under the Companies Act 1953, comprising the owners, lessees, and licensees who derive water supplies from community schemes. Each member's shares are linked with his farm by requiring him to give security over his farm to the association for the uncalculated capital of his shares and any water levies made. Shares can only be transferred to a transferee of his land, and when land is transferred so also are the shares. A member may not withdraw unless he pays the amount of his uncalculated capital and levies outstanding. The Land Settlement Board may grant advances to an association on the security of its assets. Part II consists of miscellaneous amendments, and includes provisions for registration of leases not required for the time being, in the special register of leases not registered under the Land Transfer Act 1952; the declaration of all existing kauri-gum reserves as ordinary Crown land; the repeal of the Kauri Gum Act 1908; and makes provision for the variation of covenants in leases and licences by a memorandum of variation.

The Orchard Levy Act 1953 authorizes the making of a general levy not exceeding £2 10s. a year on occupiers of orchards to provide for the development of the fruitgrowing industry, and also authorizes the making of a special levy not exceeding that amount on occupiers of orchards in a fruitgrowing district for the purpose of controlling a particular disease within the district. The Act supersedes and repeals the Orchard Tax Act 1927 and the Freehold Tax Act 1922, but is not a consolidation of those Acts. The Act authorizes the making of regulations to give effect to the provisions of the Act.

The Reserves and Domains Act 1953 consolidates with amendments the Public Reserves and Domains Act 1928 and its amendments and the Scenery Preservation Act 1908 and its amendments, and also incorporates new provisions relating to historic reserves. In the main the existing law is re-enacted without substantial alteration, the most important changes relating to the procedure for constituting reserves, changing the purposes of reservations, etc., which in future will be done by a notice by the Minister of Lands published in the *Gazette* in lieu of an Order in Council in each instance. The purpose of that part of the Act relating to historic reserves is to preserve in perpetuity as historic places for the use, benefit, or enjoyment of the public, such places, objects, and things as are of historic, archaeological, scientific, educational, or other special national interest. The Act provides for the declaration of any public reserve, or private land at the request of the owner, as historic reserves, and empowers the Minister to take the necessary steps to preserve and manage these and make them accessible under proper conditions to the public.

The Education Amendment Act 1953 provides for the division of Education Board districts into wards, and for consequential amendments to the constitution of Boards, election and term of office of members, etc. The Act contains general provisions for the control of any group of three or more post-primary schools specified by Order in Council by a Post-primary Schools Council. There will still be a Board of Governors for each constituent school. Another section relates to School Committees of districts in which there are normal schools.

The Cinematograph Films Amendment Act 1953 enables the Censor to approve a film with a recommendation that it is suitable only for specified classes or descriptions of persons; provides for regulations to fix fees under Part II of the Act, and authorizes the Censor to exempt from examination for censorship certain specified classes of films (mainly technical and smaller gauge copies of already censored large gauge films); replaces the term "British film" by "Commonwealth film"; with consequential alterations; provides for reissue certificates; and among others, amends those provisions relating to films excluded from quota provisions (basis changed to films under 35 minutes of screening time) and to serial films.

The Rabbit Nuisance Amendment Act 1953 relates to the membership of the Boards in certain cases; increases the maximum general rate that may be levied where rating is on a stock basis or on rateable value; provides for the subsidy on general rates to Boards having a district of 10,000 acres or more (instead of 20,000) and for advances of 75 per cent in anticipation of subsidy; extends the period of notice to be given before the inspector may enter on land to destroy rabbits; gives power to districts or dwellings not required for employees, makes it an offence to sell the skins of certain animals, and amends the law in other respects.

The Public Revenue Act 1953 consolidates the 1926 Act and its amendments, in the main re-enacting the existing law without substantial alteration, and omitting a number of obsolete provisions. The Treasury is established as a Department of State, certain powers (mainly in respect of daily matters) being given to the Secretary instead of the Minister of Finance. The power of the Comptroller and Auditor-General to issue a surcharge is to be discretionary, and as regards appeals against surcharges the Minister is empowered to arrange for an investigation into the circumstances before he determines an appeal. The issue of Treasury bills to provide short-term finance for the Consolidated Fund is authorized, the authority to borrow on such bills from accounts outside the Public Account being new and limited to the amount of any overdraft outstanding. Transfers of surplus money in the Consolidated Fund to the Loans Redemption, National Development Loans, and Public Works Accounts, and the War Emergency Fund, are authorized. Provision is made for emergency expenditure to apply also to accounts outside the Public Account itself, while the Minister of Finance, after consultation with the Audit Office, is authorized to issue instructions to Departments on the issue and control of money appropriated by Parliament in regard to such accounts. Any unclaimed money in these accounts after six years will become payable to the Consolidated Fund. Securities may be taken in the name of the New Zealand Government.

Property Corporation, as well as in the name of Her Majesty the Queen. Other new provisions include the definition of "local authority," apply to local authorities those provisions as to appeals against surcharges, and remove the limitation of £1,000 on temporary advances to local authorities.

The New Zealand Loans Act 1953 consolidates the National Loans Act 1922 and its amendments, including the National Development Loans Act 1941. Various alterations are made to the existing law, but they are all of a minor character, consisting of the omission of provisions no longer necessary and of amendments designed to simplify the procedure in relation to Government loans. Several "authorizing Acts" under which loan authorities have not been fully exercised are repealed.

The Meat Amendment Act 1953 provides for the licensing by local authorities of meat canneries as from 30 June 1954, so as to make them subject to the provisions of the Meat Act 1939 relating to the proper construction and equipment of premises, inspection, and sanitary conditions. Licences must be granted for canneries in existence at the passing of the Act, and having satisfactory premises and equipment, so long as application is made before 31 May 1954. It also provides that deteriorated or adulterated meat is not to be canned; for the branding of canned meat as fit for human consumption, and for export, etc.; and for inspection of meat on the premises. Other provisions relate to inspectors under the principal Act, provide for the fixing of future dates by them for others prohibiting use of premises to take effect unless sooner remedied, etc., and for the provision of office and sanitary accommodation for the inspectors.

The State Advances Corporation Amendment Act 1953 enables the Corporation to give effect to the mortgage-guarantee scheme whereby the Corporation may guarantee to financial institutions repayment by the borrower of the difference between the normal loan and 90 per cent of the valuation. It empowers the Corporation to dispense with unnecessary formalities in relation to second mortgages in its own favour.

The Factories Amendment Act 1953 provides that the fees payable on annual registration of factories are to be prescribed by regulations under the principal Act.

The Milk Amendment Act 1953 gives further powers to the Central Milk Council, which is to be known as the New Zealand Milk Council, and which will have one additional member. The existing provision for the Department of Agriculture to be the agent of the Board in carrying out its functions is repealed, and the Board is given power to appoint its own staff, to operate the National Milk Scheme and, on behalf of the Crown, the milk-in-schools scheme, to operate treatment stations owned by the Crown, and to engage in other activities for the purpose of ensuring an adequate supply and efficient distribution of milk. The Board may impose a levy on milk, but while subsidies are payable this may only be made if the Minister of Agriculture approves. The Milk Industry Account replaces the Central Milk Council Account. Other provisions include the keeping of records in respect of treatment or production of milk, amendment of the provisions relating to the zoning of milk-roads, and validation of certain acts done in anticipation of the Act.

The Chattels Transfer Amendment Act 1953 provides that the principal Act is not to apply to securities granted by industrial and provident societies, and make it clear that an assignment of a customary hire-purchase agreement is valid without registration, notwithstanding that it involves an assignment of the chattels that are the subject of the agreement.

The Incorporated Societies Amendment Act 1953 provides that fees are to be prescribed by regulations, that a Society may make regulations or by-laws, and also prescribes a penalty for the improper use of the word "Incorporated."

The Births and Deaths Registration Amendment Act 1953 provides for the registration of changes of name and clarifies the law as to the power to change names by deed poll. Certified copies of birth certificates are to show only such particulars as are prescribed by regulations.

The Agricultural Emergency Regulations Confirmation Act 1953 validates and confirms certain regulations made under the authority of the Agriculture (Emergency Powers) Act 1934.

The Law Practitioners Amendment Act 1953 provides for admission fees and annual practising fees to be prescribed by regulations made by the Governor-General on the recommendation of the Council of the New Zealand Law Society, for the appointment of practising fees, and for the payment of a Court fee to be prescribed in a similar manner. The President of the New Zealand Law Society may be additional to members of the Council elected by Districts and Societies, and the consent of the New Zealand Law Society is also required for the formation of a new District Law Society. A quorum of the Disciplinary Committee for an interim suspension may be three, and such an order may be made without giving the practitioner a right to be heard. Also included are amended provisions relating to the signing and proving of orders of the Disciplinary Committee.

The Law Reform (Testamentary Promises) Amendment Act 1953 brings the limitation provisions of the 1949 Act into line with those in Part II of the Family Protection Act 1908 relating to the testator's family maintenance. It empowers the Supreme Court or a Judge to extend the time for commencing an action.

The Plumbers Registration Act 1953 consolidates the 1912 Act and its amendments. Definitions of Commonwealth country, Minister, and officer are made, national organizations substituted for federated associations, the qualifications of an Inspector of sanitary plumbing brought into line with requirements under the Health Act 1920, the period of apprenticeship altered from six years to 10,000 hours, and penalties raised to £20 and £50 for certain offences.

The Land Agents Act 1953 consolidates the law relating to the licensing of land agents. Amendments to the law include the necessity for a company itself to hold the licence; increasing the bond to £2,000; disqualifying persons under twenty-one years from holding a licence; enabling a licence to be transferred in the case of a holder who becomes mentally defective, or is the subject of a protection order under the Age and Infirm Persons Act 1912, or if the company goes into liquidation, and for the grant of a temporary licence in the former cases; and requiring the licensee to obtain the consent of a Magistrate before entering into a partnership with any other person. The grounds for cancellation of licences are extended to cases where the licensee enters into partnership without a Magistrate's consent, or knowingly employs a person convicted of certain offences, if he is adjudged bankrupt or makes an assignment, or if he fails to observe or comply with any requirement relating to his trust account, or the auditing of this; and, if a company, where the general manager is convicted of any offence specified, or is adjudged bankrupt, or makes an assignment for the benefit of his creditors. The Act also provides for a list of registered land agents. The Act also provides for a list of registered land agents to be gazetted annually.

The Kawerau and Maniapoto Townships Act 1953 provides for the establishment of local government in these townships. It provides for their constitution as boroughs or town districts, but the first election of members of the local authority may be postponed, and pending that election the districts will be administered by a Town Commissioner.

The Physiotherapy Amendment Act 1953 provides for the licensing of the use for physiotherapy purposes of ultrasonic therapy apparatus. The functions of the Physiotherapy Board are extended to include the giving of directions to the Registrar (now to be the Inspector of Physiotherapy in the Department of Health) with respect to the craft, renewal, suspension, and cancellation of such licences.

The Mining Amendment Act 1953 removes certain privileges acquired under a miner's right and provides that a water-race or tail-race licence may be granted for coal-mining purposes; Proclamations in respect of water-courses may be altered or revoked; no further grants of business-site or residence-site licences are made by the Warden; where grant of licence is subject to consent of the Minister, decision to grant is to be sent to the Under-Secretary forthwith; Inspectors of Mines are to have the powers of Inspectors of Machinery; the penalty for illegal mining is increased; the requirement to have a mining privilege for any person commencing a suit in the Warden's Court is repealed; mining privileges in respect of water may be acquired under the Public Works Act 1922, letting the former renewals provision; and the sections relating to mining privileges over land suitable for agriculture or affecting soil conservation or rivers control are amended.

The Licensing Amendment Act (No. 2) 1953 in Part I provides for special polls to be taken on the questions of licensing and Trust Control in the King-country (a three-fifths majority of all valid votes carries the proposal), and in certain areas in licensing districts where a protest, owing to past changes in electoral boundaries, is not lawful for licenses to be granted. Part II relates to winemakers' licences. There are to be two kinds, grape-wine and fruit-wine licences, which cannot both be held by one person. The right to blend wine is limited to the holders of grape-wine licences (i.e., grape-wine may not be blended with fruit or vegetable wine); no licences is to be granted unless premises and equipment for wine manufacture are suitable; and no grape-wine licence is to be granted unless a sufficient supply of grapes is available to the applicant to make the quantity specified in his application. Part III contains miscellaneous amendments. It empowers the Commission to conduct inquiries on matters referred to it by the Minister, and gives a right of appeal to the Supreme Court against the Commissioner's decisions to cancel licences considered unnecessary, an award of compensation for cancelled or surrendered licences, and on appeal against a direction of a Licensing Committee to a licensee to rebuild or repair premises where the cost will be £5,000 or more. The Act provides that any local authority or fifty or more electors may apply for the taking of a poll to determine whether a publican's licence should be authorized in the area, for the Commission to have a discretionary right to take such a poll, and for the Commission to have regard to the result of such a poll. Where the Commission has authorized a publican's licence, there is no right of objection to the Licensing Committee on the ground that the premises, etc., are not suitable for the purpose. The other functions are appointed between the Minister and the local authority. Rights of appeal are considered extended. There are various provisions relating to regional planning schemes and Regional Planning Authorities. District schemes are to take the place of the present town-planning schemes and extra-urban planning schemes, and the present provisions regarding betterment are omitted. Schemes may in future be prepared by sections according to territorial subdivisions or subject matters of planning, or both. This will enable matters of primary importance and simple matters to be dealt with in advance of sections that are more complex or less urgent. Machinery is provided for the alteration of schemes. District schemes must be reviewed at five-yearly, and regional schemes at ten-yearly, intervals.

The Town and Country Planning Act 1953 consolidates and amends the Town Planning Act 1926 and its amendments. It carries forward much of the existing legislation, but rearranges the present provisions and introduces a number of new principles and ideas for town planning as generally acceptable, but the existing machinery has not proved conducive to the completion of town-planning schemes; though the legislation has been in force for more than a quarter of a century, only seventeen out of about one hundred and fifty local authorities under an obligation to produce schemes have obtained final approval of their schemes. The object of the present Act is to encourage the production of town and country planning schemes, to secure the integration of schemes for adjoining districts, and to provide machinery which will enable schemes to be effective after they have been produced. In future the local authority is to be responsible for approving as well as preparing a planning scheme. The Town Planning Board is to disappear, and its functions in connection with appeals exercised by a special Town and Country Planning Board constituted under the local authority. Rights of appeal are considered extended. There are various provisions relating to regional planning schemes and Regional Planning Authorities. District schemes are to take the place of the present town-planning schemes and extra-urban planning schemes, and the present provisions regarding betterment are omitted. Schemes may in future be prepared by sections according to territorial subdivisions or subject matters of planning, or both. This will enable matters of primary importance and simple matters to be dealt with in advance of sections that are more complex or less urgent. Machinery is provided for the alteration of schemes. District schemes must be reviewed at five-yearly, and regional schemes at ten-yearly, intervals.

The Municipal Corporations Amendment Act 1953 amends provisions relating to the annual allowance to a Mayor, rent under renewal leases, width of private ways and streets, supply of water outside the borough, fire hydrants, and the stopping of streets. It empowers Councils to unite in the joint purchase, operation, and maintenance of plant and machinery, and to acquire land for subdivision on which there are existing buildings. It provides that Councils may delegate to committees powers conferred by other Acts, for an estimate of expenditure to be publicly notified four days before a general rate is made; that moneys in fire insurance fund may be applied to acquire other assets in place of those destroyed by fire; that Councils may require the removal of scrub, etc., likely to constitute a fire hazard; for registration of agreements for sale of houses purchased from Borough Councils and settlement as joint family homes; for scheme plans approved under the Land Subdivision in Counties Act 1946 to continue in force where the land is subsequently included in a borough; for a Council to recover expenses incurred in taking measures to secure safety of the public from dangerous buildings; for abandonment of coals between owners and lessees of providing fire escapes and safeguards; that parking places for vehicles plying for hire may be limited to particular persons; and among other provisions increase the penalty to £50 for a breach of by-laws, the minimum charge for water supply to £1, and the minimum levy under the annual drainage rate to £1.

The Land Subdivision in Counties Amendment Act 1953 applies the principal Act to subdivisions of land in dependent town districts. The Minister of Lands is to have the sole authority to dispense with preparation of scheme plans. Provision is made for appeals to be made to the Town and Country Planning Appeal Board, for appeals to lapse if the plan of subdivision is not deposited within two years, and for scheme plans to accord with district schemes under the Town and Country Planning Act 1953. A section widens the scope of those entitled to be heard on appeals and disputes. Crown land set aside may be sold on deferred payment, and the proceeds are to be applied for the benefit of the residents of the county. Provisions amended deal with roads, rights of way, access ways and service lanes, reserves along seashores and banks of rivers, lakes, etc., the setting-aside of reserves, the area to be set aside as Crown land, and the Minister's power to refuse approval of reserves to be set aside.

The Maori Affairs Act 1953 consolidates and amends the law relating to Maori land and also consolidates and amends certain provisions of the law relating especially to Maoris. The Act was a revised version of the Bill introduced earlier in the session, owing partly to the fact that a consolidating and amending Maori Trustee Bill was prepared, but more particularly to the fact that a new approach was made to solution of the problem presented by "uneconomic interests" in Maori freehold land. The disposal of these interests is left to a large extent to the discretion of the Maori Land Court, and only those interests that cannot be otherwise satisfactory dealt with will be vested in the Maori Trustee. The Act is not a comprehensive code of the law as it affects Maoris—e.g., taxation and other matters are dealt with in the appropriate statutes for the population as a whole, while enactments relating to Tribal Executives and Tribal Committees, and dealing with the social conditions of the Maori people, together with matters affecting the Maori Trustee and Maori housing, are provided in separate statutes. It is not possible to summarize in this context every change that the Act makes in the law, since much of the existing law was in a chaotic condition, entailing much rewriting of the law.

The Maori Trustee Act 1953 forms part of the plan for the consolidation of the law relating particularly to Maoris and to Maori land. The purposes of the Act are to consolidate the law and to bring the expression of it into harmony with the language of the Maori Affairs Act 1953, to adapt the powers formerly possessed by Maori Land Boards to suit the conditions of the Maori Trustee, and to make certain amendments to the existing law. The Maori Trustee's Account is divided into (1) the Common Fund, (2) special Investment Accounts held for depositors who stipulate that their moneys shall not form part of the Common Fund, (3) the Conversion Fund proposed to be established under Part XIII of the Maori Affairs Act, and (4) a General Purpose Fund, into which are to be paid all moneys not made payable into any of the other funds. Guarantee provisions are limited to the Common Fund as above. Other new provisions deal with the disposal of unclaimed moneys in the Common Fund, empower the Trustee to acquire and dispose of lands as sites for Maori dwellings, and provide that the Court may direct payment to the Maori Trustee of compensation for land taken under the Public Works Act 1928.

The Selwyn Plantation Board Act 1953 provides for the constitution of the Selwyn Plantation Board, and prescribes its powers and functions, and consolidates the various enactments dealing with Selwyn plantation reserves.

The Emergency Regulations Amendment Act 1953 continues certain emergency regulations in force until the end of 1954—namely, Coal Mines Council (1940); Earthquake Damage (1942); Emergency Regulations Revocation Orders (1945), and No. 7 (1947); Enemy Property (1939); Finance (1940); Local Authorities (Temporary Housing) (1944); Patents, Designs, Trade Marks, and Copyright (1940); and Soldiers' Wills (1939). Certain amendments to these regulations are also retained in force.

The Fire Services Amendment Act 1953 amends the principal Act in several respects. An insurance company is to include one carrying on motor insurance business. Other sections increase the amounts of annual expenditure before the Council is required to report to the Minister; enable the Council to provide buildings, plant, and equipment for the use of any local authority for fire in rural fire-protection schemes; amend the provisions relating to the constitution, boundaries, and abolition of districts; provide for the constitution of an Urban Fire Authority for districts which have no constituent local authority, and for by-laws to be made providing for fees for services by fire brigades other than for fire fighting or prevention; provide for the protection by Urban Fire Authorities of property outside their districts, for brigade auxiliary units, for damage in fire fighting to be deemed damage by earthquake fire in certain cases, and for the inclusion of certain additional items in annual estimates of expenditure of the Council or Urban Fire Authority; remove the population restriction on assistance to secondary urban fire districts, and amend the provisions relating to contributions to the Council, and the amount of annual payment to Urban Fire Authorities of secondary urban fire districts; enable local authorities to use ordinary rating rolls for levying rates of contribution; and authorize the establishment of reserve funds by the Authority for a secondary urban fire district.

The Building Emergency Regulations Act 1953 repeats the Supply Regulations Act 1947 and makes temporary provision (until the end of 1954) for the making of building emergency regulations for the maintenance, control, and regulation of building supplies and services. The existing Building Emergency Regulations 1939 and amendments, and the Supply Control Emergency Regulations 1939 and amendments, are continued in force.

The Courts-martial Appeals Act 1953 provides for the establishment of a Court of Appeal for the Navy, Army, and Air Force, to which every person convicted by a Court-martial may, with the leave of the Court, appeal against his conviction. There will be no appeal against sentence, but the Act preserves the Royal prerogative of mercy, under which the sentence may be mitigated or remitted or a free pardon may be granted, whether the convicted person appeals to the Court against the conviction or not. The Act also preserves all existing provisions of the Army Act 1950 days before a general rate is made; that moneys in fire insurance fund may be applied to acquire other assets in place of those destroyed by fire; that Councils may require the removal of scrub, etc., likely to constitute a fire hazard; for registration of agreements for sale of houses purchased from Borough Councils and settlement as joint family homes; for scheme plans approved under the Land Subdivision in Counties Act 1946 to continue in force where the land is subsequently included in a borough; for a Council to recover expenses incurred in taking measures to secure safety of the public from dangerous buildings; for abandonment of coals between owners and lessees of providing fire escapes and safeguards; that parking places for vehicles plying for hire may be limited to particular persons; and among other provisions increase the penalty to £50 for a breach of by-laws, the minimum charge for water supply to £1, and the minimum levy under the annual drainage rate to £1.

The Electoral Amendment Act 1953 provides that alteration of boundaries of Maori electoral districts are to take effect on the expiry of the existing Parliament, amends the provisions relating to the electoral rights of members of the Executive Council, the signing and witnessing of applications for registration, the time for closing of nominations as candidates to between twenty and twenty-seven days before polling day, and the time for return of a writ to fifty days, and extends the duration of the present Parliament to 6 November 1954, unless dissolved sooner.

The Geothermal Energy Act 1953 consolidates and amends the Geothermal Steam Act 1952. The new Act relates to all geothermal energy, vests in the Crown the sole right to tap, take, use, and apply geothermal energy for every purpose, provides for licences to use geothermal energy to be required in all cases, and that compensation is not payable except where the existence of geothermal energy is of actual benefit to the owners. The Act gives power to take land for a private industrial undertaking which will use geothermal energy where it is shown that the undertaking is of national importance and that it should be located within a specified area where supplies of such energy are available so as to secure the best prospects of successful operation. The Crown is given power to charge a rental for the use of geothermal energy for industrial or commercial purposes. The Minister is enabled to require the closing of bores. Extensive powers to prescribe safety precautions by regulations are given.

The Licensing Trusts Amendment Act 1953 provides for all members to receive travelling expenses, but only the Chairman is to receive remuneration; authorizes Trusts to bank with any bank, and to contribute to the National Provident Fund or other funds to provide superannuation for their employees. A local licensing Trust may also hold more than one licence under the Licensing Act 1908.

The Waters Pollution Act 1953 in Part I establishes a Pollution Advisory Council and prescribes its powers and functions, and in Part II makes general provisions designed to prevent or mitigate the pollution of waters. Several existing Acts deal with the pollution of waters, but those Acts are concerned either with specific matters such as the prevention of the discharge of oil in territorial waters, the protection of fisheries, or the ensuring of pure water

for domestic uses. Other Acts authorize the making of by-laws or rules operating only in the District of the authority by which these are made. There has been no general legislation preserving the rights of the public to the enjoyment of waters free from pollution, nor has there been general legislation which provides adequately for the reduction of pollution by encouraging diversion of trade wastes to sewers of local authorities.

The Coal Mines Amendment Act 1953 makes miscellaneous amendments to the principal Act. Part I includes the following: authorizes coal mining leases in existence on the commencement of the Coal Act 1948 to be renewed; only prescribed particulars relating to applications for coal mining rights are to be advertised in the Press; gives Inspectors of Coal Mines the same powers in respect of machinery in coal mines as Inspectors under the Machinery Act 1950; provides for the setting-apart of State forest land for the purposes of State coal mines and for advances to employees of State coal mines for housing purposes; makes notifiable all accidents in mines rendering a workman unfit for work. Part II creates a new fund to be called the Coal Mining Districts Welfare and Research Fund, into which will be paid a levy at the rate of 6d. a ton on coal other than lignite and 4½d. per ton for lignite. This fund will be used for coal miners' relief, provision of amenities, establishment and maintenance of rescue stations, research, and generally for the benefit of the industry. Payments will be made on the direction of the Coal Mining Districts Welfare and Research Council or the Local Committee (in relief cases).

The Local Legislation Act 1953 confers certain powers on certain public bodies and validates certain transactions.

The Reserves and Other Lands Disposal Act 1953 provides for the sale, reservation, and other disposition of certain reserves, Crown lands, endowment, and other lands, validates certain transactions, and makes provision in respect of certain other matters.

The Motor Spirits Distribution Act 1953 provides for the equitable distribution of motor spirits and for the maintenance of the economic welfare of persons engaged in sale of motor spirits. It also contains provisions designed to encourage independent and competitive trade in the motor spirits industry. For these purposes the Act in Part I establishes a Motor Spirits Licensing Authority, and in Part II provides for the licensing of persons who are engaged in the business of selling motor spirits, whether as retailers or as wholesalers. On the commencement of the Act the regulations made under the Industrial Efficiency Act 1936, by which licensing is at present authorized, will be revoked. Part III provides for appeals from decisions of the Licensing Authority to the Motor Spirits Licensing Appeal Authority, consisting of one person having the qualifications for appointment as a Judge of the Supreme Court. Part IV contains provisions relating to administration.

The Gaming Amendment Act 1953 amends search warrant provisions to enable the seizure of things that are evidence of the commission of offences, and provides for their later destruction. The maximum penalty for bookmaking is a fine of £500 or one month's imprisonment for the first offence, three months' imprisonment for the second, and twelve months' imprisonment for a third offence. The right of entry and inspection, and to demand information at any time before, during, or after a race meeting to require steps to be taken to ensure proper working of the totalizator, are conferred on Totalizator Inspectors. Additional days on which totalizator licences may be granted are increased to twenty-three, no licence may be granted except for Saturdays or public holidays unless the Minister considers it expedient, and the provisions as to the conditions of such licences are amended. The levy of a 4 per cent on totalizator investments is to be continued after 1 November 1955, but is payable to the New Zealand Racing and Trotting Conferences respectively, which may use the money solely to provide, maintain, and replace amenities for the public and course improvements. Betting by minors at totalizator agencies or on the totalizator is prohibited. Power is given to make regulations for the licensing and regulating of totalizator agencies.

The Local Government Commission Act 1953 provides a new procedure for the amalgamation and reorganization of the districts of local authorities in place of that provided in the Local Government Commission Act 1946, which the Act replaces. The Local Government Commission is reconstituted to comprise three members, one of whom is to be Chairman and the other two appointed from a panel nominated by the various local body associations. Except on the ground of lack of jurisdiction, no proceedings or decisions of the Commission may be questioned in any Court, but there is a right of appeal to the Local Government Appeal Authority. No person is to be appointed as the Appeal Authority unless he possesses the qualifications required for appointment as a Judge of the Supreme Court. For a more detailed review of the provisions of the Act, refer to page 743.

The Primary Products Marketing Regulations Confirmation Act 1953 validates and confirms regulations made under authority of the principal Act.

The Maori Purposes Act 1953 provides for the winding-up of the East Coast Maori Trust and amends the law relating to Maoris and Maori land, confers jurisdiction upon the Maori Land Court, etc.

The Land and Income Tax Amendment Act (No. 2) 1953 provides that a farmer may make deposits with the Commissioner of Inland Revenue to provide a reserve for making good any losses of livestock or income resulting from snow. A Snow Loss Reserve Committee is to be set up to approve refunds of deposits for the purpose of making good any snow losses. In Part II the classes of payments included in assessable income are to include all classes of royalties. The operation of section 16 of the 1951 amendment Act is limited by excluding *bona fide* contracts of employment or partnership. Other sections provide for the deduction from estate income of irrecoverable book debts of a deceased taxpayer; mining companies to be subject to section 97 of the principal Act after ceasing mining operations; separate trusts to be treated as one trust in certain cases; define when a company is under the control of any persons; limit the meaning of the expression "dividends"; and re-enact with amendments the provisions under which the income of proprietary companies is in certain cases assessable as income of the shareholders.

The Social Security Amendment Act 1953 alters the due dates of payment of the charge on income other than salary or wages to 7 June and 7 November respectively; repeats subsection (6) of section 125 of principal Act; extends the period for setting off losses against subsequent income to the six following years; amends the provisions regarding the social security charge payable on overseas income of insurance companies; and provides that all health benefits except pharmaceutical cannot be claimed as of right if and so far as the injured person is entitled to workers' compensation or special damages in respect of the same matter.

The Finance Act (No. 2) 1953 in Part I makes permanent provision for the supplementation of war service gratuities up to a maximum of £200 in the cases of totally disabled war pensioners and in the case of deceased servicemen, with a proportionate amount in the case of a partially disabled pensioner, and extends the provision to cover service in Korea. The Act also validates the transfer to the Canteen Fund of New Zealand's share of the profits of the British Commonwealth Occupation Forces Canteen Service, excess unauthorized expenditure by Government Departments, increased Magistrates' travelling allowances paid in anticipation of regulations, and the loan by the Meat Producers Board for preliminary expenses of the Southland Farmers' Freezing Company, Ltd. It abolishes separate statements of land settlement accounts as to marginal lands, authorizes payments as approved by the Minister after consultation with representatives of the industries concerned from other accounts kept under the Marketing Act as well as the Marketing Account, and amalgamates the Bobby Calf Pool Account and the Bobby Calf Stabilization Account to form the Bobby Calf Industry Reserve Account. Part II makes provision for the registration of easement certificates in connection with the sale of State houses and prescribes the effect of such certificates. Part III validates expenditure by local authorities in farewelling Their Excellencies Lord and Lady Freyberg and in welcoming Their Excellencies Sir Willoughby and Lady Norrie, and allows £250 per annum as unauthorized expenditure by the Auckland Harbour Bridge Authority. Part IV provides for the closure of bank premises for lunch where staff does not exceed five, that cheques, etc., may be destroyed by banks after seven years, that the Tenancy Act 1948 is not to apply to the letting of dwellingshouses for the duration of the Royal Tour, etc.

The Transport Amendment Act 1953 removes the limit on heavy-traffic licence fees that may be fixed by regulations; empowers the Transport Licensing Authority to authorize the licensee to suspend or curtail services; amends registration, licensing, and other fees; provides for registration, licensing, and heavy-traffic licence fees and motor-spirits tax and mileage-tax receipts to be paid into the National Roads Fund; repeats provisions as to extraordinary traffic; amends the provisions as to refunds of motor-vehicles tax and as to the stopping of certain vehicles at railway crossings; and provides for the Crown to be liable for heavy-traffic fees.

The Control of Prices Amendment Act 1953 provides that the Price Tribunal may make Price Orders without the authority of the Minister; authorizes the publication of a list of all goods subject to price control, and provides that any goods not referred to in the list will be exempt from control; and authorizes a delegation of the powers of the Tribunal to the Secretary of the Department of Industries and Commerce, or other person approved in that behalf by the Minister.

The National Roads Act 1953 replaces the Main Highways Act 1922 and its amendments, and gives effect to certain recommendations of the Roading Investigation Committee. The Act (a) establishes a National Roads Board to take over the functions of the former Main Highways Board, (b) provides for District Roads Councils to perform the functions of the former District Highways Councils, with additional functions in relation to roading requirements and standards of the various local authorities (including boroughs) within their districts, (c) provides for the Board to have functions in relation to the maintenance of roads other than main highways in the districts of local authorities, (d) makes an increased and automatic allocation of moneys to be expended for roading purposes, including automatic payment to the Fund of all motor-spirits tax, mileage tax, motor registration and licensing fees, heavy-traffic fees, tire duty, and for an annual payment from the Consolidated Fund of £1,000,000, and (e) provides for automatic allocation of funds to local authorities for roading purposes, the allocation to boroughs and independent town districts being calculated on a population basis, and those to counties and road districts being based on general rates and special rates and provided for them. (For further details refer to Section 14.)

The Waterfront Industry Act 1953 makes statutory provisions for the waterfront industry and replaces the Waterfront Industry Emergency Regulations 1946. In accordance with recommendations made by the Royal Commission of Inquiry into the industry, the Act provides for the continuance of the existing Waterfront Industry Commission and Waterfront Industry Tribunal, and in other respect follows closely the provisions of the former regulations. The Act also continues the former Port Conciliation Committees, and in addition provides for the appointment of Combined Committees consisting of the several Committees for any one port, and for National Conciliation Committees. Provision is also made for a National Amenities Committee and Port Amenities Committees, with functions in relation to the provision of amenities for waterside workers. Provision is also made for the distribution among union and non-union workers of the money held in the Commission's co-operative contract fund as at 31 March 1951. The Act came into force on 1 January 1954.

The Offences at Sea Act 1953 amenders the existing legislation as to the jurisdiction exercisable by Courts in New Zealand in respect of offences committed on ships on the high seas or on ships within the territorial waters of New Zealand or of other countries. The Act does not make any significant change regarding liability for offences committed at sea. The Act makes New Zealand legislation applicable in three main classes of case—(i.e., (a) offences committed in New Zealand territorial waters; (b) offences committed by New Zealand citizens on any ships abroad, and offences committed by persons of any nationality on New Zealand ships abroad; and—(c., (c) offences committed by other British subjects on any ships, and offences committed by other British subjects on ships belonging to Commonwealth countries other than New Zealand.

The Industrial Conciliation and Arbitration Amendment Act 1953 provides that an award is not to be made affecting any Hospital Board employees of a class whose conditions of employment are now fixed by or under regulations under the Hospitals Act 1926, unless a majority of all the employees of that class vote by secret ballot in favour of having these conditions fixed by an award. It also provides that an industrial agreement is to have no effect without the concurrence of the Minister of Health where a majority of the workers affected are Hospital Board employees, or where the agreement affects any such employees whose conditions of employment are now fixed by regulations under the Hospitals Act 1926.

Chapter 45. SECTION 45—OFFICIAL

Table of Contents

[GOVERNOR-GENERAL OF NEW ZEALAND](#)

[SUCCESSIVE MINISTRIES AND PREMIERS](#)

[MEETING OF THE PRIVY COUNCIL](#)

[EXECUTIVE COUNCIL, FEBRUARY 1954](#)

[HOLLAND MINISTRY, FEBRUARY 1954](#)

[PARLIAMENTARY UNDER SECRETARIES, FEBRUARY 1954](#)

[PARLIAMENTARY SESSIONS](#)

[HOUSE OF REPRESENTATIVES](#)

[JUDICIARY](#)

[HONOURS](#)

[CIVIL DIVISION](#)

[MILITARY DIVISION](#)

[SPECIAL OPERATIONAL AWARDS](#)

[ROYAL TOUR HONOURS LIST](#)

[AWARDS](#)

[CIVIL DIVISION](#)

[GOVERNMENT DEPARTMENTS](#)

[THE PUBLIC SERVICE](#)

[NEW ZEALAND REPRESENTATIVES OVERSEAS](#)

[OVERSEAS REPRESENTATIVES IN NEW ZEALAND](#)

GOVERNOR-GENERAL OF NEW ZEALAND

His Excellency Lieutenant-General Sir Charles Willoughby Moke NORRIE, G.C.M.G., G.C.V.O., C.B., D.S.O., M.C.

Military Secretary—Major M. A. T. Transtener, C.V.O., 4th/7th Royal Dragoon Guards.

Official Secretary—D. E. Foully, Esq., C.V.O., C.B.E.

Aides-de-Camp—Lieutenant A. C. Campbell-Harris, R.N.; Captain I. N. E. Bruce, 11th Hussars.

Honorary Aides-de-Camp—

Naval: Commander R. E. Harding, O.B.E., V.R.D., R.N.Z.N.; Lieutenant-Commander R. A. C. Cheyne, R.N.Z.N.; Lieutenant-Commander G. M. Holden, R.N.Z.N.

Military: Lieutenant-Colonel J. B. Horrocks, R.N.Z.A.; Lieutenant-Colonel J. Brooke-White, O.B.E., R.N.Z.E.; Lieutenant-Colonel T. B. Morten, D.S.O., E.D., R.N.Z. Infantry; Lieutenant-Colonel B. C. MacAvoy, E.D., R.N.Z.A.

Air: Squadron Leader J. R. Court, D.F.C., T.A.F.; Wing Commander A. S. Agar, A.F.C., R.N.Z.A.F.; Squadron Leader L. H. Edwards, R.N.Z.A.F.; Squadron Leader T. A. McL. Morgan, A.F.C., R.N.Z.A.F.

Honorary Physician—Surgeon-Commander D. R. Goodfellow, V.R.D., M.A., M.D., Ch.B., M.R.C.S., L.R.C.P., R.N.Z.N.V.R.

Honorary Surgeon—Lieutenant-Colonel F. L. Hutter, M.B., Ch.B., F.R.C.S.(Eng.), F.R.A.C.S., R.N.Z.A.M.C.

(His Excellency assumed office on 2 December 1952.)

For details of previous vice-regal representatives reference should be made to various issues of the Year-Book, while a complete list of the earlier vice-regal representatives will be found in the 1931 issue (pp. 59-60).

SUCCESSIVE MINISTRIES AND PREMIERS

SINCE THE ESTABLISHMENT OF RESPONSIBLE GOVERNMENT IN NEW ZEALAND IN 1856

Name of Ministry	Name of Premier	Assumed Office	Retired
1. Bell-Sewell	Henry Sewell	7 May 1856	20 May 1856
2. Fox	William Fox	20 May 1856	2 June 1856
3. Stafford	Edward William Stafford	2 June 1856	12 July 1861
4. Fox	William Fox	12 July 1861	6 Aug. 1862
5. Domett	Alfred Domett	6 Aug. 1862	30 Oct. 1863
6. Whitaker-Fox	Frederick Whitaker	30 Oct. 1863	24 Nov. 1864
7. Weld	Frederick Aloysius Weld	24 Nov. 1864	16 Oct. 1865
8. Stafford	Edward William Stafford	16 Oct. 1865	28 June 1869
9. Fox	William Fox	28 June 1869	10 Sept. 1872
10. Stafford	Edward William Stafford	10 Sept. 1872	11 Oct. 1872
11. Waterhouse	George Marsden Waterhouse	11 Oct. 1872	3 Mar. 1873
12. Fox	William Fox	3 Mar. 1873	8 April 1873
13. Vogel	Julius Vogel, C.M.G.	8 April 1873	6 July 1875
14. Pollen	Daniel Pollen, M.L.C.	6 July 1875	15 Feb. 1876
15. Vogel	Sir Julius Vogel, K.C.M.G.	15 Feb. 1876	1 Sept. 1876
16. Atkinson	Harry Albert Atkinson	1 Sept. 1876	13 Sept. 1876
17. Atkinson (reconstituted)	Harry Albert Atkinson	13 Sept. 1876	13 Oct. 1877
18. Grey	Sir George Grey, K.C.B.	15 Oct. 1877	8 Oct. 1879
19. Hall	John Hall	8 Oct. 1879	21 April 1882
20. Whitaker	Frederick Whitaker, M.L.C.	21 April 1882	25 Sept. 1883
21. Atkinson	Harry Albert Atkinson	25 Sept. 1883	16 Aug. 1884
22. Stout-Vogel	Robert Stout	16 Aug. 1884	28 Aug. 1884
23. Atkinson	Harry Albert Atkinson	28 Aug. 1884	3 Sept. 1884
24. Stout-Vogel	Sir Robert Stout, K.C.M.G.	3 Sept. 1884	8 Oct. 1887
25. Atkinson	Sir Harry Albert Atkinson, K.C.M.G.	8 Oct. 1887	24 Jan. 1891
26. Ballance	John Ballance	24 Jan. 1891	1 May 1893
27. Seddon	Rt. Hon. Richard John Seddon	1 May 1893	21 June 1906
28. Hall-Jones	William Hall-Jones	21 June 1906	6 Aug. 1906
29. Ward	Rt. Hon. Sir Joseph George Ward, Bart., K.C.M.G.	6 Aug. 1906	28 Mar. 1912
30. Mackenzie	Thomas Mackenzie	28 Mar. 1912	10 July 1912
31. Massey	Rt. Hon. William Ferguson Massey	10 July 1912	12 Aug. 1915
32. National	Rt. Hon. William Ferguson Massey	12 Aug. 1915	25 Aug. 1919
33. Massey	Rt. Hon. William Ferguson Massey	25 Aug. 1919	14 May 1925
34. Bell	Hon. Sir Francis Henry Dillon Bell, G.C.M.G., K.C.	14 May 1925	30 May 1925
35. Coates	Rt. Hon. Joseph Gordon Coates, M.C.	30 May 1925	10 Dec. 1928
36. Ward	Rt. Hon. Sir Joseph George Ward, Bart., G.C.M.G.	10 Dec. 1928	28 May 1930
37. Forbes	Rt. Hon. George William Forbes	28 May 1930	22 Sept. 1931
38. Coalition	Rt. Hon. George William Forbes	22 Sept. 1931	6 Dec. 1935
39. Labour	Rt. Hon. Michael Joseph Savage	6 Dec. 1935	1 April 1940
40. Labour	Hon. Peter Fraser	1 April 1940	30 April 1940
41. Labour	Rt. Hon. Peter Fraser, C.H.	30 April 1940	13 Dec. 1949

Name of Ministry	Name of Premier	Assumed Office	Retired
42. Holland	Rt. Hon. Sidney George Holland, C.H.	13 Dec. 1949	

MEETING OF THE PRIVY COUNCIL

At the Court at Government House, Wellington, 13 January 1954. Her Majesty the Queen was pleased to hold a Council at 11.30 a.m.

There were present:

His Royal Highness the Duke of Edinburgh, K.G., K.T.

The Right Honourable Sidney George Holland, C.H., M.P. (Prime Minister; acting for the Lord President).

The Right Honourable Walter Nash, M.P. (Leader of Her Majesty's Opposition).

The Right Honourable Sir William Joseph Jordan, K.C.M.G.

The Right Honourable Sir Michael Edward Adcane, K.C.V.O., C.B.

The Honourable Keith Jacka Holyoake, M.P. (Deputy Prime Minister and Minister of Agriculture), and the Honourable Sir Harold Eric Barrowclough, K.C.M.G., C.B., D.S.O. M.C. (Chief Justice of New Zealand), were sworn of Her Majesty's Most Honourable Privy Council and took their places at the Board accordingly.

Mr. T. J. Sherrard, Esq., O.B.E., was in attendance as Acting Clerk of the Council in Ordinary.

EXECUTIVE COUNCIL, FEBRUARY 1954

His Excellency the GOVERNOR-GENERAL

Rt. Hon. S. G. HOLLAND, C.H., Prime Minister, Minister of Finance, and Minister in Charge of Legislative and Audit Departments.

Rt. Hon. K. J. HOLYOAKE, Deputy Prime Minister, and Minister of Agriculture.

Hon. W. SULLIVAN, Minister of Labour, Minister of Employment, Minister of Mines, Minister of Immigration, and Minister of Housing.

Hon. T. C. WEBB, Attorney-General, Minister of Justice, Minister of External Affairs, Minister of Island Territories, and Minister in Charge of Prisons, Patents Office, the Registrar-General's Office, and the Electoral Office.

Hon. R. M. ALGIE, Minister of Education, and Minister in Charge of Broadcasting, and of Scientific and Industrial Research.

Hon. Sir William Alexander BODKIN, Minister of Internal Affairs, Minister of Social Security, and Minister in Charge of Tourist and Publicity.

Hon. C. M. BOWDEN, Minister of Works, Minister in Charge of Inland Revenue Department, and Associate Minister of Finance.

Hon. W. J. BROADFOOT, Postmaster-General and Minister of Telegraphs, and Minister in Charge of Valuation and Government Printing and Stationery Departments.

Hon. E. B. CORBETT, Minister of Lands, Minister of Forests, Minister of Maori Affairs, and Minister in Charge of Maori Trust Office, and of Scenery Preservation.

Hon. W. S. GOOSMAN, Minister of Works, Minister of Railways, Minister of Transport, Minister of Marine, and Minister in Charge of State Hydro-electric Department.

Hon. T. L. MACDONALD, Minister of Defence (Navy, Army, and Air), Minister of Rehabilitation, and Minister in Charge of War Pensions and of Civil Aviation.

Hon. J. T. WATTS, Minister of Industries and Commerce, Minister of Supply, and Minister in Charge of Import Control.

Hon. J. R. MARSHALL, Minister of Health, Minister Assisant to the Prime Minister, and Minister in Charge of State Advances Corporation, Census and Statistics Department, Public Trust Office, and Publicity, and Information.

Hon. W. H. FORTUNE, Minister Assistant to the Prime Minister, and Minister in Charge of Police, State Fire Insurance Office, Government Life Insurance Department, Government Superannuation Fund, Fri Societies, and National Provident Fund Departments.

Hon. GRACE H. ROSS, Minister for the Welfare of Women and Children.

Clerk of the Executive Council—T. J. Sherrard, O.B.E., M.S.M., J.P.

HOLLAND MINISTRY, FEBRUARY 1954

(Assumed Office, 13 December 1949)

Name and Office	From	To
Rt. Hon. Sidney George Holland, C.H.—		
Prime Minister	13 December 1949	
Minister of Finance	13 December 1949	
Rt. Hon. Keith Jacka Holyoake—		
Minister of Agriculture	13 December 1949	
Minister of Marketing	13 December 1949	30 April 1953
Hon. William Sullivan—		
Minister of Labour	13 December 1949	
Minister of Employment	13 December 1949	
Minister of Mines	13 December 1949	
Minister of Immigration	13 December 1949	
Hon. Thomas Clifton Webb—		
Attorney-General	13 December 1949	
Minister of Justice	13 December 1949	
Minister of External Affairs	19 September 1951	
Minister of Island Territories	19 September 1951	
Hon. Ronald Macmillan Algie—		
Minister of Education	13 December 1949	
Hon. Sir William Alexander Bodkin—		
Minister of Internal Affairs	13 December 1949	
Minister of Social Security	19 December 1950	
Hon. Charles Moore Bowden—		
Minister of Customs	13 December 1949	
Minister of Industries and Commerce	13 December 1949	19 December 1950
Minister of Stamp Duties	13 December 1949	1 November 1952
Minister of Supply	13 December 1949	19 December 1950
Hon. Walter James Broadfoot—		
Postmaster-General	13 December 1949	
Minister of Telegraphs	13 December 1949	
Hon. Ernest Bowyer Corbett—		

* Appointed High Commissioner for New Zealand at London on 1 September 1951; deceased 26 May 1954.

Name and Office	From	To
Minister of Lands	13 December 1949	
Minister of Forests	13 December 1949	
Minister of Maori Affairs	13 December 1949	
Hon. Sir Frederick Widdowson Doidge*—		
Minister of External Affairs	13 December 1949	31 August 1951
Minister of Island Territories	13 December 1949	31 August 1951
Hon. William Stanley Goosman—		
Minister of Works	13 December 1949	
Minister of Transport	13 December 1949	
Minister of Railways	13 December 1949	
Minister of Marine	13 December 1949	
Hon. Thomas Laclan Macdonald—		
Minister of Defence	13 December 1949	
Minister of Rehabilitation	13 December 1949	
Hon. Jack Thomas Watts—		
Minister of Social Security	13 December 1949	19 December 1950
Minister of Health	13 December 1949	19 September 1951
Minister of Industries and Commerce	19 December 1950	
Minister of Supply	19 December 1950	
Hon. John Ross Marshall—		
Minister of Health	19 September 1951	

* Appointed High Commissioner for New Zealand at London on 1 September 1951; deceased 26 May 1954.

PARLIAMENTARY UNDER-SECRETARIES, FEBRUARY 1954

SIDNEY WALTER SMITH, M.P., Parliamentary Under-Secretary in relation to the office of the Minister of Agriculture. (Appointed 13 December 1949.)

WILLIAM ALFRED SHEAT, M.P., Parliamentary Under-Secretary in relation to the office of the Minister of Works. (Appointed 13 December 1949.)*

EDGAR ROLLO NEALE, O.B.E., M.P., Parliamentary Under-Secretary in relation to the offices of the Minister of Customs, the Minister of Industries and Commerce, and to the Minister in Charge of the Inland Revenue Department. (Appointed 30 March 1950.)

* Resigned 14 May 1954.

PARLIAMENTARY SESSIONS

[For earlier Parliaments and sessions refer to pp. 59–60 of the 1930 and p. 986 of the 1940 editions of the Year-Book. On some occasions there have been long adjournments during sessions, without Parliament being prorogued.]

Parliament	Dates of Opening of Sessions	Dates of Prorogation	Dates of Dissolution
	23 February 1932	11 May 1932	
	22 September 1932	31 March 1933	
Twenty-fourth	21 September 1933	22 December 1933	1 Nov. 1935
	28 June 1934	16 April 1935	
	29 August 1935	29 October 1935	
	25 March 1936	31 October 1936	
Twenty-fifth	9 September 1937	16 March 1938	20 Sept. 1938
	28 June 1938	19 September 1938	
	27 June 1939	1 February 1940	
	30 May 1940	16 December 1940	
Twenty-sixth	12 March 1941	29 October 1941	30 Aug. 1943
	11 December 1941	14 December 1942	
	23 February 1943	27 August 1943	
	22 February 1944	15 December 1944	
Twenty-seventh	27 June 1945	7 December 1945	4 Nov. 1946
	26 June 1946	12 October 1946	
	24 June 1947	1 December 1947	
Twenty-eighth	22 June 1948	8 December 1948	23 Nov. 1949
	28 June 1949	26 October 1949	
	27 June 1950	6 December 1950	
Twenty-ninth	26 June 1951	18 July 1951	27 July 1951
	25 September 1951	12 December 1951	
	25 June 1952	30 October 1952	
Thirtieth	8 April 1953	24 December 1953	
	12 January 1954	14 January 1954	
	22 June 1954		

HOUSE OF REPRESENTATIVES

ROLL OF MEMBERS OF THE HOUSE OF REPRESENTATIVES, FEBRUARY 1954

Speaker—Hon. Sir MATTHEW ORAM, M.B.E. Chairman of Committees—CYRIL GEOFFREY EDMUND HARKER. Clerk of the House—H. N. DOLLIMORE, LL.B.

Name	Electoral District	Name	Electoral District
<i>For European Electorates</i>		<i>For European Electorates—ctd.</i>	
Aderman, Ernest Philip*	N. Plymouth.	Macfarlane, Robert Mafeking.	Chrischurch
Algie, Hon. Ronald Macmillan*	Remuera.	C.M.G.	Central.
Anderton, William Theophilus	Auckland.	McKeen, Robert	Island Bay.
	Central.	McLagan, Hon. Angus	Riccarton.
Barnes, James George, M.B.E.*	St. Kilda.	McMillan, Mrs Ethel Emma	North
Bodkin, Hon. Sir William			Dunedin.

* Government member.

† Deceased 12 June 1954; May, Henry Leonard James, elected 31 July 1954.

‡ Resigned 14 May 1954; re-elected 31 July 1954.

Name	Electoral District	Name	Electoral District
Alexander, K.C.V.O. [‡]	Central Otago	Maher, James Joseph [†]	Otagi
Bowden, Hon. Charles Moore [*]	Karori	Marshall, Hon. John Ross [†]	Mount
Broadfoot, Hon. Walter James [*]	Waikato		Victoria
Carr, Rev. Clyde Leonard	Timaru	Mason, Hon. Henry Greathead	
Chapman, Charles Henry	Wellington	Rex, Q.C.	Waikare.
	Central	Massey, John Norman	Franklin.
Combs, Harry Ernest [†]	Otago	Mathison, John	Avon.
Conolly, Phillip George, D.S.C.	Dunedin	Moohan, Michael	Petone.
	Central	Murdoch, Alfred James [*]	Marsden.
Cooksley, Bertie Victor, M.M. [*]	Wairarapa	Nash, Rt. Hon. Walter	Hutt.
Corbett, Hon. Ernest Bowyer [*]	Egmont	Neale, Edgar Rolfo, O.B.E. [†]	Nelson.
Cotterill, Joseph Bernard Francis		Nordmeyer, Hon. Arnold	
	Wanganui	Henry	Brooklyn.
Dudfield, Harry [*]	Gisborne	Oram, Hon. Sir Matthew, M.B.E. [*]	
Eyre, Dean Jack [*]	North Shore		Manawatu.
Fortune, Hon. Wilfred Henry [*]	Eden	Rac, Duncan McFadyen [*]	Parnell.
Freer, Warren Wilfred	Mount Albert	Rac, John [*]	Roskill.
Gerard, Richard Geoffrey [*]	Ashburton	Ross, Hon. Mrs Grace Hilda [*]	Hamilton.
Gillespie, William Henry [*]	Huramui	Roy, James Alexander McLean, M.C. [*]	
Goosman, Hon. William Stanley [*]			Clutha.
	Piako	Semple, Hon. Robert	Miramar.
Gordon, Edward Brice Killen [*]	Rangitikei	Shand, Thomas Philip [†]	Marlborough.
Götz, Frank Leon Aroha [*]	Ohaiwhiri	Sheat, William Alfred [†]	Patea.
Hackett, Frederick	Grey Lynn	Sim, Geoffrey Fautman [*]	Waikato.
Halstead, Eric Henry [*]	Tamaki	Skinner, Hon. Clarence Farrington, M.C.	
Hanan, Josiah Ralph [*]	Invercargill.		Buller.
Harker, Cyril Geoffrey Edmund [*]		Smith, Sidney Walter [*]	Hobson.
	Hawke's Bay	Stewart, John Skinner [*]	Arch Hill.
Hayman, Thomas Leonard [†]	Oamaru	Sullivan, Hon. William [*]	Bay of Plenty.
Herron, George Richard [*]	Awarua	Sutherland, Andrew Sinclair [*]	Hauraki.
Holland, Rt. Hon. Sidney		Tait, Peter [*]	Napier.
George, C.H. [*]	Fendalton	Tennent, William Blair [*]	Palmerston N.
Holyoake, Rt. Hon. Keith Jacka [*]		Walsh, George Augustus [*]	Tauranga.
	Pahiatua	Watt, Hugh	Onehunga.
Howard, Miss Mabel Bowden	Sydenham	Watts, Hon. Jack Thomas [*]	St. Albans.
Hudson, Walter Arthur	Mornington.	Webb, Hon. Thomas Clifton	Rodney.
Johnstone, Hallyburton [†]	Raglan.		
Jones, Sydney Ionoval [†]	Hastings.		
Kearnis, Patrick	Waimarino.		
Kent, James Begg	Westland.	<i>For Maori Electorates</i>	
Kidd, David Campbell [†]	Waimate.	Omana, Teaki	Eastern Maori.
Lake, Harry Robson [*]	Lytelton.	Paikea, Taphana Paraire	Northern Maori.
McAlpine, John Kenneth [*]	Selwyn.		
Macdonald, Ritchie	Ponsonby.	Ratana, Mrs Iriaka Matini	Western Maori.
Macdonald, Hon. Thomas Lachlan [*]	Wallace	Tirikatene, Hon. Eneora Tihema	Southern Maori.
[*] Government member.			
[†] Deceased 12 June 1954; May, Henry Leonard James, elected 31 July 1954.			
[‡] Resigned 14 May 1954; re-elected 31 July 1954.			

JUDICIARY

Judges of the Supreme Court and Court of Appeal.—Chief Justice: Right Hon. Sir Harold Eric Barrowclough, K.C.M.G., C.B., D.S.O., M.C., E.D. Puisne Judges: Hon. Sir Arthur Fair, M.C.; Hon. G. P. Finlay; Hon. K. M. Gresson; Hon. J. Stanton; Hon. J. D. Hutchison; Hon. E. P. Hay; Hon. P. B. Cooke, M.C.; Hon. F. B. Adams; Hon. A. K. North; Hon. A. K. Turner; Hon. G. I. McGregor.

Judges of the Court of Arbitration.—Hon. A. Tyndall, C.M.G.; Hon. W. F. Stilwell.

Judge of Compensation Court.—Hon. D. J. Dalglish.

Judge of Land Valuation Court.—Hon. K. G. Archer.

HONOURS

Since the preceding issue of the Year-Book the following honours have been conferred by Her Majesty the Queen for services rendered in connection with New Zealand:

[*(a)* Signifies conferred in the Coronation Honours List of June 1953; (*b*) in January 1954.]

CIVIL DIVISION

Knight Commander of the Most Distinguished Order of Saint Michael and Saint George (K.C.M.G.)—The Honourable Harold Eric Barrowclough, C.B., D.S.O., M.C., E.D. (*b*); Dr Francis Gordon Bell, M.C. (*a*).

Knight Bachelor—

William Goodfellow (*a*); John Moody Albert Iloit (*b*); Enoch Bruce Levy, O.B.E. (*a*).

Companion of the Most Distinguished Order of Saint Michael and Saint George (C.M.G.)—G. E. L. Alderton (*b*); Dr R. M. Campbell (*a*); Dr P. S. Foster (*a*); The Honourable R. Masters (*a*); G. R. Powles (*b*).

Commander of the Most Excellent Order of the British Empire (C.B.E.)—

T. A. Barrow (*b*); G. L. Laursenson (*b*); A. Linton (*a*); J. T. Martin (*a*); Dr O.C. Mazengarb (*b*); The Right Reverend W. N. Panapa (*b*); Professor W. Riddet (*b*); K. M. Steight (*a*); H. Turner (*a*).

Officers of the Most Excellent Order of the British Empire (O.B.E.)—

Dr W. A. Anderson (*b*); Miss M. F. Barnett (*b*); G. B. Bolt (*a*); J. B. Carruthers (*b*); A. J. Dickson (*a*); H. F. Guy (*b*); A. H. Hansen (*a*); J. A. Harley (*a*); Miss N. M. Knight (*a*); W. A. Lee (*b*); W. T. Lester (*a*); W. G. Lowe (*b*); M. E. Lyons (*a*); N. H. Moss (*b*); C. J. Parlane (*a*); F. M. Renner, E.D. (*a*); The Honourable W. J. Rogers (*b*); Lady Helena Sidney (*a*); J. B. Sim (*b*); W. A. Stevenson (*b*); C. J. Strongman (*a*); F. E. Sutton (*a*); H. T. R. Vercoe, D.S.O., D.C.M. (*a*); F. W. Ward (*a*).

Companion of the Imperial Service Order (I.S.O.)—

F. R. Callaghan (*a*); D. G. Sawers (*a*).

Member of the Most Excellent Order of the British Empire (M.B.E.)—

Mrs C. S. McD, Adnams (*b*); G. F. Allen (*b*); G. R. Ashbridge (*a*); W. E. Barber (*b*); A. E. Bedford (*a*); A. R. Blank (*a*); F. E. Bognuda (*a*); Mrs M. A. S. Brown (*a*); Miss C. J. Campbell (*b*); Mrs W. Cooper (*a*); J. Corden (*b*); A. P. Day (*a*); E. C. Day (*a*); Miss L. A. Donohue (*b*); S. Ensor (*a*); Miss T. R. Faulconbridge (*a*); S. W. Gaspar (*a*); J. S. Hawkes (*a*); P. J. Hantz (*a*); Miss H. M. Hunter (*b*); S. C. Hyndman (*a*); Mrs A. Kasper (*a*); Mrs J. E. MacKay (*a*); The Reverend A. McNeur (*a*); Mrs E. I. Maider (*b*); W. J. O'Connell (*a*); Dr G. B. Orbell (*a*); Mrs E. M. G. Ormond (*a*); M. E. Perreau (*a*); The Reverend W. Rangit (*b*); A. E. Russell (*a*); W. G. Rutherford (*b*); D. W. Rutledge (*b*); Mrs N. L. Shelton (*b*); K. G. L. Smith (*b*); W. F. Sturman (*b*); Mrs M. Tahuwa (*b*); Sister L. J. Tinney (*b*); H. P. D. Van Aesch (*a*); Mrs F. Webb (*a*); Mrs E. M. Wilkinson (*a*); H. F. Wood (*b*).

British Empire Medal (B.E.M.)—

Miss A. Hollis (*b*); R. Waddell (*a*); C. S. Yates (*b*).

MILITARY DIVISION

Companion of the Most Honourable Order of the Bath (C.B.)—

Rear Admiral F. A. Ballance, D.S.O. (*a*).

Commander of the Most Excellent Order of the British Empire (C.B.E.)—

Brigadier J. R. Page, D.S.O. (*b*); Group Captain G. H. H. Proctor (*a*).

Officer of the Most Excellent Order of the British Empire (O.B.E.)—

Lieutenant-Colonel E. W. Aked, M.C. (*b*); Lieutenant-Colonel A. W. H. Borrie (*a*); Squadron Leader T. G. Harpur (*a*); Commander P. J. Knowling (*a*); Wing Commander S. G. Quill, D.F.C. (*b*); Lieutenant-Colonel F. Reid (*a*); Chaplain H. G. Taylor (*b*).

Member of the Most Excellent Order of the British Empire (M.B.E.)—

Warrant Officer (First Class) R. J. B. Allan (*a*); Captain (Temporary Major) G. F. Aussin (*a*); Flight Lieutenant A. C. G. Baldwin (*a*); Major C. A. Burman (*a*); Warrant Officer C. R. Carter (*b*); Major D. A. Caughley (*a*); Warrant Officer V. L. V. Crawshaw (*a*); Flight Lieutenant W. R. Duncan (*b*); Major G. L. Falek, E.D. (*b*); Flight Lieutenant F. M. B. George (*a*); Warrant Officer F. M. B. Gilmer (*b*); Warrant Officer C. F. Halkett (*a*); Second Lieutenant (Temporary Lieutenant) J. R. Harrison (*a*); Captain S. P. Llewellyn (*a*); Major W. A. Morgan (*a*); Senior Commissioned Mechanician W. R. Paul (*b*); Captain (Temporary Major) F. Rennie (*b*); Lieutenant Commander (s) T. R. Royalhouse (*b*).

Royal Red Cross (First Class) (R.R.C.)—

Matron C. MacDonaki, A.R.R.C. (*a*).

Air Force Cross (A.F.C.)—

Squadron Leader J. R. Day, M.B.E. (*b*); Flight Lieutenant G. R. B. Higher, D.F.C. (*a*); Squadron Leader R. D. McVicker (*b*); Flight Lieutenant T. R. Rabone (*a*). Squadron Leader C. L. Siegert, D.F.C. (*b*).

Royal Red Cross (Second Class) (A.R.R.C.)—

Temporary Matron R. M. Simpson (*b*); Matron L. E. Souness (*b*).

British Empire Medal (B.E.M.)—

Temporary Sergeant G. M. Batchelor (*b*); Flight Sergeant V. J. Braggins (*b*); Chief Petty Officer C. I. F. Brewis (*b*); Chief Petty Officer G. G. Dessume (*b*); Chief Petty Officer J. Dykes (*a*); Flight Sergeant G. R. Homer (*a*); Sergeant C. M. Jennings (*a*); Lance-Corporal J. S. Moyle (*b*); Chief Petty Officer D. E. G. Nichols (*b*); Flight Sergeant A. S. Price (*a*); Sergeant E. Slinn (*a*).

Queen's Commendation for Valuable Services in the Air—

Sergeant D. S. Galloway (*a*); Flight Lieutenant K. C. Noble-Campbell (*b*).

It was announced from the Prime Minister's residence in London on 6 June that Edmund Hillary had been appointed a Knight Commander of the Order of the British Empire (K.B.E.) by Her Majesty the Queen.

SPECIAL OPERATIONAL AWARDS

(Service in Korea)

Royal New Zealand Navy—

Bar to the Distinguished Service Cross—
Commander G. R. Davis-Goff, D.S.C. (*a*).

Mentioned in Despatches—

Ordnance Artificer (2) J. F. Gray (*a*).

New Zealand Emergency Force:

Member of the Most Excellent Order of the British Empire (M.B.E.)—

Captain A. Channings (*a*).

Military Cross—

Captain (Temporary Major) V. G. Skilton (*a*).

Mentioned in Despatches—

Captain B. Poananga (*a*); Corporal (Temporary Sergeant) J. M. Spiers (*a*); Gunner J. F. Reid (*a*); Gunner C. E. Ryan (*a*).

It was also announced that Her Majesty the Queen had been pleased to assume the following appointments in the New Zealand Army:

Captain-General, The Royal New Zealand Artillery.

Captain-General, The Royal New Zealand Armoured Corps.

Colonel-in-Chief, The Royal New Zealand Engineers.

Colonel-in-Chief, The Auckland Regiment (Countess of Ranfurly's Own).

Colonel-in-Chief, The Wellington Regiment (City of Wellington's Own).

ROYAL TOUR HONOURS LIST

Her Majesty the Queen made the following appointments to the Royal Victorian Order on the occasion of her visit to New Zealand:

Knight Grand Cross (G.C.V.O.)—

His Excellency Lieutenant-General Sir Charles Willoughby Moke Norrie, G.C.M.G., C.B., D.S.O., M.C., Governor-General of New Zealand.

Knight Commander (K.C.V.O.)—

The Honourable William Alexander Bodkin, M.P.

Commander (C.V.O.)—

E. H. Compton; D. E. Foully, C.B.E.; A. G. Harper; Major M. A. T. Trasenster.

Member of the Fourth Class (M.V.O.)—

C. A. Furlong; P. J. Nalder.

Member of the Fifth Class (M.V.O.)—

W. S. Brown; J. te H. Grace; Major N. R. Ingle; Miss B. N. Manning; W. L. Middlemass; P. J. O'Dea; P. J. H. Purvis, B.E.M.; Flight Lieutenant B. W. T. Richards, M.B.E.; Squadron Leader C. L. Siegert, D.F.C., A.F.C.; W. G. Taylor; Captain H. C. Walker, A.F.C.; C. H. Williams.

Her Majesty the Queen also awarded the Royal Victorian Medal to the following on the occasion of her visit to New Zealand:

J. Baxendale; A. S. Dawson; A. R. Grant; J. N. G. Mounsey; Warrant Officer First Class A. E. Naulis, B.E.M.; H. R. Rump; H. J. Stevenson.

AWARDS

His Excellency the Governor-General announced that Her Majesty the Queen had approved the following awards in recognition of services at the Tangiwa railway disaster on 24 December 1953:

CIVIL DIVISION

George Medal (G.M.)—

A. C. Ellis; J. W. Holman.

British Empire Medal (B.E.M.)—

A.D.Bell; W. I. Inglis.

GOVERNMENT DEPARTMENTS

LIST OF DEPARTMENTS OF THE NEW ZEALAND GOVERNMENT, WITH TITLES AND NAMES OF PERMANENT HEADS, JUNE 1954

Department	Permanent Head	Title	Name
Agriculture	Director-General		E. J. Fawcett, C.B.E., M.C., M.A. (Canab.)
Air	Chief of Air Staff and First Air Force Member of the Air Board	Air Secretary	Air Vice-Marshal W. H. Merton, C.B., O.B.E. B. R. Rae, B.Com.
Civil Aviation	Director		E. A. Gibson, O.B.E., A.M.I.C.E., A.F.R.AcS.
Meteorological	Director		M. A. F. Barnett, O.B.E., M.Sc., Ph.D., F.Inst.P., F.R.S.N.Z.
Army	Chief of the General Staff and First Military Member of the Army Board	Army Secretary	Major-General W. G. Gentry, C.B.E., D.S.O. F. B. Dwyer
Audit	Controller and Auditor-General		C. R. J. Atkin
Broadcasting	Director		W. Yates.
Census and Statistics	Government Statistician		G. E. F. Wood, O.B.E., M.A.
Crown Law	Solicitor-General		H. E. Evans, Q.C., B.A., LL.M.
Customs	Comptroller		J. P. D. Johnson.
Education	Director		C. E. Beeby, M.A., Ph.D.
External Affairs	Secretary		A. D. M. McIntosh, M.A.
Government Life Insurance	Commissioner		W. K. Watson.
Health	Director-General		J. Cairney, M.D., Ch.B., F.R.A.C.S., D.Sc.
Mental Hygiene Division	Director		R. G. T. Lewis, M.B., Ch.B.
Industries and Commerce	Secretary		F. B. Marshall.
Price Control Division	Director		H. L. Wise, M.Com.
Inland Revenue	Commissioner		F. G. Oberm.
	Chief Deputy Commissioner		G. R. Lawson.
	Deputy Commissioner (Duties Division)		F. R. Macken, LL.M.
Internal Affairs	Secretary and Clerk of Writs		A. G. Harper, C.V.O.
Dominion Museum	Director		Dr. R. A. Falla, D.Sc., M.A.
National Art Gallery	Director		S. B. MacLennan, A.R.C.A.
Rehabilitation	Deputy Director		L. P. Turner.
Island Territories	Secretary		J. B. Wright
Justice	Secretary for Justice, Controller-General of Prisons, Chief Probation Officer, Chief Electoral Officer, Secy. for Land and Deeds		S. T. Barnett.
Patent Office	Commissioner		A. H. Ilfe.
Labour and Employment	Secretary of Labour and Director of Employment		H. L. Bockett.
Lands and Survey	Director-General and Land Purchase Controller		D. M. Greig, M.S.I.N.Z.
Law Drafting	Law Draftsman		H. D. C. Adams, C.M.G., LL.B.
Legislative	Clerk of House of Representatives		H. N. Dollimore, LL.B.
Maori Affairs	Secretary, and Maori Trustee		T. T. Ropuha.
Marine	Secretary		W. C. Smith.
Mines	Under-Secretary		C. H. Benney.
Navy	Chief of the Naval Staff and First Naval Member of the Naval Board	Navy Secretary	Commodore Sir Charles E. Madden, Bt. D. A. Wright.
New Zealand Forest Service	Director		A. R. Entrican, A.A.S.E., A.M.I.C.E.
Police	Commissioner		E. H. Compton, C.V.O.
Post and Telegraph	Director-General		C. A. McFarlane, B.Com., D.P.A.
Prime Minister's	Permanent Head		A. D. M. McIntosh, M.A.
	Secretary to Cabinet		F. Shanahan, LL.M.
	Chief Private Secretary		K. M. Sleight, C.B.E.
Printing and Stationery	Government Printer		R. E. Owen.
Public Service Commission	Chairman of Commission		G. T. Bolt.
Public Trust	Public Trustee		G. E. Turney.
Railways	General Manager		H. C. Lassy, M.I.C.E.
Scientific and Industrial Research	Secretary		W. M. Hamilton, D.Sc., N.D.H. (N.Z.).
Social Security	Chairman, Social Security Commission and Secretary for War Pensions		A. E. T. Williams.

Department	Permanent Head	Title	Name
State Advances Corporation of New Zealand	Managing Director		T. N. Smallwood, O.B.E.
	Deputy Managing Director		F. W. E. Mitchell.
	General Manager		K. J. Caverhill.
State Fire and Accident Insurance	General Manager		H. C. R. Blackwood.
State Hydro-electric	General Manager		A. E. Davenport, B.E. (Elect.), M.I.E.E.
Tourist and Publicity	General Manager		R. W. Marshall, O.B.E.
Transport	Commissioner		H. B. Smith, B.Com.
Treasury	Secretary		B. C. Ashwin, C.M.G., M.Com.
Government Actuary's Branch	Government Actuary		S. Beckingsale, F.I.A.
Superannuation	Controller		W. L. Comrie.
National Provident Fund	Superintendent		
Valuation	Valuer-General		W. R. Beattie.
Works, Ministry of	Commissioner of Works		E. R. McKillop, C.M.G., O.B.E., M.I.C.E.
	Deputy Commissioner of Works		F. H. M. Hanson, M.S.I.N.Z.
	Engineer-in-Chief	C. W. O. Turner, B.Sc. (Eng.) (Lon.), M.Eng. (Illinois), M.I.C.E.	
	Government Architect		F. G. Wilson, A.N.Z.I.A.
Housing Division	Director		R. B. Hammond, F.N.Z.I.A., M.T.P.I. (Lon.).

THE PUBLIC SERVICE

The Public Service comprises in the widest sense all servants of the Crown—other than those holding political or judicial office—who are employed in a civil capacity and whose remuneration is paid from parliamentary appropriations. They are employees of the various State Departments, commissions, and other agencies, and represent practically all occupations.

Some 32,177 permanent officers and 1,969 temporary employees (excluding casuals) were employed at 1 April 1953 in forty Departments under the control of the Public Service Commission⁸. Since the passing of the Public Service Amendment Act, 1951, the Commission may consist of not more than three members appointed by the Governor-General on the recommendation of Government. At present the actual composition of the Commission is a Chairman and three members; this is being validated by legislation during the 1954 Session. Except that the term of the first Chairman is seven years, each member is appointed for five years and is eligible for reappointment. A brief summary of the development of Commission control is given on page 999 of the 1951 issue of the Official Year-Book.

Functions.—The Commission's functions are defined in the Public Service Act 1912 and amendments, and are briefly as follows: (1) recruitment of staff, (2) classification of positions according to importance and character, (3) maintenance of a fair and efficient system of promotion, (4) protection of the independence and integrity of the Service, (5) maintenance of efficiency and economy, (6) maintenance of discipline, (7) regulation of various personnel matters—*e.g.*, leave, hours of work, payment of allowances.

Recruitment.—The recruitment of public servants is conducted by the Commission through its district representatives, its own officers, and by Departments in collaboration with the Commission. Details of career openings in the Service are regularly supplied to schools; careers booklets are published by the larger Departments.

All recruits, except with permission of the Governor-General, must be British subjects, and are appointed in the first instance on probation for a period, normally of two years.

Classification.—There are five statutory Divisions into which positions may be classified, as follows:

- Administrative.*—Those positions held by Permanent Heads and their Deputies.
- Professional.*—Includes officers suitably qualified employed in such fields as architecture, engineering, dentistry, law, medicine, and science.
- Clerical.*—Includes qualified officers employed on duties ranging from routine clerical and accounting work to senior executive positions.
- Educational.*—Includes teachers in Maori schools, the Correspondence Schools, and special institutions.
- General.*—Includes a wide range of "field" positions, the trades, and comparable vocations. The Commission is required to grade officers in these divisions according to their fitness and the character and importance of the duties performed by them. A statutory regrading of the whole Service is required each five years; this was last effected at 1 April 1951.

Promotion.—Promotion in the Public Service is based on merit. While the Service has clearly defined salary scales and avenues of promotion, it allows for and encourages quick promotion with special salary increases to officers of outstanding merit. All vacancies above the basic grade for first entry into the Service are widely advertised so that all persons in the Service, and sometimes persons outside the Service, may apply for higher positions. Appointments are given to the most suitable and efficient applicants and, as between Service personnel, seniority becomes a factor only when applicants have equal claims in other respects.

Public servants have certain rights of appeal to the Public Service Board of Appeal concerning (1) gradings fixed by the Commission in the statutory regrading year, (2) promotions approved by the Commission, and (3) decisions by the Commission concerning charges made against officers. The Board's decisions are final.

* Included among Departments and other agencies outside the control of the Public Service Commission are the Legislative, Post and Telegraph, and Railways Departments, the Teaching Service, the uniform branches of the Police, Navy, Army, and Air Departments, the Judiciary, and the Magistracy. Details of staff employed in most of these organizations may be found in appropriate Sections elsewhere in this volume. Casual employees are included in the Section on employment and unemployment.

Independence and Integrity.—One of the statutory functions of the Commission is to protect the independence and integrity of the Service. The Commission is not responsible to a Minister of the Crown. Subject to the statutory appeal rights of staff, the Commission is largely autonomous in matters of appointments to and promotions in the Service. It is, however, required to report annually to Parliament on the condition and efficiency of the Public Service.

By statute a person is liable to a penalty should he attempt to influence the Commission regarding a person's appointment, promotion, or salary.

Organization and Methods.—The Commission is responsible for efficiency in departmental organization and methods. It has established an O. & M. Section to give advisory service to Departments and to explore, in collaboration with Departments, problems of Service-wide application with a view to finding model systems. The setting-up of this Section is in line with the increasing awareness in recent years of the extent to which successful administration depends on the employment of the most efficient and up-to-date management techniques.

Complementary to the continuing search for improved organization and methods is a formal suggestions scheme designed to stimulate suggestions for better methods from all ranks of public servants. This scheme produces a steady flow of suggestions, many of which are adopted in full or in part.

Staff Training and Education.—A comprehensive Service training and education policy is pursued by the Commission's Staff Training Branch. The Branch organizes central courses, instructs departmental training officers in training techniques, publishes training material, assists Departments to develop training to meet specific needs, and acts as a general clearing house for the exchange of information on training methods. It also administers the various bursary schemes operated by the Commission.

Statistics: Staff.—The detailed distribution of staff among Departments under the Public Service Commission is shown in the Commission's annual reports to Parliament (parliamentary paper H-14).

Salaries.—The following general provisions are applicable:

- Public Service Commissioners.*—Fixed by annual appropriation. Present rates are Chairman £2,030, members £1,930.
- Administrative Divisions.*—Various rates, according to position held; fixed by annual appropriation.
- Other Divisions.*—As prescribed by the Government Service Tribunal. Salaries payable in the Professional and Clerical Divisions as from 1 September 1952 were (teachers' salaries are shown in the Education Section; various rates are payable in the General Division)—

Class	Salary Incremental Range						
VI	£220, £255, £295, £335, £380, £425, £460, £495, £530, £570, £605,*						
V						£645, £680,	
IV						£710, £740,	
III						£770, £800,	
II						£830, £860,	
I						£920, £980,	
Sp.	£1,030, £1,080, £1,130, £1,180, £1,240, £1,290, £1,340, £1,390,						

* Repeated in Class V.

The commencing salary for those with School Certificate is £255, and for those with University Entrance or Endorsed School Certificate, £295. The initial maximum for a female clerk is £495.

All rates are subject to 10 per cent general wage increase as from 15 September 1953, limited to 24s. a week for adult males, 18s. a week for adult females, and 14s. a week for juniors.

NEW ZEALAND REPRESENTATIVES OVERSEAS

JUNE 1954

Argentina.—Hon. Representative of Department of Industries and Commerce, T. E. B. Poole, Alsina, 1146, Buenos Aires.

Australia.—High Commissioner, G. E. L. Alderton, C.M.G. (Official Secretary, T. P. Davin; Assistant Secretary, Miss H. N. Hampton), Canberra, A.C.T.; Senior Trade Commissioner, J. A. Malcolm; Assistant Trade Commissioner, E. J. Such; Travel Manager, Department of Publicity, R. W. Coupland, 14 Martin Place (P.O. Box 365F), Sydney; Trade Commissioner, R. J. Inglis; Assistant Trade Commissioner, G. L. Sutherland; Travel Manager, Department of Tourist and Publicity, N. F. Gouffe, 428 Collins Street (P.O. Box 2136), Melbourne. Head, New Zealand Joint Services Liaison Staff, Captain G. R. Davis; G.D.S., R.N.Z.N., Victoria Barracks, S.C. 1, Melbourne.

Burma.—Hon. New Zealand Government Agents, New Zealand Insurance Co., Rangoon.

Canada.—High Commissioner, T. C. A. Hislop, C.M.G. (Official Secretary, O. P. Gabites; Assistant Secretary, I. L. G. Stewart), 105 Wurttemberg Street, Ottawa. Trade Commissioner, N. S. Mountain; Assistant Trade Commissioner, J. P. Costello, 609 Sun Life Building, Montreal.

Fiji.—Hon. New Zealand Government Agents, W. R. Carpenter and Co. (Fiji), Ltd., Suva.

France.—Legation, 9 Rue Leonard de Vinci, Paris; Charge d'Affaires, Miss J. R. McKenzie, C.B.E.; First Secretary, D. P. Costello; Second Secretary, B. D. Zohab.

Hawaii.—Hon. New Zealand Government Agent, H. C. Tennent, Nuuanu Avenue (P.O. Box 3049), Honolulu.

India.—Trade Commissioner, J. B. McGuire; Assistant Trade Commissioner, R. G. J. Phelan, Mercantile Bank Buildings, Mahatma Gandhi Road (P.O. Box 1194), Bombay. Hon. New Zealand Government Agents, New Zealand Insurance Company, Calcutta.

Japan.—Legation, 26 Sanban-cho Kojimachi Chiyoda-ku, Tokyo; Chargé d'Affaires, R. L. G. Challis; Second Secretary, R. M. Miller.

Netherlands.—Consul, C. F. Shapcott, 53 Anna Paulowna Straat, The Hague.

South Africa.—Hon. New Zealand Government Agent, H. J. Constable, P.O. Box 1909, Johannesburg.

United Kingdom of Great Britain and Northern Ireland.—Acting High Commissioner, Official Secretary, R. M. Campbell, C.M.G.; Counsellor, F. H. Corner; Counsellor (Economic), G. D. L. White; Second Secretary, W. W. Mason; Senior R.N.Z.N. Liaison Officer, Commander A. B. Gilliland, V.R.D.; Senior New Zealand Army Liaison Officer, Brigadier L. W. Thornton, C.B.E.; Senior R.N.Z.A.F. Liaison Officer, Air Commodore M. F. Calder, C.B.E.; Financial Secretary, I. G. Durbin, Scientific Adviser, Dr. V. Armstrong; Commercial Secretary, J. B. Prendergast; Chief Migration Officer, J. V. Brennan; Agricultural Adviser, C. V. Doyus; Public Relations Officer, A. T. Campbell; Customs Adviser, J. R. Oxaldston; Travel Manager, Department of Tourist and Publicity, A. N. Reid; Representative of the Public Trust Office, A. E. Kennard, Advisory Engineer, New Zealand Railways, R. F. Marriott, New Zealand Government Offices, 415 Strand, London.

United States of America.—Embassy, 19 Observatory Circle, Washington; Ambassadors Extraordinary and Plenipotentiary, L. K. Munro; Minister and Consul-General for the United States of America, G. R. Laking; Commercial Counsellor, D. W. Woodward; First Secretary, R. H. Wade; Second Secretary, H. P. Jeffery; Third Secretary, R. E. Peren, Armed Forces Attaché, Brigadier W. S. McKinnon, O.B.E., Munitions Building, 20th and Constitution Avenues, Washington, Trade Commissioner, D. W. Woodward, Suite 210, Dupont Circle Building, 1346 Connecticut Avenue, N.W., Washington. Permanent Representative of New Zealand to the United Nations, L. K. Munro; Counsellor, A. R. Perry; Second Secretary, J. V. Scott; Second Secretary and Vice-Consul, D. F. Dunlop; Second Secretary, M. J. C. Templeton, New Zealand Government Offices, Suite 526, International Building, Rockefeller Center, New York. Consul-General and New Zealand Travel Commissioner for the United States of America and Canada, R. M. Firth, New Zealand Government Offices, 153 Kearney Street, San Francisco.

OVERSEAS REPRESENTATIVES IN NEW ZEALAND

JUNE 1954

Argentine Republic.—Consul Romulo M. Zabala, Wellington.

Australia.—High Commissioner, His Excellency Mr P. R. Heydon (Official Secretary, M. H. Marshall; Assistant Secretary, Miss J. H. Barnett); Defence Representative, Colonel (temp.) S. J. Bleechmore; Trade Commissioner, S. F. Lynch; Assistant Trade Commissioner, M. F. Roberts, Government Life Insurance Building, Customhouse Quay, Wellington.

Belgium.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr Armand Nibotte, Dominion Farmers' Institute, Wellington. Hon. Consuls: J. B. Ferguson, Auckland; Sir Joseph Ward, Bart., Christchurch; A. H. Allen, Dunedin.

Brazil.—Hon. Consul, C. A. L. Treadwell, Wellington.

Canada.—High Commissioner, His Excellency Mr E. H. Norman; Commercial Counsellor, Lester S. Glass; First Secretary, G. McInnes, Government Life Insurance Building, Customhouse Quay, Wellington.

Chile.—Consul-General (with jurisdiction in New Zealand), R. Dundas Smith, Sydney. Hon. Consul, H. O. Taylor, Auckland.

China.—Consul-General (also has jurisdiction in the Trust Territory of Western Samoa), Tien Fang Cheng; Consul, Wu Wen-hui, D.I.C. Building, Lambton Quay, Wellington.

Cuba.—In New Zealand, Consular Officers of the United States of America act on behalf of the Cuban Government.

Czechoslovakia.—Consul-General (with jurisdiction in New Zealand) M. Jandik, Sydney.

Denmark.—Chargé d'Affaires, a.i., Mr V. Jensen, Government Life Insurance Building, Customhouse Quay, Wellington. Hon. Consuls: Stronach Paterson, Wellington; A. C. Perry, Christchurch. Hon. Vice-Consuls: L. J. Stevens, Auckland; G. C. Petersen, Palmerston North.

Fiji.—New Zealand Agents for the Colony of Fiji, L. D. Nathan and Co., Ltd., Auckland.

Finland.—Chargé d'Affaires (with jurisdiction in New Zealand), P. I. Simelius, Sydney. Hon. Vice-Consul, J. T. Christiansen, Auckland.

France.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr N. Henry; Acting First Secretary, J. J. Ortol; Commercial Counsellor, G. Paul-Boncour, Government Life Insurance Building, Customhouse Quay, Wellington. Hon. Consular Agents: R. G. McElroy, Auckland; F. Farrell, Christchurch; A. N. Haggitt, Dunedin.

German Federal Republic.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Dr Erich Boltze; His Excellency Dr Erich Boltze; Second Secretary, Dr H. J. Dietrich; Third Secretary (Commercial), R. Achenbach, 3 Claremont Grove, Wellington.

Greece.—Consul-General (with jurisdiction in New Zealand) (*vacant*), Sydney. Hon. Consul-General, T. E. Y. Seddon, Wellington. Hon. Deputy Consul-General, S. Garland, Wellington.

India.—High Commissioner, His Excellency General K. M. Cariappa, Canberra, A.C.T.; First Secretary (Commercial), N. Kesavan, 49 Willis Street, Wellington.

Israel.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr M. Nurock; First Secretary and Consul, Y. Lapid, Sydney.

Italy.—Envoy Extraordinary and Minister Plenipotentiary (*vacant*), Wellington.

Japan.—Chargé d'Affaires a.i., Mr Seichi Shima, Attaché, Mr Masakazu Oda, care of Midland Hotel, Wellington.

Lebanon.—Hon. Consul, G. J. Marsh, Wellington.

Netherlands.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency B. A. Piets (nominated); Second Secretary, F. Van Raabe; Emigration Attaché, J. Roberts, D.I.C. Building, Lambton Quay, Wellington. Hon. Consul, C. S. O. Hughes, Auckland. Hon. Vice-Consuls: G. N. Francis, Christchurch; G. R. Ritchie, Dunedin.

Nicaragua.—Consul-General (with jurisdiction in New Zealand), C. Paray, Sydney.

Norway.—Hon. Consul, J. Halligan, Wellington. Hon. Vice-Consuls: D. Millar, Auckland; J. Heaton Rhodes, Christchurch; J. H. Edmond, Dunedin.

Pakistan.—High Commissioner, His Excellency Mr H. Rahman; Acting Official Secretary, N. A. Naik; Commercial Secretary, A. W. Khan; Press Attaché, S. Waliullah, Sydney.

Panama.—Hon. Consul, P. C. Griffiths, Auckland.

The Philippines.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr Roberto Regala; Second Secretary and Consul, G. P. Provido, Sydney.

Poland.—Consul-General (with jurisdiction in New Zealand), Albert Morski, London.

Portugal.—Consul (with jurisdiction in New Zealand), A. de S. S. Garrido, Sydney. Hon. Consuls: L. D. Nathan, Auckland; W. S. Wheeler, Wellington. Hon. Vice-Consuls: I. D. Reid, Wellington; J. Elvidge, Dunedin.

Sweden.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr. J. M. Kastengen, Canberra, A.C.T.; Chargé d'Affaires, a.i., B. J. Järnstedt, Wellington. Hon. Vice-Consuls: C. M. Richwhite, Auckland; I. Machin, Christchurch; R. S. Glendinning, Dunedin; K. H. Allen, Invercargill.

Switzerland.—Consul, Henri Blanchard, Wellington.

Tonga.—New Zealand Agents for the Government of Tonga, Messrs. Spedding Ltd., Auckland.

Turkey.—Hon. Consul (with jurisdiction in New Zealand and the Trust Territory of Western Samoa), E. G. Cowell, Auckland.

Union of South Africa.—Hon. Trade Commissioner, M. G. C. McCaul, care of Philips and Pike, Ltd., Wellington.

Union of Soviet Socialist Republics.—Envoy Extraordinary and Minister Plenipotentiary, His Excellency Mr. Nikolai I. Gencralov (*absent*); Chargé d'Affaires, a.i., and Counsellor, K. A. Efremov; First Secretary, V. D. Kalistratov; Commercial Attaché, G. M. Sokolov; Attaché, V. P. Stativkin, Legation of the Union of Soviet Socialist Republics, 57 Messines Road, Wellington.

United Kingdom of Great Britain and Northern Ireland.—High Commissioner, His Excellency General Sir Geoffry Scoones, K.C.B., K.B.E., C.S.I., D.S.O., M.C.; Deputy High Commissioner, W. G. Head, C.B.E.; Economic Adviser, R. B. Willmot, C.M.G.; First Secretary, C. M. Macchese, M.B.E.; Agricultural Adviser, E. C. Griffiths; Public Relations Officer, K. C. F. Davies; Second Secretary, Miss M. Archer, M.B.E.; Senior Trade Commissioner, R. B. Willmot, C.M.G.; Trade Commissioner, D. Broad; Government Life Insurance Building, Customhouse Quay, Wellington. Trade Commissioner, H. F. Stevens, Auckland. Service Liaison Staff: Navy, Captain G. N. Brewer, D.S.O., R.N.; Army, Colonel E. H. Tinker, Air, Group Captain F. Rump, O.B.E.; Joint Secretary, Squadron Leader E. J. Wilson, Government Life Insurance Building, Customhouse Quay, Wellington.

United States of America.—Ambassador Extraordinary and Plenipotentiary, His Excellency the Hon. Robert M. Scotten; Counsellor, Samuel D. Berger; Army Attaché, Colonel Julian G. Heame, Jr.; Air Attaché, Colonel John L. Sullivan (resident in Melbourne, Australia); Assistant Air Attaché, Lieutenant Colonel G. A. Uhrich (resident in Melbourne, Australia); Assistant Air Attaché, Major James K. Clark (resident in Melbourne, Australia); Naval Attaché and Naval Attaché for Air, Captain R. A. MacPerson (resident in Melbourne, Australia); Assistant Naval Attaché and Assistant Naval Attaché for Air, Lieutenant Albert B. Brumstead (resident in Melbourne, Australia); Commercial Attaché, Roy T. Kimmel; Attaché and Administrative Officer, Nathan R. Meadows; Public Affairs Officer, William E. Flippo; Second Secretaries; Edward P. Prince, Philip C. Habb; Consul-General, Samuel D. Berger; Vice-Consul; Leslie A. Klieforth, Government Life Insurance Building, Customhouse Quay, Wellington. Consul, Howard C. Goldsmith, Auckland. Consular Agent: Robert J. McMenamin, Christchurch.

Yugoslavia.—Consul-General, V. Popovic; Vice-Consul, F. Broz, Wellington.

Chapter 46. STATISTICAL SUMMARY

Table of Contents

[STATISTICAL SUMMARY FOR NEW ZEALAND](#)

[POPULATION AND EXTERNAL MIGRATION \(INCLUDING MAORIS\)](#)

STATISTICAL SUMMARY FOR NEW ZEALAND

POPULATION AND EXTERNAL MIGRATION (INCLUDING MAORIS)

Year	Population		Mean Population		Year Ended 31 March	
	At 31 December	At 31 March	Year Ended 31 December	Year Ended 31 March	Overseas Passenger Arrivals*	Overseas Passenger Departures*
1903	875,648	857,993	863,360	845,566	32,625	19,994
1904	900,682	882,100	888,165	870,047	30,485	20,163
1905	925,605	908,116	913,144	895,108	33,524	22,582
1906	956,457	933,114	943,325	920,615	33,253	23,973
1907	977,215	961,598	966,836	949,650	39,812	28,877
1908	1,008,373	985,320	992,794	973,459	37,618	29,853
1909	1,030,657	1,016,063	1,019,515	1,000,692	45,374	31,226
1910	1,050,410	1,035,212	1,040,534	1,025,638	34,715	32,854
1911	1,075,250	1,056,199	1,065,887	1,045,706	37,049	34,375
1912	1,102,471	1,081,344	1,088,861	1,069,828	43,097	37,205
1913	1,134,506	1,111,589	1,118,488	1,096,467	46,892	34,935
1914	1,145,838	1,139,668	1,140,172	1,125,628	41,672	31,517
1915	1,152,638	1,150,386	1,149,238	1,145,027	33,377	27,254
1916	1,150,339	1,150,250	1,149,225	1,150,318	25,407	22,808
1917	1,147,448	1,150,938	1,148,893	1,149,225	20,470	20,047
1918	1,158,149	1,154,559	1,152,798	1,152,748	13,718	12,214
1919	1,227,181	1,178,406	1,192,665	1,166,482	11,978	11,473
1920	1,257,611	1,236,915	1,242,396	1,207,660	26,900	23,990
1921	1,292,892	1,267,498	1,274,917	1,252,206	46,900	31,908
1922	1,318,884	1,301,251	1,305,126	1,283,546	41,128	30,396
1923	1,343,021	1,325,301	1,328,193	1,311,382	34,108	28,581
1924	1,370,403	1,347,853	1,352,618	1,334,029	36,254	30,487
1925	1,401,230	1,379,487	1,384,428	1,359,995	42,211	29,913
1926	1,429,669	1,409,812	1,413,743	1,392,073	42,449	30,714
1927	1,450,356	1,438,132	1,439,004	1,420,838	45,682	34,018
1928	1,467,370	1,453,821	1,456,075	1,443,551	35,837	37,072
1929	1,486,134	1,471,110	1,473,419	1,460,363	34,799	34,088
1930	1,506,809	1,489,203	1,493,019	1,478,027	33,839	31,454
1931	1,522,762	1,511,700	1,514,215	1,498,416	30,741	25,632
1932	1,534,735	1,525,545	1,527,062	1,517,940	17,891	21,063
1933	1,547,124	1,538,028	1,539,590	1,530,119	18,713	21,308
1934	1,558,373	1,550,125	1,551,532	1,542,651	19,687	22,022
1935	1,569,689	1,560,992	1,562,233	1,554,297	24,901	28,051
1936	1,584,617	1,573,927	1,575,231	1,565,263	26,936	28,050
1937	1,601,758	1,587,211	1,589,972	1,578,757	31,670	32,023
1938	1,618,313	1,604,479	1,606,763	1,594,275	38,738	36,352
1939	1,641,639	1,624,714	1,628,512	1,611,362	42,648	37,685
1940	1,633,645	1,640,901	1,637,305	1,633,447	31,432	25,404
1941	1,631,276	1,636,230	1,630,948	1,635,715	13,814	13,100
1942	1,636,403	1,634,338	1,639,572	1,630,419	7,102	6,893
1943	1,642,041	1,634,094	1,635,635	1,640,191	3,133	2,592
1944	1,676,293	1,643,900	1,655,794	1,637,570	3,747	3,640
1945	1,727,817	1,679,972	1,694,641	1,664,585	7,207	6,189
1946	1,781,214	1,756,756	1,759,526	1,710,680	13,309	10,966
1947	1,817,453	1,789,476	1,798,262	1,770,291	25,358	22,320
1948	1,853,806	1,828,025	1,834,655	1,807,611	33,144	27,388
1949	1,892,042	1,864,560	1,871,748	1,843,767	35,946	31,765
1950	1,927,629	1,902,883	1,909,092	1,881,317	50,880	43,000

* Excluding "through" passengers, and tourists on cruising liners.

Year	Population		Mean Population		Year Ended 31 March	
	At 31 December	1938.032	Year Ended 31 December	Year Ended 31 March	Overseas Passenger Arrivals*	Overseas Passenger Departures*
1951	1,970,522	1,988,032	1,947,529	1,917,934	54,644	47,122
1952	2,024,556	1,984,730	1,996,149	1,958,729	62,498	46,834
1953	2,074,781	2,037,553	2,048,826	2,009,506	66,240	44,208

* Excluding "through" passengers, and tourists on cruising liners.

VITAL STATISTICS (EXCLUDING MAORIS)

Year	Numbers			Rates Per 1,000 of Mean Population			Deaths Under 1 Year Per 1,000 Live Births
	Live Births/Marriages	Deaths	Deaths Under 1 Year	Live Births	Marriages	Deaths	
1903	21,829	6,748	8,528	1,770	26.61	8.23	10.40
1904	22,766	6,983	8,087	1,616	26.94	8.26	9.57
1905	23,682	7,200	8,061	1,599	27.22	8.28	9.27
1906	24,252	7,592	8,339	1,506	27.08	8.48	9.31
1907	25,094	8,192	10,066	2,228	27.30	8.91	10.95
1908	25,940	8,339	9,043	1,761	27.45	8.82	9.57
1909	26,524	8,094	8,959	1,634	27.29	8.33	9.22
1910	25,984	8,236	9,639	1,760	26.17	8.30	9.71
1911	26,354	8,825	9,534	1,484	25.97	8.70	9.39
1912	27,508	9,149	9,214	1,409	26.48	8.81	8.87
1913	27,935	8,813	10,119	1,653	26.14	8.25	9.47
1914	28,338	9,280	10,148	1,456	25.99	8.51	9.31
1915	27,850	10,028	9,965	1,394	25.33	9.12	9.06
1916	28,509	8,213	10,596	1,446	25.94	7.47	9.64
1917	28,239	6,417	10,528	1,360	25.69	5.84	9.58
1918	25,860	6,227	16,364	1,252	23.44	5.65	14.84
1919	24,483	9,519	10,808	1,108	21.42	8.33	9.46
1920	29,921	12,175	12,109	1,513	25.09	10.21	10.15
1921	28,567	10,635	10,682	1,366	23.36	8.69	8.73
1922	29,006	9,556	10,977	1,215	23.18	7.64	8.77
1923	27,967	10,070	11,511	1,225	21.96	7.91	9.04
1924	28,014	10,259	10,767	1,127	21.60	7.91	8.30
1925	28,153	10,419	11,026	1,125	21.20	7.85	8.30
1926	28,473	10,680	11,819	1,132	21.06	7.90	8.74
1927	27,881	10,478	11,613	1,080	20.29	7.63	8.45
1928	27,200	10,537	11,811	984	19.57	7.58	8.50
1929	26,747	10,967	12,314	912	19.03	7.80	8.76
1930	26,797	11,075	12,199	924	18.83	7.78	8.57
1931	26,622	9,817	12,047	856	18.45	6.81	8.35
1932	24,884	9,896	11,683	777	17.12	6.81	8.04
1933	24,334	10,510	11,701	770	16.63	7.18	7.99
1934	24,322	11,256	12,527	781	16.51	7.64	8.50
1935	23,965	12,187	12,217	773	16.17	8.23	8.25
1936	24,837	13,808	13,056	769	16.64	9.25	8.75
1937	26,014	14,364	13,658	812	17.29	9.55	9.08
1938	27,249	15,328	14,754	971	17.93	10.09	9.71
1939	28,833	17,115	14,158	898	18.73	11.12	9.20
1940	32,771	17,448	14,282	990	21.19	11.28	9.24
1941	35,100	13,313	15,146	1,045	22.81	8.65	9.84
1942	33,574	12,775	16,385	964	21.73	7.79	10.60
1943	30,311	12,021	15,447	951	19.70	7.35	10.04
1944	33,599	13,646	15,363	1,012	21.59	8.24	9.87
1945	37,007	16,693	16,051	1,036	23.22	9.85	10.07
1946	41,871	21,096	16,092	1,093	25.26	11.99	9.71
1947	44,816	19,047	15,504	1,122	26.47	10.59	9.39
1948	44,193	17,750	15,812	970	25.59	9.67	9.16
1949	43,988	17,354	16,012	1,046	24.98	9.27	9.09
1950	44,309	17,099	16,715	1,008	24.67	8.96	9.31
1951	44,651	16,915	17,512	1,017	24.39	8.69	9.56
1952	46,469	17,061	17,413	1,014	24.77	8.55	9.28
1953	46,414	17,224	17,009	931	24.12	8.41	8.84

* From 1942 figures relate to total marriages (i.e. European and Maori).

EDUCATION

Year	Number of Scholars* Receiving						University Students (Excluding Affiliated Agricultural Colleges)
	Primary Education at			Secondary Education at			
	Public Schools	Registered Private Schools	Maori Village Schools	Secondary (Including Endowed and Combined) Schools	District High Schools	Technical Schools	Registered Private Schools and Maori Secondary Schools
1902	132,362	15,667	3,742	3,072	1,479		864
1903	133,637	15,687	3,693	3,722	2,096		862
1904	135,568	16,445	3,754	4,038	2,330		971
1905	137,714	16,738	3,863	4,060	2,872		1,153
1906	139,400	17,217	4,174	4,270	2,594		1,332
1907	141,281	18,174	4,183	4,196	2,452		1,325
1908	147,660	16,244	4,217	4,327	2,142	699	1,634
1909	152,697	17,989	4,121	4,856	1,891	846	1,846
1910	156,687	19,052	4,280	5,176	1,916	1,253	1,862
1911	161,991	19,967	4,557	5,465	1,777	1,341	1,900
1912	166,645	20,350	4,694	5,831	1,815	1,526	2,228
1913	172,617	21,251	4,647	6,154	1,837	1,664	2,318

* Excludes those receiving tuition from the Correspondence Schools (primary and secondary).

Year	Number of Scholars* Receiving						University Students (Excluding Affiliated Agricultural Colleges)
	Primary Education at			Secondary Education at			
	Public Schools	Registered Private Schools	Maori Village Schools	Secondary (Including Endowed and Combined) Schools	District High Schools	Technical Schools	Registered Private Schools and Maori Secondary Schools
1914	178,969	22,247	5,072	6,418	1,896	1,839	850
1915	183,719	22,477	5,191	6,488	2,102	1,955	992
1916	186,350	23,635	5,132	7,052	2,115	2,105	1,004
1917	188,754	25,685	5,173	7,590	2,180	2,347	1,206
1918	193,345	26,371	5,064	8,384	2,283	2,747	1,366
1919	194,586	20,977	5,198	9,068	2,159	2,926	1,497
1920	198,460	22,193	5,508	9,196	2,157	2,766	1,439
1921	205,955	23,924	5,822	10,030	2,176	3,349	1,634
1922	211,081	24,861	6,161	10,736	2,606	4,202	1,998
1923	212,460	26,010	6,186	11,619	2,818	5,054	2,134
1924	213,768	26,302	6,310	12,010	2,900	5,369	2,473
1925	215,063	25,933	6,386	12,514	3,136	5,132	2,511
1926	219,017	26,778	6,591	13,651	3,299	5,700	2,794
1927	221,157	27,358	6,620	14,190	3,581	5,703	2,932
1928	219,950	26,596	6,671	15,038	3,880	6,061	3,430
1929	219,166	26,977	6,979	15,498	4,000	6,114	3,698
1930	219,235	26,451	7,070	16,149	4,240	6,953	3,825
1931	218,829	26,726	7,505	16,344	4,944	7,397	3,777
1932	207,635	26,410	7,315	15,948	4,486	7,106	3,616
1933	200,968	26,428	7,340	15,715	4,511	7,149	3,586
1934	200,070	26,636	7,587	15,901	4,365	7,183	3,651
1935	197,689	26,869	7,876	16,162	4,593	7,222	3,968
1936	203,552	27,709	9,175	16,556	4,070	7,422	4,241
1937	208,036	27,931	9,642	16,811	4,389	7,833	4,613
1938	206,375	28,386	9,832	17,764	4,905	8,149	4,902
1939	205,415	28,280	10,403	18,176	5,401	8,481	5,137
1940	204,276	28,454	10,730	17,710	5,253	8,009	5,197
1941	204,332	28,614	10,916	16,986	5,033	7,371	5,325
1942	204,200	28,467	11,009	16,805	4,852	7,923	5,357
1943	204,372	29,328	11,274	18,324	5,197	8,436	6,035
1944	206,220	29,717	11,793	20,829	6,187	10,233	6,927
1945	209,899	30,401	12,190	21,566	6,872	10,865	7,831
1946	218,614	31,506	12,654	21,936	6,656	11,712	8,419
1947	227,108	32,604	13,170	21,847	6,666	12,328	8,913
1948	233,304	33,360	13,254	22,059	6,895	12,136	8,809
1949	242,038	34,960	13,288	22,617	7,320	12,504	9,182
1950	254,533	36,748	13,426	23,539	6,992	13,859	9,439
1951	267,541	38,512	13,663	24,628	7,195	14,871	9,946
1952	285,040	40,444	14,076	26,411	7,946	16,179	10,558

* Excludes those receiving tuition from the Correspondence Schools (primary and secondary).

JUSTICE

Year	Summary Convictions in Magistrates' Courts*		Total Convictions or Sentences in Superior Courts		Total Distinct Persons Sentenced in Superior Courts		Prisoners in Gaol at End of Year (Undergoing Sentence)	
	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Population
1902	22,455	26.70	349	0.42	339	0.40	602	0.75
1903	25,186	29.17	398	0.46	380	0.44	688	0.83
1904	25,672	28.90	527	0.59	519	0.58	701	0.78
1905	25,371	27.78	449	0.49	433	0.47	760	0.82
1906	27,670	29.33	445	0.47	433	0.46	833	0.87
1907	30,901	31.96	490	0.51	481	0.50	791	0.81
1908	30,852	31.08	543	0.55	532	0.54	815	0.81
1909	31,151	30.55	552	0.54	544	0.53	877	0.85
1910	32,435	31.17	495	0.48	494	0.47	843	0.80
1911	33,029	31.05	453	0.43	427	0.40		

Year	Summary Convictions in Magistrates' Courts*		Total Convictions or Sentences in Superior Courts		Total Distinct Persons Sentenced in Superior Courts		Prisoners in Gaol at End of Year (Undergoing Sentence)	
	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Mean Population	Number	Rate Per 1,000 of Population
1933	35,043	23.41	1,513	0.98	531	0.34	1,410	0.91
1934	35,752	23.04	1,213	0.78	490	0.32	1,199	0.77
1935	36,230	23.19	1,148	0.73	472	0.30	1,112	0.71
1936	39,517	25.09	1,178	0.75	462	0.29	915	0.58
1937	42,726	26.87	1,318	0.83	507	0.32	790	0.49
1938	49,651	30.90	1,322	0.82	488	0.30	777	0.48
1939	52,288	32.11	1,489	0.91	571	0.35	895	0.55
1940	46,110	28.16	1,394	0.85	547	0.33	863	0.53
1941	39,636	24.30	1,496	0.92	542	0.33	988	0.61
1942	†	†	1,460	0.89	457	0.28	1,034	0.63
1943	†	†	1,378	0.84	494	0.30	1,024	0.62
1944	†	†	1,441	0.87	560	0.34	945	0.56
1945	†	†	1,885	1.11	619	0.37	998	0.58
1946	†	†	1,713	0.97	655	0.37	992	0.56
1947	40,990	22.79	1,948	1.08	740	0.41	1,088	0.60
1948	44,119	24.05	2,323	1.27	717	0.39	986	0.53
1949	50,000	26.71	1,718	0.92	676	0.36	941	0.50
1950	51,606	27.03	1,583	0.83	642	0.34	1,043	0.54
1951	56,128	28.82	1,574	0.81	644	0.33	1,040	0.53
1952	73,900	37.05	1,706	0.85	704	0.35	1,083	0.54

* Excluding Children's Court cases from year 1914 onwards.
† Not available.

AGRICULTURE

Season	Wheat for Threshing				Oats for Threshing				
	Area	Yield	Yield Per Acre	Area	Yield	Yield Per Acre	Area	Yield	Yield Per Acre
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels
1902-03	194,355	7,457,915	38.37	483,659	21,766,708	45.00			
1903-04	230,346	7,891,654	34.26	409,390	15,107,237	38.57			
1904-05	258,015	9,123,673	35.36	342,189	14,553,611	42.53			
1905-06	222,183	6,798,934	30.60	354,291	12,707,982	35.86			
1906-07	206,185	5,605,252	27.18	351,929	11,201,789	31.83			
1907-08	193,031	5,567,139	28.84	386,885	15,021,861	38.82			
1908-09	252,391	8,772,790	34.75	406,908	18,906,788	46.46			
1909-10	311,000	8,661,100	28.00	377,000	13,804,000	37.00			
1910-11	322,167	8,290,221	25.73	302,827	10,118,917	33.41			
1911-12	215,528	7,261,138	33.69	403,668	19,662,668*	48.71			
1912-13	189,869	5,179,626	27.28	386,786	13,583,924*	35.12			
1913-14	166,774	5,231,700	31.37	361,741	14,740,946*	40.75			
1914-15	229,600	6,644,336	28.94	287,561	11,436,301*	39.77			
1915-16	329,207	7,108,360	21.59	212,888	7,653,208	35.98			
1916-17	217,743	5,051,227	23.19	177,534	5,371,436	30.29			
1917-18	280,978	6,807,536	24.23	156,202	4,942,759	31.64			
1918-19	208,030	6,567,629	31.57	172,686	6,884,609	39.87			
1919-20	139,611	4,559,934	32.66	179,800	6,967,862	38.75			
1920-21	219,985	6,872,262	31.24	147,559	5,225,115	35.41			
1921-22	352,918	10,565,275	29.94	170,655	6,752,663	39.56			
1922-23	275,775	8,395,023	30.44	143,090	5,688,157	39.75			
1923-24	173,864	4,174,537	24.01	63,842	1,964,511	30.77			
1924-25	166,964	5,447,758	32.62	147,387	5,707,174	38.72			
1925-26	151,673	4,617,041	30.44	102,485	4,115,606	40.14			
1926-27	220,083	7,952,442	36.13	117,326	4,997,535	42.58			
1927-28	260,987	9,541,444	36.56	88,223	3,852,687	43.66			
1928-29	255,312	8,832,864	34.60	73,101	3,065,113	41.93			
1929-30	235,942	7,239,556	30.68	67,722	3,002,288	44.33			
1930-31	249,014	7,579,153	30.44	87,152	3,376,609	38.74			
1931-32	268,756	6,582,698	24.49	68,690	2,818,152	41.03			
1932-33	302,531	11,054,972	36.54	116,206	5,132,183	44.16			
1933-34	286,271	9,036,017	31.56	78,343	3,242,500	41.39			
1934-35	225,389	5,933,245	26.32	52,516	1,890,145	35.99			
1935-36	248,639	8,859,223	35.63	77,502	3,302,642	42.61			
1936-37	221,790	7,168,963	32.32	74,772	3,525,430	47.15			
1937-38	185,949	6,042,981	32.50	57,917	2,640,915	45.60			
1938-39	189,281	5,564,136	29.40	54,422	2,604,817	47.86			
1939-40	257,532	8,010,089	31.10	49,751	2,081,106	41.83			
1940-41	243,197	8,305,865	34.15	71,758	3,114,946	43.41			
1941-42	258,002	8,671,244	33.61	70,796	3,444,812	48.66			
1942-43	286,998	9,819,342	34.21	56,291	2,808,774	49.90			
1943-44	233,786	7,208,485	30.83	39,652	1,834,310	46.26			
1944-45	183,886	6,992,204	38.02	77,684	4,209,143	54.18			
1945-46	161,049	5,439,041	33.77	57,278	2,796,877	48.83			
1946-47	141,407	5,368,120	37.96	55,297	2,686,211	48.58			
1947-48	123,751	4,539,017	36.68	63,159	2,853,517	45.18			
1948-49	146,707	5,958,026	40.61	78,300	3,718,597	47.49			
1949-50	125,749	4,889,668	39.15	52,645	2,430,252	49.37			
1950-51	144,763	6,271,928	43.33	35,808	1,827,953	51.05			

* Yield probably overstated for these four seasons, owing to total being obtained by applying ascertained averages to areas returned by farmers as sown for threshing. Some areas returned in these years as intended for threshing would appear to have been eventually utilized for other purposes.

Season	Wheat for Threshing			Oats for Threshing		
	Area	Yield	Yield Per Acre	Area	Yield	Yield Per Acre
1951-52	89,955	3,890,167	43.25	45,561	2,469,530	54.20
1952-53	127,225	4,525,298	35.57	49,087	2,385,129	48.59

* Yield probably overstated for these four seasons, owing to total being obtained by applying ascertained averages to areas returned by farmers as sown for threshing. Some areas returned in these years as intended for threshing would appear to have been eventually utilized for other purposes.

LIVESTOCK

Year	Horses	Total Cattle	Dairy Cows ¹	Sheep	Pigs
1903	286,955	1,460,663	428,773	18,954,553	193,740
1904	298,714	1,593,547	468,125	18,280,806	226,591
1905	314,322	1,736,850	498,241	19,130,875	255,320
1906	326,537	1,810,936	517,220	20,108,471	249,727
1907	342,608	1,851,750	543,927	20,983,772	242,273
1908	352,832	1,816,299	541,363	22,449,053	241,128
1909	363,259	1,773,326	536,629	23,480,707	245,092
1910	"	"	"	24,269,620	"
1911	404,284	2,020,171	633,733	23,996,126	348,754
1912	"	"	"	23,750,153	"
1913	"	"	"	24,191,810	"
1914	"	"	"	24,798,763	"
1915	"	"	"	24,901,421	"
1916	371,331	2,417,491	750,323	24,788,150	297,501
1917	373,600	2,575,230	684,032	25,270,386	283,770
1918	378,050	2,869,465	710,561	26,538,302	258,694
1919	363,188	3,035,478	732,253	25,828,554	235,347
1920	346,407	3,101,945	782,757	23,919,970	266,829
1921	337,259	3,139,223	890,220	23,285,031	349,892
1922	332,105	3,323,223	1,015,325	22,222,259	384,333
1923	330,818	3,480,694	1,124,671	23,081,439	400,889
1924	330,430	3,565,497	1,184,977	23,775,776	414,271
1925	326,830	3,503,744	1,195,967	24,547,955	440,115
1926	314,867	3,452,486	1,181,441	24,904,993	472,534
1927	303,713	3,257,729	1,181,545	25,649,016	520,143
1928	307,160	3,273,769	1,242,729	27,133,810	586,898
1929	298,966	3,445,790	1,291,204	29,051,382	556,732
1930	297,195	3,770,223	1,389,541	30,841,287	487,793
1931	282,729	4,043,560	1,478,947	29,792,516	468,533
1932	267,980	4,035,418	1,562,079	28,691,788	505,755
1933	263,883	4,155,058	1,703,328	27,755,966	583,921
1934	260,892	4,264,163	1,795,817	28,649,038	652,732
1935	259,972	4,256,534	1,807,377	29,076,754	755,094
1936	263,156	4,217,113	1,802,773	30,113,704	800,802
1937	264,785	4,352,136	1,784,820	31,305,818	794,758
1938	265,153	4,469,117	1,743,190	32,378,774	748,805
1939	261,789	4,527,983	1,723,893	31,897,091	675,802
1940	258,567	4,496,067	1,719,289	31,062,875	706,340
1941	253,052	4,538,908	1,759,018	31,751,660	761,519
1942	248,597	4,604,749	1,756,654	"	681,016
1943	236,455	4,447,548	1,714,959	"	604,574
1944	225,823	4,439,258	1,647,920	33,200,298	573,362
1945	217,689	4,590,926	1,678,943	33,974,612	593,828
1946	216,335	4,666,782	1,661,944	"	549,391
1947	206,575	4,633,800	1,657,690	32,681,799	545,874
1948	203,885	4,716,287	1,713,532	32,483,138	548,177
1949	196,055	4,722,836	1,746,753	32,844,918	544,841
1950	194,877	4,954,906	1,850,089	33,586,558	555,245
1951	183,972	5,060,024	1,898,197	34,786,386	564,335
1952	173,922	5,164,689	1,905,334	35,384,270	565,723
1953	158,065	5,445,963	1,962,492	36,192,935	627,830

* Not available.
† Figures from 1917 onwards include dairy cows in milk only.

NOTE.—With the exception of sheep, figures from 1931 onwards exclude stock within boroughs.

TRADE

Year	Excluding Specie ^a						Specie ^a		
	Exports			Imports			Exports	Imports	
	Total	Per Head of Mean Population	Total Per Head of Mean Population	Total	Per Head of Mean Population	Total Per Head of Mean Population	£	£	
1903	14,971,926	17	6	10	12,075,959	13	9	38,452	712,716
1904	14,738,750	16	11	11	12,900,030	14	10	9,598	391,664
1905	15,642,069	17							

Year	Excluding Specie*						Specie*			
	Exports			Imports			Exports	Imports		
	Total	Per Head of Mean Population	Total Per Head of Mean Population	Total	Per Head of Mean Population	Total Per Head of Mean Population				
1909	19 636.151	19	5	2	14 817.462	14	10	8	25 845	857 257
1910	22 152.473	21	5	10	16 748.223	16	11	11	27 736	303 360
1911	18 980.185	17	16	10	18 782.608	17	13	1	48 305	763 271
1912	21 511.626	19	15	1	20 576.579	18	17	11	258 955	399 995
1913	22 810.363	20	7	11	21 653.632	19	7	2	176 359	634 760
1914	26 253.925	23	0	6	21 144.227	18	10	11	7 522	711 869
1915	31 430.822	27	7	0	20 658.720	17	19	6	318 090	1 070 114
1916	33 281.057	28	19	2	25 045.403	21	15	10	5 880	1 293 880
1917	31 517.072	27	8	8	20 742.130	18	1	1	70 475	177 135
1918	28 480.578	24	14	1	24 131.792	20	18	8	35 610	102 215
1919	53 907.925	45	4	0	30 309.167	25	8	3	62 150	362 531
1920	46 405.366	37	7	0	61 553.853	49	10	11	36 580	41 975
1921	44 828.460	35	2	3	42 744.122	33	9	8	367	198 321
1922	42 725.949	32	14	9	34 826.074	26	13	8	300	186 487
1923	45 939.793	34	11	9	43 363.983	32	13	0	27 372	14 510
1924	52 509.223	38	16	5	48 527.603	35	17	6	103 488	
1925	55 243.047	39	18	1	52 425.757	37	17	4	19 225	30 650
1926	45 268.924	32	0	6	49 811.763	35	4	8	6 651	77 800
1927	48 496.354	33	14	0	44 782.666	31	2	5		280
1928	55 570.381	38	3	3	44 844.102	30	16	0	618 100	42 164
1929	54 930.063	37	5	7	48 734.472	33	1	6	649 000	63 505
1930	44 940.517	30	2	0	44 339.654	29	14	0	175	363 087
1931	34 950.698	23	1	8	26 498.151	17	10	0	202 330	56 155
1932	35 609.919	23	6	5	24 646.006	16	2	10	1 355 861	55 510
1933	41 005.919	26	12	8	25 581.366	16	12	4	296 032	424 704
1934	47 342.847	30	17	3	31 339.552	20	4	0	2 283 900	1 242 000
1935	46 538.381	29	15	9	36 317.267	23	4	11	521 000	381 821
1936	56 751.940	36	0	7	44 258.886	28	1	11	45 245	36 601
1937	66 713.379	41	19	2	56 160.695	35	6	5	3 500	318 510
1938	58 376.283	36	6	8	55 422.189	34	9	10	31 805	31 274
1939	58 049.316	35	12	11	49 387.183	30	6	6	2 795	25 364
1940	73 741.133	45	0	9	48 997.669	29	18	6		36 646
1941	67 479.413	41	7	6	49 167.010	30	2	11	10 015	205 409
1942	81 284.637	49	11	6	53 856.012	32	16	11	25 375	147 010
1943	71 862.598	43	18	9	95 242 330†	58	4	7	1 240	461 800
1944	77 786.946	46	19	7	86 397 212†	52	3	7	400	139 640
1945	81 631 276	48	3	5	55 088 180	32	10	2	4 400	208 148
1946	101 302 266	57	11	6	71 571 333	40	13	6	4 532	418 970
1947	129 419 647	71	19	5	128 640 826	71	10	9	10 375	184 990
1948	147 821 025	80	11	5	128 534 252	70	1	2	55 169	624 755
1949	147 280 951	78	13	9	120 033 472	64	2	7	570 220	1 040 725
1950	183 752 291	96	5	0	157 942 876	82	14	8	514 455	1 69 823
1951	248 127 172	127	8	1	206 533 515	106	1	0	280 150	290 108
1952	240 560 704	120	10	3	229 447 309	114	18	11	26 943	84 567
1953†	235 596 100	114	19	9	163 502 980	79	16	1	9 084	107 106

* Figures are in terms of New Zealand currency.

† Specie exports and imports represent face value.

‡ Increases mainly due to imports of defence materials and equipment.

§ Provisional.

NOTE.—As from 1 January 1952 imports were valued at c.d.v. Prior to that date the valuation used was c.d.v. plus 10 per cent.

Year	Exports of New Zealand Produce					
	Wool		Frozen Meat*		Tallow	
	Quantity	Value	Quantity	Value	Quantity	Value
	lb.	£	Cwt.	£	Cwt.	£
1903	155 128 381	4 041 274	2 378 650	3 197 043	396 940	517 871
1904	144 647 376	4 673 826	1 912 979	2 793 599	322 480	357 974
1905	139 912 737	5 381 333	1 690 684	2 694 432	318 942	347 888
1906	154 384 568	6 765 655	2 025 507	2 877 031	378 400	455 026
1907	171 635 595	7 657 278	2 354 808	3 420 664	414 880	560 965
1908	162 518 481	5 332 781	2 120 303	3 188 515	372 520	481 335
1909	189 683 703	6 305 888	2 572 604	3 601 093	484 160	648 452
1910	204 368 957	8 308 410	2 654 196	3 850 777	520 180	756 841
1911	169 424 811	6 491 707	2 250 565	3 503 400	413 120	607 257
1912	188 361 790	7 105 483	2 573 238	3 909 569	470 900	684 739
1913	186 533 036	8 057 620	2 578 693	4 449 933	454 860	663 088
1914	220 472 898	9 318 114	3 229 969	5 863 062	490 300	694 348
1915	196 570 114	10 387 875	3 591 260	7 794 395	535 260	780 828
1916	185 506 859	12 386 074	3 326 045	7 271 318	449 440	785 339
1917	178 274 486	12 175 366	2 446 945	5 982 404	251 980	553 016
1918	108 724 575	7 527 266	2 036 904	4 957 576	328 420	847 618
1919	274 246 613	19 559 537	3 822 683	9 628 292	937 480	2 680 006
1920	162 327 176	11 865 827	4 629 282	11 673 696	540 820	1 748 773

* Includes exports of chilled beef.

† Provisional.

Year	Exports of New Zealand Produce					
	Wool		Frozen Meat*		Tallow	
	Quantity	Value	Quantity	Value	Quantity	Value
1921	158 714 828	5 221 479	4 322 754	11 164 345	554 240	867 298
1922	321 525 562	11 882 463	3 518 004	8 387 461	529 900	750 574
1923	217 566 091	10 904 658	3 043 910	9 012 627	504 860	785 668
1924	206 189 911	15 267 544	3 213 574	9 499 877	479 760	799 230
1925	205 726 856	17 739 736	3 414 205	11 174 567	500 760	895 061
1926	213 154 399	11 830 190	3 034 356	8 656 213	422 560	741 045
1927	220 500 720	12 961 744	3 364 965	9 104 621	477 500	714 441
1928	226 804 544	16 679 098	3 793 828	10 309 662	514 960	804 271
1929	234 955 978	15 350 206	3 336 200	9 883 277	416 640	693 614
1930	197 239 614	7 664 362	4 036 639	10 937 382	492 560	683 571
1931	211 718 868	5 515 376	4 138 806	8 892 555	465 280	413 080
1932	238 179 062	5 742 821	4 645 480	8 436 306	507 540	462 081
1933	286 307 441	7 422 266	5 203 113	9 845 627	560 400	516 063
1934	255 796 783	12 516 425	4 969 447	11 886 955	553 240	480 354
1935	222 661 403	7 097 133	5 206 514	12 768 968	505 540	630 638
1936	314 409 402	13 293 706	5 119 804	13 239 414	521 900	628 310
1937	282 339 148	19 070 240	5 410 912	14 689 616	518 800	647 969
1938	271 283 233	12 185 483	5 373 308	15 092 059	592 260	524 775
1939	277 391 713	11 665 909	5 906 251	15 390 801	582 740	456 527
1940	300 288 687	16 875 463	6 976 625	19 681 343	682 760	707 721
1941	215 743 296	12 613 371	5 284 848	16 595 290	786 560	818 370
1942	307 547 296	18 336 507	5 741 389	17 777 436	1 035 580	1 143 879
1943	206 822 348	13 483 544	4 412 657	13 801 632	879 100	1 071 232
1944	188 599 359	12 711 407	4 156 054	12 482 008	532 480	608 263
1945	166 225 681	12 717 034	5 653 843	17 597 983	614 520	909 499
1946	365 404 468	26 596 470	6 753 577	23 239 620	495 120	1 063 156
1947	375 326 189	31 970 041	6 955 615	29 353 371	514 500	2 366 742
1948	421 021 399	44 504 995	6 869 914	28 623 955	401 260	2 154 201
1949	429 670 916	46 553 761	6 882 058	27 229 783	508 633	2 531 480
1950	393 973 500	74 053 007	6 761 677	28 629 106	591 911	2 140 842
1951	316 863 280	128 176 051	5 496 023	25 393 538	593 158	2 553 256
1952	438 107 606	81 998 141	7 711 215	40 474 955	972 307	4 716 754
1953†	390 614 877	84 369 952	6 533 287	39 881 350	795 264	1 925 093

* Includes exports of chilled beef.

† Provisional.

Year	Exports of New Zealand Produce					
	Butter		Cheese		Gold	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	£	Cwt.	£	Oz.	£
1903	285 106	1 318 067	74 780	194 998	533 314	2 037 832
1904	314 360	1 380 460	84 526	185 486	520 323	1 987 501
1905	305 722	1 408 557	88 562	205 171	520 485	2 093 936
1906	320 225	1 560 235	131 206	341 002	563 843	2 270 904
1907	328 441	1 615 345	236 833	662 355	508 210	2 027 490
1908	229 971	1 171 182	280 798	783 419	506 381	2 004 799
1909	321 108	1 639 380	400 607	1 105 390	506 371	2 006 900
1910	356 535	1 811 975	451 915	1 195 373	478 286	1 896 314
1911	302 387	1 576 917	439 174	1 192 057	454 837	1 815 251
1912	378 117	2 088 809	577 070	1 680 393	343 163	1 345 131
1913	372 258	2 061 651	611 663	1 770 297	376 161	1 459 499
1914	434 067	2 338 576	863 776	2 564 125	227 954	895 267
1915	420 144	2 700 625	817 258	2 730 211	422 825	1 694 553
1916	558 632	2 632 293	949 416	3 314 310	292 620	1 199 212
1917	254 397	2 031 551	885 743	3 949 251	218 624	903 888
1918	431 023	3				

Exports of New Zealand Produce						
Year	Butter		Cheese		Gold	
	Quantity	Value	Quantity	Value	Quantity	Value
1940	2,622.700	18,228.026	2,033.506	8,233.486	188.459	1,948.280
1941	2,263.135	15,777.864	2,366.235	9,833.861	176.242	1,830.365
1942	2,344.622	16,477.943	2,687.621	11,860.471	167.246	1,726.540
1943	1,985.187	14,392.759	2,009.947	9,125.958	149.563	1,542.793
1944	2,306.804	18,553.484	1,554.059	7,443.632	138.048	1,423.556
1945	2,069.532	19,277.704	1,748.514	9,519.363	121.084	1,262.884
1946	2,035.875	19,841.455	1,514.917	8,448.321	111.531	1,184.783
1947	2,552.467	28,835.898	1,740.879	11,621.088	98.557	1,035.406
1948	2,712.387	33,758.188	1,512.468	11,197.024	58.400	609.259
1949	2,952.040	35,449.918	1,878.756	12,674.359	63.854	607.696
1950	2,749.540	35,566.993	1,997.801	14,535.757	110.486	1,311.095
1951	2,942.666	41,361.934	2,132.372	16,650.131	68.929	843.792
1952	3,670.334	55,929.348	1,825.105	15,527.233	66.616	798.236
1953	3,178.447	51,385.252	2,027.209	18,373.114	29.674	364.912

* Provisional.

Exports of New Zealand Produce						
Year	Rabbit Skins		Grass and Clover Seeds		Milk and Cream (Dried and Condensed)	
	Quantity	Value	Quantity	Value	Quantity	Value
	Number	£	Cwt.	£	lb.	£
1903	6,101,899	40,727	61,665	109,049	636,942	12,588
1904	6,103,930	40,843	46,293	95,835	263,243	5,230
1905	8,831,107	66,983	44,648	80,598	755,039	16,597
1906	5,454,738	50,686	50,638	89,022	484,493	10,420
1907	5,513,900	53,757	36,738	87,300	81,411	1,976
1908	7,148,625	66,529	15,396	34,881	80,071	1,619
1909	7,533,137	89,533	71,541	94,410	91,680	3,014
1910	9,103,954	132,773	54,946	113,568	235,590	5,326
1911	7,455,288	76,712	18,438	40,317	281,527	6,898
1912	8,937,035	118,234	36,344	69,694	32,392	671
1913	6,267,608	86,756	35,589	60,492	17,184	359
1914	4,512,171	48,388	39,572	73,551	47,983	791
1915	6,090,872	50,004	13,980	42,314	1,175,106	20,388
1916	5,896,410	76,405	9,841	34,266	984,035	23,780
1917	4,944,607	105,321	16,484	48,655	4,103,849	153,538
1918	7,854,152	299,765	15,995	42,215	7,061,830	341,797
1919	14,340,007	775,118	49,996	249,886	10,494,679	579,266
1920	14,363,216	830,024	23,821	147,369	13,950,026	795,612
1921	13,922,446	448,180	37,219	156,114	18,596,392	1,109,331
1922	15,487,225	567,864	70,120	285,451	11,421,332	529,650
1923	14,233,417	472,491	47,031	175,754	16,220,997	513,495
1924	20,444,390	740,975	36,331	149,083	13,481,253	505,098
1925	19,708,586	843,416	45,368	151,164	13,742,627	425,738
1926	17,135,599	829,165	57,726	200,380	11,324,780	345,072
1927	12,928,669	682,658	90,362	255,798	12,420,494	346,271
1928	12,104,072	882,148	50,238	162,452	17,218,653	392,452
1929	9,122,917	361,949	57,869	182,537	13,736,098	352,587
1930	7,206,992	142,249	36,560	166,221	15,200,835	351,339
1931	6,174,092	108,841	40,953	155,410	12,845,394	246,483
1932	6,660,140	70,016	34,337	109,632	16,033,175	269,121
1933	10,378,388	224,199	80,308	152,458	17,640,072	315,964
1934	13,035,015	257,585	48,751	166,511	21,562,450	407,708
1935	13,536,745	395,090	71,649	215,738	20,783,080	370,890
1936	16,928,931	763,961	79,982	249,861	23,742,354	405,801
1937	12,050,438	557,132	58,107	205,988	24,713,648	364,676
1938	10,268,012	247,390	45,484	233,372	20,536,678	307,603
1939	11,190,294	262,904	45,829	284,514	24,545,704	377,506
1940	10,412,156	401,716	45,742	369,035	23,440,047	419,176
1941	13,403,673	1,006,238	88,191	563,673	29,641,506	699,533
1942	11,818,761	745,742	82,499	592,681	27,585,510	683,578
1943	12,290,284	903,241	90,720	665,113	23,190,806	598,228
1944	13,886,065	974,909	158,475	1,453,090	18,429,814	534,716
1945	17,670,078	1,204,791	166,553	1,797,827	33,835,430	1,021,128
1946	15,755,939	1,451,301	150,598	1,942,072	38,069,543	1,202,323
1947	16,654,496	1,120,219	147,011	1,663,365	44,757,894	1,651,396
1948	13,471,098	754,651	174,843	1,700,644	59,448,665	2,209,805
1949	10,269,104	318,589	161,993	1,523,426	77,033,426	2,866,116
1950	9,918,514	346,865	164,114	2,083,630	91,015,251	3,321,883
1951	5,745,460	203,232	88,428	1,246,014	104,637,883	3,952,028
1952	2,839,342	63,360	163,452	2,106,627	140,519,662	6,563,941
1953	2,622,940	84,428	179,247	1,869,556	141,098,067	6,277,745

* Provisional.

Exports of New Zealand Produce						
Year	Cattle Hides and Calf Skins			Sheep Skins		
	Cattle Hides	Calf Skins	Aggregate Value	With Wool	Without Wool	Aggregate Value
	Number	Number	£	Number	Number	£
* Not available.						
† Provisional.						

Exports of New Zealand Produce						
Year	Cattle Hides and Calf Skins		Sheep Skins		Aggregate Value	With Wool
	Cattle Hides	Calf Skins	Without Wool	Aggregate Value		
1903	"	"	"	"	683,251	6,459,280
1904	"	"	"	"	533,413	5,504,047
1905	"	"	"	"	657,610	4,273,581
1906	"	"	"	"	716,011	5,835,217
1907	"	"	"	"	830,130	6,186,614
1908	"	"	"	"	718,428	5,603,688
1909	"	"	"	"	1,096,080	6,419,334
1910	"	"	"	"	983,492	6,827,094
1911	"	"	"	"	901,088	6,718,907
1912	"	"	"	"	920,301	7,000,671
1913	"	"	"	"	933,152	7,238,123
1914	214,483	182,128	408,307	918,562	7,607,049	856,832
1915	269,656	234,164	571,861	499,064	8,594,786	826,507
1916	296,551	206,024	672,182	397,895	7,937,675	917,633
1917	176,747	50,902	453,937	2,686	6,525,367	1,300,188
1918	206,919	106,238	530,431		8,741,538	1,813,589
1919	318,641	106,807	963,554		8,501,756	1,694,867
1920	284,666	251,257	1,125,811		9,221,552	3,060,212
1921	329,032	440,712	569,163	85,512	8,350,886	972,116
1922	239,930	464,563	504,334	645,002	9,499,851	980,189
1923	339,503	609,155	746,477	706,013	7,540,787	1,121,695
1924	469,588	706,847	832,009	689,401	8,136,265	1,513,477
1925	495,535	702,029	940,140	471,127	8,224,185	1,989,289
1926	449,103	751,448	755,537	706,699	8,525,194	1,544,273
1927	397,792	774,141	922,825	972,530	8,945,923	1,550,812
1928	431,409	769,338	1,228,105	1,364,782	8,817,267	1,924,097
1929	290,804	667,915	677,925	1,072,017	8,559,739	1,812,093
1930	290,964	656,802	510,683	1,542,025	9,477,561	1,516,738
1931	308,843	652,747	337,296	1,665,811	10,419,882	805,838
1932	304,053	845,707	306,053	1,641,202	11,999,210	694,217
1933	401,327	890,687	544,385	3,380,114	11,813,685	1,043,208
1934	476,235	1,109,999	627,371	2,949,971	9,243,726	1,250,091
1935	521,745	1,266,258	685,873	2,405,251	11,765,293	1,275,464
1936	430,942	1,177,847	761,511	1,780,332	10,847,249	1,703,130
1937	506,460	1,162,952	1,031,076	1,743,982	10,759,059	2,246,015
1938	516,452	1,246,993	742,806	1,824,026	12,353,566	1,369,324
1939	528,157	1,103,182	781,123	1,932,672	13,223,864	1,460,072
1940	519,510	1,032,165	860,062	1,798,801	11,340,128	1,931,957
1941	384,885	1,015,593	1,003,051	769,580	17,744,052	2,007,376
1942	356,767	931,058	1,064,625	1,013,285	14,590,448	2,806,723
1943	417,608	943,522	1,129,174	776,579	14,000,046	2,264,080
1944	304,848	888,250	899,560	815,270	14,425,420	2,386,648
1945	329,089	795,184	1,040,448	904,952	14,323,785	2,402,250
1946	392,322	659,645	1,479,882	784,410	14,694,292	2,490,673
1947	472,972	757,186	2,917,094	1,415,789	15,624,349	6,014,194
1948	475,917	665,522	2,886,596	868,570	16,288,728	5,657,920
1949	327,766	1,121,657	2,339,561	795,492	16,620,081	3,855,629
1950	363,319	870,402	2,601,175	670,459	16,790,703	6,736,162
1951	335,966	977,477	2,991,798	719,097	13,985,552	9,033,299
1952	533,342	1,577,712	3,258,008	1,099,802	18,992,321	6,415,907
1953	399,954	957,210	2,397,893	1,238,848	17,014,982	6,778,191

* Not available.

† Provisional.

FACTORY PRODUCTION

Year	Number of Establishments	Persons Engaged		Salaries and Wages Paid		Cost of Materials	Other Expenses	Value of Output	Added Value
		£	£	£	£				
1910-11	3,483	45,924	4,786,698	18,782,929	"	"	"	29,317,023	10,534,094
1915-16	3,755	48,744	5,791,704	30,197,784	"	"	"	43,034,033	12,836,249
1918-19	3,478	58,137	8,501,310	38,803,191	"	"	"	55,310,864	16,507,673
1919-20	3,661	64,107	10,512,100	45,107,568	"	"	"	66,169,253	21,061,685
1920-21	4,022	69,681	13,172,996	52,933,494	"	"	"	77,828,013	24,891,519
1921-22	4,169	67,464	12,996,077	39,273,412	"	"	"	65,672,259	26,398,147
1922-23	4,325	70,705	13,075,494	44,340,467	"	"	"	72,343,032	28,002,565
1923-24	4,451	74,510	13,851,890	46,253,40					

Year	Number of Establishments	Persons Engaged	Salaries and Wages Paid	Cost of Materials	Other Expenses	Value of Output	Added Value
1932-33	4,993	68,921	12,048,148	42,726,043	8,097,042	66,109,455	23,383,412
1933-34	5,028	72,651	12,106,500	47,067,564	8,108,890	71,770,872	24,703,308
1934-35	5,270	79,358	13,244,373	52,277,285	8,809,912	79,324,473	27,047,188
1935-36	5,536	86,588	14,844,367	60,172,848	9,374,369	90,014,748	29,841,900
1936-37	5,728	96,401	18,333,077	70,938,165	10,481,253	105,941,722	35,003,557
1937-38	5,924	102,344	20,981,587	75,371,558	10,540,208	113,691,556	38,319,998
1938-39	6,146	102,535	22,270,010	75,634,903	10,001,804	114,447,426	38,812,523
1939-40	6,342	108,722	24,460,549	85,243,383	11,043,557	129,061,826	43,818,443
1940-41	6,395	113,999	26,946,799	98,547,804	11,978,820	147,153,559	48,605,755
1941-42	6,367	117,214	29,504,299	102,260,860	12,812,901	155,566,195	53,305,335
1942-43	6,127	114,590	32,256,071	107,447,799	13,331,973	165,936,284	58,488,485
1943-44	6,202	117,864	34,433,075	112,883,932	14,516,235	175,686,689	62,802,757
1944-45	6,485	122,414	37,379,062	122,695,106	15,481,351	189,800,764	67,105,658
1945-46	6,991	128,208	41,499,113	123,508,438	16,278,562	195,258,614	71,750,176
1946-47	7,642	134,435	45,336,217	138,533,722	18,247,043	218,106,182	79,572,460
1947-48	7,966	140,267	52,132,689	181,773,218	21,240,976	272,155,333	90,382,115
1948-49	8,000 ²	142,500 ²	56,000,000 ²	203,000,000 ²	23,350,000 ²	301,000,000 ²	98,000,000 ²
1949-50	8,027	144,309	61,316,840	221,228,647	26,334,762	331,703,908	110,475,261
1950-51	8,318	148,940	70,386,677	274,165,777	30,528,205	395,045,818	120,880,041
NEW SERIES							
COMMENCED 1951-52 WITH COMPARABLE TOTALS FOR CERTAIN PREVIOUS YEARS							
1938-39	6,002	93,638	19,926,915	71,173,314	9,315,674	106,607,919	35,434,605
1941-42	6,225	108,275	26,812,793	96,481,965	12,047,029	145,608,166	49,126,201
1944-45	6,340	113,534	34,196,853	116,476,197	14,556,029	178,585,783	62,109,586
1947-48	7,822	130,504	47,940,238	174,845,301	20,076,507	259,181,232	84,335,931
1949-50	7,815	133,245	56,231,281	215,008,899	24,139,996	317,342,946	102,334,047
1950-51	8,113	138,435	65,005,458	266,884,566	28,867,078	380,200,428	113,315,862
1951-52	8,547	144,370	75,038,793	290,682,891	32,027,622	431,038,354	140,355,463
1952-53	8,512	143,180	78,490,492	318,945,336	35,359,704	464,064,555	145,119,219

² Productive employees.

³ Not available.

⁴ Estimated on basis of sample survey.

REVENUE AND EXPENDITURE OF GENERAL GOVERNMENT

Year Ended 31 March	Consolidated Fund ²									
	From Taxation		Receipts From Other Sources		Totals		Payments		Balances	
	£	£	£	£	£	£	£	£	Deficit	Surplus
1903	3,277,964		3,169,471		6,447,435		6,214,019			233,416
1904	3,649,601		3,480,516		7,130,117		6,434,281			695,836
1905	3,754,379		3,592,818		7,347,197		6,635,902			711,295
1906	3,841,596		3,808,502		7,650,098		7,122,340			527,758
1907	4,264,555		4,214,402		8,478,957		7,774,926			704,031
1908	4,645,754		4,418,235		9,063,989		8,213,965			850,024
1909	4,377,761		4,624,224		9,001,985		8,785,513			216,472
1910	4,180,516		5,058,401		9,238,917		8,990,922			247,995
1911	4,837,322		5,459,951		10,297,273		9,343,106			954,167
1912	5,296,590		5,764,571		11,061,161		10,340,368			720,793
1913	5,606,829		6,127,442		11,734,271		11,082,038			652,233
1914	5,918,034		6,311,627		12,229,661		11,825,864			403,797
1915	5,881,905		6,570,040		12,451,945		12,379,803			72,142
1916	7,266,966		7,243,171		14,510,137		12,493,107			2,017,030
1917	10,549,654		7,817,893		18,367,547		14,058,770			4,308,777
1918	12,340,853		7,865,369		20,206,222		15,120,288			5,085,934
1919	13,801,643		8,550,729		22,352,372		18,673,599			3,678,773
1920	16,256,527		9,824,813		26,081,340		23,781,924			2,299,416
1921	22,184,415		12,076,547		34,260,962		28,128,730			6,132,232
1922	16,370,516		11,756,491		28,127,007		28,466,838		339,831	
1923	15,594,288		11,985,155		27,579,443		26,263,760			1,315,683
1924	16,416,871		11,543,500		27,960,371		26,148,005			1,812,366
1925	16,554,664		12,088,336		28,643,000		27,399,200			1,243,800
1926	16,978,496		7,747,266		24,725,762		23,570,083			1,155,679
1927	16,899,556		8,043,551		24,943,107		24,355,965			587,142
1928	16,848,754		8,275,236		25,123,990		24,944,905			179,075
1929	17,835,122		5,764,554		23,599,676		24,176,928		577,252	
1930	19,474,091		5,875,770		25,349,861		25,200,882			148,979
1931	18,597,456		4,471,475		23,068,931		24,708,042		1,639,111	
1932	16,188,171		6,531,562		22,719,733		24,860,552		2,140,819	
1933	15,604,041		6,964,480		22,568,521		22,528,379			40,142
1934	17,059,829		6,432,920		23,492,749		24,202,027		709,278	
1935	20,177,607		5,948,487		26,126,094		24,499,595			1,626,499
1936	21,556,415		4,615,953		26,172,368		25,890,540			281,800
1937	26,940,845		4,206,342		31,147,187		30,675,158			472,029
1938	31,664,430		13,145,176		44,809,606		43,998,784			810,822

NOTE.—Reference to Section 30A will indicate that the figures shown in the above table are by no means on a comparable basis over the period. The figures from 1937-38 onwards have been adjusted to bring them into line with present practice.

² See p. 698 for coverage of Consolidated Fund.

³ Excludes £20,000,000 loan portions of payment to Reserve Bank for liability due to alteration in the exchange rate as from 20 August 1948.

Year Ended 31 March	Consolidated Fund ²									
	From Taxation		Receipts From Other Sources		Totals		Payments		Balances	
	£	£	£	£	£	£	£	£	Deficit	Surplus
1939	32,305,772		11,392,863		43,698,635		42,889,267			809,368
1940	32,810,599		14,108,892		46,919,491		46,600,152			319,339
1941	34,873,732		16,106,845		50,980,577		49,254,153			1,726,424
1942	35,161,946		19,390,755		54,552,701		52,880,239			1,672,462
1943	36,195,865		18,880,095		55,075,960		50,921,382			4,154,578
1944	42,017,619		15,543,790		57,561,409		55,328,820			2,232,589
1945	45,689,396		14,239,476		59,928,872		58,714,153			1,214,719
1946	48,370,718		15,542,931		63,913,649		62,659,499			1,254,150
1947	90,715,393		17,579,800		108,294,473		103,683,455			4,611,018
1948	96,099,153		21,016,962		117,116,115		115,330,403			1,785,712
1949	101,061,739		20,462,176		121,523,915 ¹		118,893,154 ¹			2,630,761
1950	103,853,465		21,143,169		124,996,634		120,688,892			4,307,742
1951	122,180,538		21,576,277		143,756,815		135,503,598			8,253,217
1952	156,936,939		23,851,463		180,788,402		168,152,681			12,635,721
1953	154,262,345		23,559,753		177,822,098		174,515,055			3,307,043

NOTE.—Reference to Section 30A will indicate that the figures shown in the above table are by no means on a comparable basis over the period. The figures from 1937-38 onwards have been adjusted to bring them into line with present practice.

² See p. 698 for coverage of Consolidated Fund.

³ Excludes £20,000,000 loan portions of payment to Reserve Bank for liability due to alteration in the exchange rate as from 20 August 1948.

INDEBTEDNESS OF GENERAL GOVERNMENT—AMOUNT OF DEBENTURES AND STOCK IN CIRCULATION (Nominal Amounts)

As at 31 March	Domiciled in				Total	Per Head of Population					
	London		Australia			New Zealand		Total			
	£	£	£	£		£	£	s.	d.		
1903	47,892,366		568,100		7,438,553		55,899,019		65	0	0
1904	48,048,842		793,900		8,679,473		57,522,215		65	4	3
1905	49,379,619		1,209,550		9,522,831		59,912,000		65	19	7
1906	50,910,992		2,586,450		8,693,598		62,191,040		66	13	0
1907	51,587,793		3,087,850		9,803,397		64,179,040		66	14	10
1908	51,158,670		3,554,700		11,740,527		66,453,897		67	8	11
1909	54,631,098		3,869,800		12,437,636		70,938,534		69	16	4
1910	57,733,658		4,113,985		13,043,002		74,890,645		72	6	10
1911	62,221,818		4,213,985		14,642,319		81,078,122		76	15	3
1912	64,004,874		4,213,985		16,135,054		84,353,913		78	0	3
1913	68,929,464		4,213,985		16,917,314		90,660,763		81	0	5
1914	78,624,309		4,286,800		16,819,318		99,730,427		87	10	2
1915	76,410,001		3,979,000		19,670,909		100,059,910		86	19	7
1916	81,464,748		3,520,650		24,651,999		109,637,397		95	6	4
1917	83,877,818		3,385,650		42,572,637		129,836,105		112	16	2
1918	88,707,818		3,385,650		58,746,587		150,840,055		130	12	11
1919	95,708,328		3,385,650		76,982,282		176,076,260		149	8	5
1920	95,708,329		3,385,650		102,076,776		201,170,755		162	12	9
1921	99,691,515		1,655,450		104,977,354		206,324,319		162	15	7
1922	105,919,159		2,287,440		110,847,786		219,054,385		168	6	10
1923	110,668,268										

LOCAL AUTHORITIES*

Year Ended 31 March	Receipts				Payments	Total Gross Indebtedness [†]
	Revenue		Other Receipts	Totals		
	From Rates	From Other Sources				
£	£	£	£	£	£	
1902	800.471	1,019,024	775.432	2,594.927	2,528,092	9,245.364
1903	846.716	1,053,582	966,087	2,866.385	2,867.506	9,886.676
1904	950.150	1,206,069	1,142,595	3,298.814	3,230.712	10,756,602
1905	1,019,451	1,255,222	1,350,631	3,625.284	3,497.321	12,056,736
1906	1,151,219	1,392,148	1,326,597	3,869.964	3,601.506	12,873,165
1907	1,233,049	1,579,391	1,227,473	4,039.913	3,897.515	13,903,153
1908	1,356,257	1,750,665	1,410,994	4,517.916	4,491,113	14,931,351
1909	1,396,698	1,934,124	1,440,746	4,765.266	4,800,711	15,920,757
1910	1,526,317	1,934,034	2,362,171	5,823.532	4,899,482	17,809,917
1911	1,592,601	2,171,725	1,776,958	5,541.284	5,340,261	19,104,571
1912	1,677,877	2,208,934	2,425,258	6,402,609	6,074,372	20,763,486
1913	1,799,299	2,531,686	2,381,123	6,714.108	6,537,769	22,183,427
1914	2,005,638	2,719,112	2,411,575	7,136.325	6,796,314	23,773,429
1915	2,140,086	2,861,297	2,595,706	7,597,089	6,806,567	24,538,721
1916	2,355,155	2,967,645	2,469,275	7,792,075	6,920,736	26,045,312
1917	2,534,539	3,243,942	1,411,422	7,189,903	6,758,593	26,799,586
1918	2,674,541	3,283,749	1,250,447	7,208,337	7,103,073	27,653,681
1919	2,939,606	3,452,071	942,780	7,334,457	7,320,277	28,074,950
1920	3,144,213	4,486,582	3,329,003	10,959,798	10,883,586	30,187,942
1921	3,549,590	5,336,374	3,429,662	12,315,626	12,761,690	32,104,957
1922	3,779,895	6,074,282	5,486,912	15,341,589	15,091,875	36,745,089
1923	4,277,781	6,243,951	7,399,674	17,921,406	16,695,507	43,191,184
1924	4,445,627	6,704,144	5,685,107	16,834,878	16,520,950	46,537,833
1925	4,668,884	7,512,080	7,613,399	19,794,363	19,422,833	53,535,466
1926	5,039,645	8,333,921	7,505,702	20,879,268	20,915,645	59,419,754
1927	5,311,260	8,954,685	6,680,176	20,946,121	21,747,557	64,012,247
1928	5,615,672	9,786,271	5,667,651	21,069,594	22,423,167	66,404,172
1929	5,844,495	9,583,576	6,042,007	21,470,078	21,300,024	69,294,619
1930	6,010,987	10,746,731	5,495,427	22,253,145	22,061,088	71,207,539
1931	5,637,254	10,627,391	4,432,956	20,697,601	22,174,524	72,686,036
1932	5,511,818	9,682,251	4,374,251	19,568,320	20,087,381	72,402,282
1933	5,237,688	8,913,285	4,433,294	18,584,267	18,885,173	72,476,056
1934	5,541,255	8,688,412	3,821,779	18,051,446	17,737,792	71,969,387
1935	5,511,442	9,167,287	3,943,488	18,622,217	18,744,891	71,245,458
1936	5,585,855	9,552,548	4,348,534	19,486,937	19,337,242	70,400,176
1937	5,994,353	9,979,437	4,252,803	20,226,593	20,222,715	68,559,750
1938	6,541,354	11,005,293	4,389,620	21,936,267	22,051,147	68,006,951
1939	6,971,550	11,750,626	6,254,792	24,976,968	25,078,935	68,206,674
1940	7,289,240	12,669,528	6,772,327	26,731,095	25,709,195	69,486,970
1941	7,344,055	13,144,216	4,651,633	25,139,904	24,726,628	67,974,687
1942	7,441,704	13,399,365	3,175,467	24,016,536	24,072,092	66,645,990
1943	7,764,677	14,082,822	2,640,252	24,487,751	23,228,434	65,131,074
1944	7,823,740	15,144,344	2,053,639	25,022,103	23,801,197	63,262,838
1945	7,895,871	15,472,527	2,086,275	25,454,673	25,223,643	61,237,917
1946	8,633,329	15,843,801	2,743,837	27,220,967	27,354,633	60,035,864
1947	9,541,133	17,018,847	3,737,371	30,297,351	30,479,174	57,768,259
1948	9,806,859	17,824,064	4,408,014	32,038,937	32,457,326	57,117,475
1949	10,797,084	19,756,796	5,458,322	36,012,112	35,813,273	56,605,024
1950	11,644,748	21,079,181	7,266,693	40,090,622	39,664,254	56,302,066
1951	12,577,017	22,626,015	7,461,071	42,664,103	43,242,427	56,086,596
1952	14,513,766	25,154,893	9,543,035	49,211,694	48,846,246	57,869,169

* Debt shown at its nominal amount, that portion domiciled overseas not being converted to its New Zealand currency equivalent. In terms of New Zealand currency gross debt at 31 March 1952 amounted to £ (N.Z.)57,991,081.

* Exclusive of Hospital Boards.

LOCAL AUTHORITIES* -- LOAN INDEBTEDNESS[†] (Exclusive of Inscribed Debt)

As at 31 March	Counties		Boroughs	Harbour Boards		Electric Power Districts		Other	Totals
	£	£		£	£	£	£		
	£	£		£	£	£	£		
1902	6,714	3,435,884		4,123,631			273,466	7,839,695	
1903	6,614	3,655,436		4,256,481			298,665	8,217,196	
1904	6,214	4,226,800		4,308,851			357,045	8,898,910	
1905	7,800	4,863,996		4,382,551			763,965	10,018,242	
1906	15,228	5,314,173		4,554,151			834,499	10,718,051	
1907	31,678	5,920,305		4,676,551			987,514	11,616,048	
1908	37,138	6,540,071		4,877,676			1,077,449	12,532,334	
1909	56,534	7,016,926		5,052,845			1,177,317	13,303,622	
1910	76,877	7,687,209		5,788,400			1,385,199	14,937,685	
1911	185,631	8,399,327		6,002,400			1,544,418	16,131,776	
1912	404,078	9,148,771		6,271,717			1,952,922	17,777,488	
1913	605,353	9,981,974		6,431,827			2,175,975	19,195,129	
1914	800,515	11,061,343		6,696,029			2,373,392	20,931,279	
1915	1,025,601	11,352,802		6,990,573			2,389,253	21,758,229	
1916	1,162,170	12,364,056		7,135,895			2,655,017	23,317,138	

* Exclusive of Hospital Boards.

† Debt shown at its nominal amount, that portion domiciled overseas not being converted to its New Zealand currency equivalent.

As at 31 March	Counties	Boroughs	Harbour Boards	Electric Power Districts	Other	Totals	
£	£	£	£	£	£	£	
1917	1,260,307	12,918,990		7,271,594		2,658,283	24,109,174
1918	1,476,412	13,461,919		7,387,125		2,697,981	25,023,437
1919	1,653,619	13,679,658		7,417,488		2,769,784	25,520,549
1920	2,032,960	15,295,958		7,495,641		2,892,192	27,716,751
1921	2,525,845	16,041,368		7,650,479	147,750	3,313,892	29,679,334
1922	3,006,582	18,060,322		8,250,272	1,480,000	3,513,209	34,363,299
1923	3,803,334	21,596,465		8,588,978	3,052,300	3,808,440	40,849,517
1924	3,997,009	22,075,003		9,173,484	4,740,865	4,237,168	44,223,529
1925	4,616,688	22,852,865		9,750,660	6,514,757	4,315,898	51,080,868
1926	5,390,003	28,025,700		9,993,259	8,745,755	5,025,420	57,180,137
1927	5,992,375	30,044,394		10,257,781	10,113,400	5,414,670	61,822,620
1928	6,205,468	31,599,234		10,476,883	10,175,364	5,817,390	64,274,429
1929	6,350,942	32,244,481		10,774,139	11,986,707	5,860,262	67,216,531
1930	6,533,322	31,521,149		10,460,692	12,636,351	6,028,555	69,180,069
1931	6,641,057	32,139,389		10,509,207	13,011,529	6,415,827	70,717,009
1932	6,685,905	31,683,238		10,549,493	13,121,960	6,437,121	70,477,717
1933	6,614,056	31,791,675		10,620,442	13,031,930	6,550,251	70,608,354
1934	6,557,849	31,358,647		10,496,533	13,213,079	6,522,069	70,148,177
1935	6,402,889	30,992,129		10,524,788	13,399,053	6,580,400	69,504,659
1936	6,228,614	30,773,342		10,218,672	13,484,988	6,840,465	68,746,079
1937	6,124,766	30,505,612		10,152,128	12,026,687	6,841,185	66,950,378
1938	6,082,794	30,542,431		9,894,115	11,890,031	6,877,642	66,487,013
1939	6,106,544	30,600,654		9,746,940	12,471,315	7,752,762	66,678,215
1940	6,184,127	30,768,993		9,960,639	13,114,688	7,977,872	68,006,319
1941	6,154,293	30,024,475		9,927,578	13,106,774	7,331,187	66,544,307
1942	6,101,059	29,647,155		9,796,647	12,499,046	7,288,978	65,322,785
1943	5,873,338	28,852,648		9,790,659	12,376,558	7,076,093	63,969,096
1944	5,632,334	28,212,149		9,700,962	11,828,508	6,933,580	62,307,743
1945	5,386,091	27,567,455		9,496,763	11,535,522	6,428,807	60,414,638
1946	5,195,746	27,230,773		9,365,149	11,190,586	6,340,078	59,342,332
1947	4,957,171	26,713,154		8,406,378	10,841,813	6,253,316	57,171,832
1948	4,762,965	26,479,006		8,234,163	11,093,722	6,042,989	56,612,845
1949	4,630,636	25,924,925		8,046,461	11,579,513	5,999,981	56,181,516
1950	4,466,331	26,075,234		7,785,298	11,996,832	5,719,067	56,042,762
1951	4,316,314	26,236,087		7,381,722	12,461,512	5,602,453	55,998,088
1952	4,276,331	27,158,488		7,496,231	13,003,504	5,918,664	57,853,218

* Exclusive of Hospital Boards.

† Debt shown at its nominal amount, that portion domiciled overseas not being converted to its New Zealand currency equivalent.

TRADING BANKS ASSETS AND LIABILITIES: NET NOTE CIRCULATION (Average of Four Quarters up to 1929, thereafter Weekly Averages)

Year	Trading Bank Assets			Trading Bank Liabilities			Notes in Circulation*
	Advances	Coin and Bullion [†]	Totals (All Assets) [‡]	Deposits	Totals (All Liabilities) [‡]		
	£	£	£	£	£		
1903	13,435,993	3,608,941	19,913,546	19,011,114	20,563,879	1,450,267	
1904	14,651,198	3,896,195	20,893,096	19,074,960	20,643,359	1,468,161	
1905	15,496,395	4,006,108	21,770,525	20,545,601	22,144,166	1,468,977	
1906	16,649,329	4,593,954	23,829,933	22,422,243	24,143,008	1,574,254	
1907	18,514,045	4,836,718	26,584,239	23,517,111	25,334,348	1,644,645	
1908	21,172,808	4,840,942	29,098,567	21,821,753	23,611,903	1,615,109	
1909	19,078,032	4,947,096	26,937,265	21,996,621	23,728,326	1,577,558	
1910	18,439,999						

Year	Trading Bank Assets			Trading Bank Liabilities			Notes in Circulation *
	Advances	Coin and Bullion [†]	Totals (All Assets) [†]	Deposits	Totals (All Liabilities) [†]		
1937	49,199,592	742,500	85,822,902	66,842,692	67,842,240		8,921,024
1938	55,650,064	875,825	85,072,229	65,038,690	66,820,736		9,989,336
1939	54,745,801	746,801	96,108,637	67,279,451	75,978,460		12,013,852
1940	47,954,499	717,662	101,496,183	77,364,340	82,032,696		14,790,714
1941	49,746,397	761,914	105,291,604	80,730,101	84,073,585		17,434,751
1942	45,439,520	686,902	118,948,669	90,880,339	100,768,355		21,496,700
1943	43,249,581	643,614	132,698,632	106,333,897	114,628,316		27,636,150
1944	46,773,498	713,076	140,938,803	117,568,290	122,214,224		32,101,972
1945	51,766,198	683,795	164,498,691	130,137,939	142,594,988		34,983,041
1946	58,270,843	727,125	179,027,829	149,777,364	160,503,841		38,198,343
1947	76,475,734	906,335	191,991,738	164,169,520	177,593,488		40,127,082
1948	88,159,764	1,393,196	193,458,134	175,660,670	190,538,286		40,796,344
1949	83,357,042	1,501,540	208,278,008	186,092,099	208,920,069		42,535,030
1950	94,715,117	1,687,717	225,348,566	202,200,423	233,969,022		45,227,947
1951	132,916,945	1,531,922	270,300,864	250,722,652	275,255,999		48,970,195
1952	169,841,486	1,471,298	268,151,473	252,967,759	255,082,763		50,978,408
1953	136,827,108	1,540,103	291,294,841	265,209,411	281,557,375		53,387,145

* Gold coin and bullion, and note-issue functions, taken over by Reserve Bank (August 1934). The Reserve Bank assumed liability for the outstanding notes of the trading banks as from 1 August 1936.

† As at last balance day in December from 1934 onwards.

POST OFFICE SAVINGS BANK

Year	Number of Depositors at End of Year	Total Amount of Deposits During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited to Depositors	Total Amount to Credit of Depositors at End of Year
1902	227,465	5,069,619	4,708,772	360,847	172,926	6,883,787
1903	243,675	5,661,593	5,343,828	317,765	187,130	7,388,682
1904	259,164	5,836,540	5,664,770	7,761,382	200,930	7,761,382
1905	276,066	6,625,744	5,984,185	641,559	259,081	8,662,023
1906	298,746	7,907,155	6,907,104	1,000,051	291,192	9,953,266
1907	319,773	9,351,664	8,125,123	1,226,541	343,424	11,523,231
1908	342,077	9,674,075	9,417,820	256,255	379,808	12,159,294
1909	359,714	9,611,120	9,499,320	111,800	395,804	12,666,898
1910	380,585	10,708,939	9,695,515	1,013,424	424,668	14,104,990
1911	405,566	11,627,368	10,662,046	965,322	472,875	15,543,187
1912	432,199	11,725,183	11,449,711	275,472	511,599	16,330,257
1913	458,594	11,286,702	11,041,454	245,248	555,908	17,131,414
1914	483,262	11,904,323	10,603,018	1,301,305	615,310	19,048,029
1915	509,085	13,706,057	11,294,973	2,411,084	707,252	22,166,365
1916	538,072	15,576,408	12,957,420	2,618,988	817,856	25,603,209
1917	566,351	17,106,529	14,461,169	2,645,360	947,821	29,196,390
1918	590,205	18,101,105	14,938,842	3,162,263	1,059,472	33,418,125
1919	630,783	20,758,447	25,962,377	3,796,070	1,178,935	38,393,130
1920-21*	664,819	44,302,852	41,162,486	3,140,366	1,818,535	43,352,031
1921-22	678,930	29,125,997	30,236,231	-1,110,234†	1,599,907	43,841,704
1922-23	690,790	26,682,427	27,769,263	-1,086,836†	1,605,525	44,360,393
1923-24	710,157	29,598,372	29,510,321	88,051	1,649,976	46,098,421
1924-25	735,148	29,582,897	30,413,609	- 830,712†	1,680,920	46,948,628
1925-26	758,155	31,833,622	32,602,506	- 768,884†	1,731,578	47,911,322
1926-27	783,827	29,456,383	30,149,629	- 693,246†	1,767,426	48,985,502
1927-28	804,725	27,611,066	30,584,998	-2,973,932†	1,747,156	47,758,726
1928-29	828,296	27,252,381	28,111,940	- 859,559†	1,745,050	48,644,217
1929-30	852,757	28,561,854	29,575,994	-1,014,140†	1,806,414	49,436,491
1930-31	878,043	24,531,569	28,063,338	-3,531,769†	1,763,825	47,668,547
1931-32	877,090	19,463,985	25,488,081	-6,024,096†	1,611,048	43,255,499
1932-33	797,097	16,933,176	19,635,928	-2,702,752†	1,475,874	42,028,621
1933-34	798,262	19,428,853	17,818,172	1,610,681	1,231,089	44,870,391
1934-35	817,617	24,179,537	20,946,562	3,232,975	1,320,348	49,423,714
1935-36	840,671	25,619,775	23,533,596	2,086,179	1,406,459	52,916,352
1936-37	880,857	30,676,969	27,042,003	3,634,966	1,514,220	58,065,538
1937-38	920,805	33,041,082	29,629,074	3,412,008	1,669,384	63,146,930
1938-39	946,822	30,434,291	34,597,708	-4,163,417†	1,726,574	60,710,087
1939-40	960,565	25,151,287	29,462,838	-4,311,551†	1,603,467	58,002,003
1940-41	992,792	28,607,221	25,319,146	3,288,075	1,666,710	62,956,788
1941-42	1,039,783	32,044,734	25,376,745	6,667,989	1,820,605	71,445,382
1942-43	1,086,996	38,097,070	26,889,339	11,207,731	1,816,820	84,469,933
1943-44	1,128,936	47,648,754	35,580,165	12,068,589	2,075,676	98,614,198
1944-45	1,161,886	54,585,120	42,158,656	12,426,464	2,451,628	113,492,290
1945-46	1,203,181	67,861,042	55,626,419	12,234,623	2,787,413	128,514,326
1946-47	1,239,948	72,380,543	62,747,093	9,633,450	3,094,491	141,242,267
1947-48	1,277,265	72,553,414	68,660,458	3,892,956	3,307,081	148,442,304
1948-49	1,311,292	70,690,640	67,722,724	2,967,916	3,438,790	154,849,010‡

* Fifteen months, 1 January 1920 to 31 March 1921.

† Excess of withdrawals over deposits

‡ Does not include £11,447,754 from war gratuity accounts transferred to Post Office Savings-bank as from 31 March 1949 and transactions in respect of which are shown in next line in italics.

Year	Number of Depositors at End of Year	Total Amount of Deposits During Year	Total Amount of Withdrawals During Year	Excess of Deposits Over Withdrawals	Interest Credited to Depositors	Total Amount to Credit of Depositors at End of Year
1949-1950		11,447,754	3,792,846	7,654,908		170,982,452
1950-51	1,372,672	77,963,430	73,306,181	4,657,249	3,821,285	176,102,782
1951-52	1,407,241	86,395,331	85,190,007	1,205,324	3,915,006	184,639,213
1952-53	1,450,309	98,205,643	93,748,818	4,456,825	4,079,606	191,273,736
1953-54	1,485,852	99,125,775	96,699,559	2,426,215	4,208,308	

* Fifteen months, 1 January 1920 to 31 March 1921.

† Excess of withdrawals over deposits

‡ Does not include £11,447,754 from war gratuity accounts transferred to Post Office Savings-bank as from 31 March 1949 and transactions in respect of which are shown in next line in italics.

POSTAL

Year	Letters, Cards, etc., Posted and Delivered	Total Mail Matter (including Parcels) Posted and Delivered	Money-orders Issued		Postal Notes Issued*		Postal Revenue*
			Number	Amount	Number	Amount	
			£	£	£	£	
1902	57,714,631†	96,452,068†	367,207	1,277,059	616,264	187,709	302,604
1903	61,687,457†	102,732,717†	396,312	1,416,225	707,044	215,275	343,207
1904	66,501,434†	110,778,154†	407,783	1,476,887	785,347	244,719	383,243
1905	71,116,261†	122,493,568†	417,441	1,541,712	875,324	270,300	410,967
1906	79,084,566†	132,936,185†	439,020	1,686,231	981,642	307,323	438,729
1907	159,680,654	255,279,486	441,487	1,773,591	1,092,631	340,436	478,388
1908	175,440,111	281,699,027	488,084	2,050,684	1,222,280	383,472	544,642
1909	186,926,337	295,886,182	538,740	2,307,593	1,414,752	441,099	566,990
1910	196,768,968	310,236,516	569,657	2,457,523	1,666,959	517,315	603,150
1911	205,450,627	323,663,638	607,764	2,759,393	1,821,566	566,650	613,252
1912	214,184,119	333,620,976	666,425	3,231,350	1,970,643	627,443	644,637
1913	223,961,201	338,400,371	690,745	3,357,774	2,238,842	711,518	695,136
1914	233,901,320	359,031,400	691,518	3,427,505	2,314,327	714,683	698,898
1915	242,547,859	356,519,892	664,860	3,471,818	2,370,079	712,753	858,583
1916	242,121,361	347,016,697	669,355	3,607,087	2,286,463	685,708	964,793
1917	245,796,945	344,962,697	642,683	3,476,645	2,166,597	628,920	976,027
1918	242,527,369	333,826,866	638,500	3,649,371	2,091,051	610,591	983,585
1919	247,143,183	340,448,228	690,291	4,604,059	2,197,520	646,411	1,068,489
1920	259,743,234	360,747,489	699,674	5,276,776	2,280,219	691,201	1,352,677
1921	253,767,131	359,096,963	669,383	4,850,820	2,377,622	723,254	1,499,304
1922	239,997,081	356,188,284	659,943	4,278,529	2,434,506	730,232	1,378,421
1923	252,021,959	383,196,307	684,979	4,390,159	2,652,777	786,146	1,146,588
1924	272,311,925	426,907,636	731,511	4,692,929	2,846,333	840,559	1,257,942
1925	294,630,760	471,503,757	766,689	4,977,230	3,040,722	902,139	1,207,277
1926	298,617,089	486,381,016	793,110	5,033,127	3,329,638	965,270	1,400,886
1927	297,478,294	496,553,440	803,535	4,995,090	3,614,217	1,015,213	1,439,587
1928	298,548,364	517,749,720	807,885	4,977,522	3,575,984	1,057,624	1,426,936
1929	309,162,103	532,070,649	835,358	5,187,553	3,816,635	1,123,446	1,498,684
1930	313,148,058	542,003,413	833,505	5,069,629	3,907,288	1,128,807	1,582,550
1931	365,484,009	714,478,393	3,901,035	2,884,654	952,444		1,734,553
1932	346,395,130	436,615,397	648,951	3,335,552	2,686,648	958,373	1,393,655
1933	361,979,312	461,132,572	635,674	3,112,729	2,883,070	1,061,946	1,294,757
1934	325,063,943	486,830,600	654,621	3,209,713	3,325,561	1,140,695	1,384,265
1935	328,645,484	526,126,679	673,057	3,374,029	3,827,417	1,293,955	1,466,857
1936	329,098,761	534,097,248	733,966	3,794,648	3,833,288	1,378,387	1,628,808
1937	307,170,027	547,687,799	784,495	4,312,629	3,746,500	1,454,29	

Year Ended 31 March	Miles Open for Traffic	Capital Cost of Open Lines	Train-mileage	Passengers Carried, Excluding Season-ticket Holders	Goods and Live-stock*	Revenue†		Expenditure‡	
						£	£	£	£
1903	2,291	19,081,735	5,443,333	7,575,390	3,918,261	1,974,038	1,343,415		
1904	2,328	20,692,911	5,885,399	8,306,383	4,259,217	2,180,641	1,438,724		
1905	2,374	21,701,572	6,107,079	8,514,112	4,185,467	2,209,231	1,492,900		
1906	2,407	22,498,972	6,413,573	8,826,382	4,415,166	2,349,704	1,621,239		
1907	2,458	23,504,272	6,755,454	9,600,786	4,834,563	2,624,600	1,812,482		
1908	2,474	24,365,647	7,051,274	9,756,716	5,070,176	2,761,938	1,949,759		
1909	2,674	27,762,592	7,458,236	10,457,144	5,135,408	2,929,526	2,114,815		
1910	2,717	28,513,476	7,889,166	11,141,142	5,490,018	3,249,790	2,169,474		
1911	2,753	29,606,546	8,141,075	11,200,613	5,863,674	3,494,182	2,303,272		
1912	2,798	30,506,089	8,371,687	11,891,134	5,887,908	3,676,509	2,465,896		
1913	2,851	31,611,220	9,016,224	13,123,879	6,246,128	3,971,002	2,705,609		
1914	2,854	32,355,087	9,319,268	13,355,893	6,019,633	4,043,328	2,880,323		
1915	2,945	34,133,825	9,383,420	13,565,772	6,453,472	4,105,457	2,920,455		
1916	2,960	34,857,882	9,356,522	14,201,506	6,370,945	4,548,356	2,910,883		
1917	2,960	35,378,664	9,146,331	14,173,115	6,239,173	4,800,810	2,926,864		
1918	2,983	36,001,432	7,468,646	11,408,156	5,742,968	4,687,700	3,042,907		
1919	2,983	36,167,681	7,477,583	11,374,521	5,611,738	4,988,632	3,308,575		
1920	2,996	36,390,115	7,408,608	12,760,814	6,000,279	5,752,487	4,105,067		
1921	3,009	37,235,254	9,303,392	15,315,640	6,487,279	6,908,531	5,636,601		
1922	3,021	39,309,097	8,717,265	14,262,440	6,321,351	6,643,591	6,237,727		
1923	3,028	40,275,161	8,346,731	14,256,610	6,618,588	6,727,802	5,502,497		
1924	3,053	41,399,427	9,024,503	13,817,378	6,918,349	6,984,211	5,403,766		
1925	3,085	44,570,746	9,083,623	12,397,079	7,025,316	7,112,524	5,545,416		
1926	3,138	47,608,676	10,319,407	11,787,723	7,245,692	7,589,274	6,164,570		
1927	3,164	49,183,916	10,723,864	10,274,878	7,199,752	7,423,472	6,158,283		
1928	3,180	51,187,376	10,838,594	9,272,547	7,358,388	7,343,845	6,302,119		
1929	3,287	56,568,598	11,113,482	9,046,981	7,613,445	7,524,864	6,374,579		
1930	3,287	57,787,671	12,022,043	8,466,779	7,788,973	7,473,993	6,848,026		
1931	3,322	60,545,154	11,281,898	7,265,912	6,957,709	6,781,388	6,406,143		
1932	3,315	51,424,884	10,168,720	6,803,566	5,824,811	5,788,965	5,301,653		
1933	3,315	51,480,049	9,828,853	6,570,570	6,490,686	5,339,075	4,833,754		
1934	3,320	53,909,347	10,163,474	7,511,346	5,642,199	5,628,835	4,877,146		
1935	3,320	54,089,190	10,626,400	7,809,035	6,023,960	5,908,064	5,138,588		
1936	3,320	54,253,059	11,050,376	7,963,824	6,188,805	6,243,519	5,523,191		
1937	3,320	54,696,437	11,808,083	8,284,956	6,813,240	6,903,604	6,338,385		
1938	3,323	56,065,187	12,777,852	8,069,018	7,516,049	7,591,825	7,291,785		
1939	3,319	58,676,608	13,072,615	7,813,436	7,539,012	8,005,059	7,663,632		
1940	3,390	63,059,188	13,366,798	8,283,067	7,673,950	8,761,637	7,943,120		
1941	3,390	64,762,794	13,559,646	9,440,087	8,426,182	9,694,190	8,406,790		
1942	3,390	64,904,020	13,978,961	11,105,627	8,473,765	10,383,880	8,902,592		
1943	3,460	68,685,063	15,139,882	17,171,214	8,887,089	12,415,080	10,019,659		
1944	3,504	70,999,125	15,328,987	18,317,323	9,026,626	13,464,979	11,365,917		
1945	3,504	71,553,574	12,802,536	13,629,523	8,954,239	12,448,307	11,696,895		
1946	3,528	74,466,731	13,454,508	13,553,083	9,210,466	13,104,587	12,549,724		
1947	3,528	75,544,243	13,169,233	10,222,325	9,329,333	12,823,784	13,644,779		
1948	3,526	77,089,031	13,712,103	8,111,417	9,524,043	13,964,280	15,090,091		
1949	3,526	78,796,320	13,895,488	7,708,049	9,666,130	15,338,882	16,788,256		
1950	3,526	81,551,763	14,420,852	7,881,255	9,948,261	16,062,066	17,360,913		
1951	3,531	84,992,093	14,153,211	7,574,275	9,615,857	18,500,344	18,725,416		
1952	3,539	88,026,723	12,371,043	5,641,970	9,828,771	20,097,242	21,515,300		
1953	3,535	93,329,718	13,409,380	5,779,389	10,025,939	22,588,758	22,755,397		

* Equivalent tonnage of live-stock.

† From 1925–26, figures relate to railway operation only.

‡ Capital cost written down by £10,400,000.

BANKRUPTCY

Year	Number of Bankruptcies	Debtors' Statements of Assets, Excluding Amounts Secured to Creditors		Amount Realized by Official Assignees		Amount of Debts Proved		Amount Paid in Dividends and Preferential Claims	
		£	£	£	£	£	£	£	£
1903	204		46,767		23,761		88,019		17,618
1904	257		86,094		43,514		125,392		28,103
1905	304		100,813		47,798		146,332		28,150
1906	347		106,376		50,761		192,927		35,448
1907	350		77,698		59,849		158,663		42,459
1908	406		200,447		67,018		199,069		47,800
1909	471		204,187		71,351		259,017		44,110
1910	393		127,634		79,100		176,001		47,796
1911	344		88,592		40,009		133,517		28,757
1912	312		64,398		39,965		120,325		26,825
1913	343		155,582		42,735		228,829		25,813
1914	391		174,410		64,153		199,251		33,910
1915	294		92,876		63,310		153,926		42,374
1916	304		123,441		56,416		172,774		29,223
1917	265		138,696		63,645		178,244		27,405
1918	164		50,356		67,729		88,607		33,176
1919	141		43,627		43,627		59,767		24,980
1920	145		44,026		47,897		77,752		45,227
1921	336		362,601		78,271		558,504		38,646

Year	Number of Bankruptcies	Debtors' Statements of Assets, Excluding Amounts Secured to Creditors		Amount Realized by Official Assignees		Amount of Debts Proved		Amount Paid in Dividends and Preferential Claims	
		£	£	£	£	£	£	£	£
1922	600		344,861		126,145		834,356		63,009
1923	674		368,673		124,641		668,925		65,667
1924	670		279,602		118,641		703,995		74,878
1925	653		235,377		98,648		471,028		80,187
1926	752		236,915		102,899		585,687		72,515
1927	867		331,363		108,850		679,473		72,388
1928	806		236,264		116,613		767,327		68,763
1929	687		233,655		91,180		502,112		54,759
1930	780		471,502		83,308		827,345		68,611
1931	848		401,649		108,809		1,042,187		63,185
1932	661		252,348		75,657		624,892		55,940
1933	450		114,817		61,723		489,895		47,884
1934	326		72,572		44,533		258,920		33,788
1935	257		68,216		41,057		225,508		23,142
1936	200		40,557		32,983		169,866		21,520
1937	222		59,100		55,970		171,706		26,700
1938	267		118,698		64,511		230,463		30,793
1939	267		82,318		44,171		225,490		29,950
1940	213		35,372		42,418		125,389		30,588
1941	165		24,538		35,453		71,011		34,428
1942	82		13,665		29,753		32,227		19,428
1943	45		6,148		18,883		20,952		13,136
1944	51		13,209		13,466		51,035		16,741
1945	45		9,060		18,530		118,216		10,041
1946	52		10,663		20,942		48,506		14,328
1947	74		21,433		15,528		44,731		12,386
1948	148		56,229		50,280		143,282		24,945
1949	179		53,035		38,410		203,173		20,114
1950	142		29,315		49,252		125,917		36,060
1951	145		115,760		48,269		136,822		38,044
1952	168		76,255		56,241		251,129		24,127
1953	215		140,255		72,162		381,016		43,468

Appendix A. APPENDICES

Table of Contents

- (a) PRINCIPAL EVENTS
- (b) LIST OF ARTICLES ON SPECIAL SUBJECTS APPEARING IN PREVIOUS ISSUES OF THE YEAR-BOOK
- (c) GENERAL BIBLIOGRAPHY
- BIBLIOGRAPHY AND LIBRARIES
- RELIGION AND MYTHOLOGY
- LAW
- PHILATELY
- LANGUAGE
- BOTANY
- ETHNOLOGY
- SCIENCE: GENERAL
- MEDICINE
- POETRY
- LITERATURE AND ART
- FICTION
- DESCRIPTION AND TRAVEL
- BIOGRAPHY: COLLECTIVE
- BIOGRAPHY: PERSONAL
- HISTORY: GENERAL
- HISTORY: SPECIAL
- HISTORY: WAR
- COOK AND OTHER ISLANDS
- SAMOA
- ROSS DEPENDENCY
- (d) ROYAL TOUR OF NEW ZEALAND, 23 DECEMBER 1953 TO 30 JANUARY 1954

(a) PRINCIPAL EVENTS

CHRONOLOGICAL LIST OF SOME NOTEWORTHY EVENTS IN THE HISTORY OF NEW ZEALAND

- 1642. Discovery of New Zealand by Tasman.
- 1765. Discovery of Pukapuka Island, in the Cook Islands Group.
- 1769. Captain Cook's first visit to New Zealand.

1773. Captain Cook discovered Island of Manuae, in the Cook Islands Group.

1788. Discovery of Macaulay and Curtis Islands (Kermadec Group), and of Bounty Islands.

1791. Discovery of Snares and Chatham Islands.

1792. First sealing gang left on New Zealand coast.

1793. Discovery of Raoul or Sunday Island (Kermadec Group). Visit of Lieutenant-Governor King, of Norfolk Island, to Doubtless Bay.

1800. Discovery of Antipodes Islands.

1806. Discovery of Auckland Islands.

1807. Defeat of Hongi and the Ngāpuhi Tribe.

1810. Discovery of Campbell Island.

1814. Arrival of Rev. Samuel Marsden, and introduction of Christianity. Horses, cattle, sheep, and poultry first brought to New Zealand.

1818. Hongi's and Te Morenga's great expedition to East Cape.

1819–20. Raid on Taranaki and Port Nicholson by Patuone, Nene, and Te Rauparaha.

1820. Hongi's visit to England. First vessel entered Auckland Harbour.

1821. Hongi's capture of Maunaiina Pa and Te Totara Pa. Ngāti-Toa migration from Kawhia to Otaki.

1822. Fall of Matakītiki Pa, Waikato, to Hongi.

1823. Fall of Mokoia Pa, Rotorua, to Hongi.

1823–28. Jurisdiction of Courts of Justice in New South Wales extended to British subjects in New Zealand.

1824. Fall of Te Whetumatarau Pa to Pomare.

1825. First attempt at colonization, by an expedition under Captain Herd. Great defeat of Ngāti-Whatau by Hongi.

1827. Hongi's forces destroyed mission station at Whangarua.

1828. Death of Hongi.

1829. Brig *Haves* captured by Maoris.

1830. Battles of Taumata-wiwi and Kororareka. Fall of Kaiapohia Pa, Canterbury, to Te Rauparaha.

1831. Tory Channel whaling station established. Application of thirteen chiefs for the protection of King William IV. Capture of Pukerangiora Pa, Waitara, by Waikato.

1832. Repulse of Waikato at Nga-motu Pa.

1833. Mr. James Busby appointed British Resident at Bay of Islands.

1834. Battle near Otaki. Waimate Pa shelled and captured by British—first occasion on which H.M. troops employed in New Zealand.

1835. Declaration of independence of the whole of New Zealand as one nation, with title of “United Tribes of New Zealand.” Ngāti-Awa tribes migrated to and conquered Chatham Islands.

1836. Battles between Waikato and Te Arawa.

1838. Pelorus Sound discovered. Arrival of Roman Catholic mission under Bishop Pompallier.

1839. Governor of New South Wales authorized to include within the limits of that colony any territory that might be acquired in sovereignty by Her Majesty in New Zealand. Preliminary expedition of New Zealand Company under Colonel Wakefield arrived at Port Nicholson.

1840. Arrival of New Zealand Company's settlers at Port Nicholson. Treaty of Waitangi signed. British sovereignty proclaimed. Captain Hobson appointed Lieutenant-Governor, with residence at Auckland. Settlements formed at Petre (Wanganui) and Akaroa.

1841. Issue of charter of incorporation of New Zealand Company. New Zealand proclaimed independent of New South Wales. Arrival of New Plymouth settlers.

1842. Settlement founded at Nelson.

1843. Affray with Maoris at the Wairau.

1844. Royal flagstaff at Kororareka cut down by Heke.

1845. Destruction of Kororareka by Heke.

1846. Arrival of first steam vessel (H.M.S. *Driver*) in New Zealand waters. Capture of pa at Ruapekapeka and termination of Heke's war. Maori hostilities near Wellington. Te Rauparaha captured and detained as a prisoner. New Zealand divided into two provinces, New Munster and New Ulster, and representative institutions conferred.

1847. Attack by Maoris on Wanganui.

1848. Suspension of that part of New Zealand Government Act which had conferred representative institutions. Severe earthquake at Wellington. Otago' founded.

1850. Surrender of New Zealand Company's charter, all its interests reverting to the Imperial Government. Canterbury founded.

1852. Discovery of gold at Coromandel. Constitution Act passed, granting representative institutions to New Zealand, and dividing country into six provinces.

1854. Opening at Auckland of first session of the General Assembly.

1855. First members elected to the House of Representatives under system of responsible Government. Very severe earthquake on both sides of Cook Strait.

1856. Appointment of first Ministry under system of responsible Government.

1857. Goldfield opened at Collingwood.

1858. New Provinces Act passed. Hawke's Bay Province constituted.

1859. Establishment of Marlborough Province.

1860. Hostilities in Waitara district.

1861. Truce arranged with Waitara Maoris. Bank of New Zealand incorporated. Southland Province established. Gold discovered at Gabriel's Gully, Otago.

1862. Coromandel proclaimed a goldfield. Wreck of s.s. *White Swan*, with loss of many public records. First electric telegraph line opened—Christchurch to Lyttelton.

1863. Wreck of H.M.S. *Oryzopsis* on Manikau bar, with loss of 181 lives. Control of Maori affairs transferred to Colonial Government. Commencement of Waikato War. Defeat of Maoris at Rangiri, and occupation of Ngāruawāhia. First railway in New Zealand, portion of Christchurch-Lyttelton line, opened.

1864. Severe fighting in Waikato and elsewhere, including Battles of Rangiaohia, Orakau, Gate Pa, and Te Ranga. First major discovery of gold on West Coast of South Island.

1865. Seat of Government transferred to Wellington. Further fighting, followed by proclamation of peace. Activities of Hauhau fanatics, including murders of Europeans. Rebel Maoris defeated at Wairoa.

1866. Further defeats of rebel Maoris. Commencement of Panama steam mail service. Cook Strait submarine telegraph cable laid.

1867. Opening of Thames Goldfield. Lyttelton Tunnel completed. Admission of four Maori members to House of Representatives as direct representatives of Maori people.

1868. Maori prisoners, under leadership of Te Kooti, seized schooner *Rifeman* and escaped from Chatham Islands to mainland, where they massacred Europeans. Considerable fighting with these and other rebel Maoris.

1869. Continuation of fighting with rebels and of pursuit of Te Kooti. Termination of Panama mail service. Visit of H.R.H. the Duke of Edinburgh. Government Life Insurance Office established.

1870. Further fighting with Te Kooti. Last of Imperial troops left New Zealand. Commencement of San Francisco mail service. Possession taken of Bounty Island. Inauguration of Vogel public-works policy. Act passed to establish the New Zealand University. Southland Province reunited with Otago.

1871. Commencement of railway construction under public-works policy.

1872. Resumption of friendly relations with Waitara Maoris. Appointment of Maori chiefs (two) to Legislative Council. Public Trust Office created.

1873. Establishment of New Zealand Shipping Company.

1874. In pursuance of immigration and public-works policy, 31,774 assisted immigrants arrived. Westland Province established.

1875. Resumption of amicable relations with Maori King. Establishment of Union Steam Ship Company. Abolition of Provinces Act passed.

1876. New Zealand connected by cable with Australia. Abolition of Provinces Act came into operation, provincial institutions being abolished and the country divided into counties and boroughs.

1877. Education Act passed, providing for free and compulsory education.

1878. Completion of the Christchurch-Invercargill railway.

1879. Trouble with Parihaka Maoris, under Te Whiti, and imprisonment of 180 of these. Triennial Parliaments Act passed. Adult male suffrage introduced. Kaitangata coal-mine explosion, whereby thirty-four lives lost.

1880. Release of Parihaka prisoners.

1881. Wreck of s.s. *Tarawa*, with loss of 130 lives. Severe earthquakes in Wellington. Arrest of Te Whiti and Tohu.

1882. First shipment of frozen meat from New Zealand.

1883. Amnesty to Maori political offenders proclaimed. Te Whiti and Tohu released. Direct steam communication inaugurated between New Zealand and England.

1885. New Zealand Industrial Exhibition at Wellington.

1886. Tarawera eruption, involving loss of 101 lives and destruction of Pink and White Terraces.

1887. Annexation of Kermadec Islands. Members of House of Representatives reduced to seventy-four, including four Maoris.

1888. British protectorate over Cook Islands proclaimed.

1889. South Seas Exhibition at Dunedin.

1890. Great maritime strike. First election of House of Representatives under one-man-one-vote principle.

1891. Inauguration of Liberal régime under Hon. John Ballance, succeeded on his death in 1893 by Mr. Seddon. This and following years marked by passage of industrial and social legislation.

1892. Introduction of lease-in-perpetuity system of land tenure.

1893. Franchise extended to women. Special licensing poll introduced.

1894. Industrial Conciliation and Arbitration Act passed. Government Advances to Settlers Act passed. Wreck of s.s. *Wairarapa*, with loss of 135 lives.

1895. Government assumed management of Midland Railway.

1896. Brunner Mine explosion, causing sixty-seven deaths. Abolition of non-residential or property qualification to vote. Government Valuation of Land Act passed.

1898. Old-age Pensions Act passed.

1899. Labour Day instituted. New Zealand Contingent (the first of ten) sent to South Africa.

1900. Number of European representatives in Lower House increased to seventy-six.

1901. T.R.H. the Duke and Duchess of York visited New Zealand. Penny postage adopted by New Zealand. Cook and other Pacific islands annexed.

1902. Pacific cable opened. Wreck of s.s. *Elingamite*, with loss of forty-three lives. Conference of colonial Premiers in London.

1903. Empire Day proclaimed. State Fire Insurance Act passed.

1905. Workers' Dwellings Act passed. Title of New Zealand's representative in London altered to “High Commissioner.”

1906. Death of Right Hon. R. J. Seddon, Premier since 1893. Advances to Workers Act passed. New Zealand International Exhibition at Christchurch.

1907. New Zealand constituted a Dominion. Lease-in-perpetuity system of land tenure abolished. Parliament Buildings destroyed by fire.

1908. Through railway communication established between Wellington and Auckland. Wellington Manawatu Railway purchased by Government. Second Ballot Act passed.

1909. S.s. *Penguin* wrecked in Cook Strait, with loss of seventy-five lives. Battle cruiser presented by New Zealand to Imperial Government. System of compulsory military training introduced.

1910. Field-Marshal Lord Kitchener reported and advised on New Zealand defences. Public

Debt Extinction Act and National Provident Fund Act passed.

1911. Wireless telegraphy installed in New Zealand. Widows' Pensions Act passed. First poll on national prohibition taken.

1912. Foundation stone of new Parliament Buildings laid. Public Service placed under Commissioner control.

1913. Visit of Dominions Royal Commission. Visit of gift ship H.M.S. *New Zealand* to Dominion. Extensive strikes. Second Ballot Act repealed. Industrial, Agricultural, and Mining Exhibition at Auckland.

1914. Western Samoa occupied by New Zealand Advance Expeditionary Force. Main Expeditionary Force left for Egypt. Huntly coal mine disaster, whereby forty-three lives lost.

1915. New Zealand Expeditionary Force engaged in operations on Gallipoli Peninsula. National Cabinet formed. National register of men compiled. Pensions for miners introduced.

1916. New Zealand Division transferred to Western Front, Mounted Brigade being retained in Egypt. Compulsory enrolment of men for war service introduced. Lake Coleridge electric supply scheme opened.

1918. S.s. *Wimmera* sunk by enemy mine off New Zealand coast, with loss of 26 lives. Oira Tunnel pierced. End of First World War. Great influenza epidemic, causing over five thousand deaths.

1919. Women made eligible for seats in Parliament. New Zealand represented at Peace Conference by Right Hon. W. F. Massey, Prime Minister.

1920. Visit of H.R.H. the Prince of Wales. Railway strike. First aeroplane flight over Cook Strait. League of Nations gave New Zealand mandate to administer Western Samoa. Anzac Day constituted.

1921. Samoa Act passed, making provision for government in terms of mandate. New Zealand represented at Disarmament Conference, Washington.

1922. Meat-export trade placed under control of a Board.

1923. Opening of Otira Tunnel. Ross Dependency proclaimed, and placed under jurisdiction of Governor-General. Dairy Produce Export Control Act passed.

1924. Railway strike. Direct two-way radio communication effected with England. Motor Vehicles Act provided for registration and annual licensing of motor vehicles. Land Transfer (Compulsory Registration of Titles) Act passed. Pensions for blind persons introduced.

1925. New Zealand and South Seas International Exhibition at Dunedin. Administration of Tokelau (Union) Islands transferred to New Zealand.

1926. Family Allowances Act passed.

1927. Visit of T.R.H. the Duke and Duchess of York. Summer Time Act passed. Petrol tax imposed.

1928. Kingsford Smith and party made first successful flight across Tasman Sea. Compulsory insurance of motor vehicles provided for by Motor Vehicles Insurance (Third-party Risks) Act.

1929. Severe earthquake in Murchison-Karamea district caused seventeen deaths. Daylight saving (half-hour) permanently adopted for summer months. Fatal clash between police and Maori at Apia, Western Samoa.

1930. Legislation providing for relief of unemployment first passed.

1931. Worst earthquake in history of New Zealand occurred in Hawke's Bay, resulting in the loss of 255 lives. General reduction of 10 per cent in wages and salaries. Parliament approved draft Statute of Westminster. Mortgagees' relief legislation passed.

1932. Industrial Conciliation and Arbitration Amendment Act made important changes in industrial legislation. National Expenditure Adjustment Act made reductions in old-age and other pensions, in salaries of State employees, and in rentals, interest rates, and other fixed charges. The historic Waitangi Estate presented to the nation by their Excellencies Lord and Lady Bledisloe. New Zealand represented at Ottawa Conference.

1933. Exchange raised in assistance of Government to £125 N.Z. for £100 London (telegraphic transfers). Sales tax of 5 per cent on wholesale sales instituted. Conversion of internal public debt with reduction in interest rates, and provision made for local authorities' interest reduction and loans conversion. Successful experimental shipments of chilled beef to England. Issue of New Zealand silver coinage.

1934. First official trans-Tasman air mail. Reserve Bank incorporated and commenced business. H.R.H. the Duke of Gloucester arrived on an official visit. First licensed air-transport service commenced operations.

1935. Bank notes of trading banks ceased to be legal tender. Rural Mortgagees Final Adjustment Act passed, and Court of Review established. National Government defeated at general election, and Labour Government assumed office for first of four successive terms.

1936. Inauguration of inter-island trunk air services. Reserve Bank nationalized. System of guaranteed prices for butter and cheese introduced. Forty-hour week became operative. Powers of Court of Arbitration restored. Rail-car fares inaugurated. New Zealand elected to seat on League of Nations Council.

1937. New Zealand represented at Imperial Conference by Right Hon. M. J. Savage, Hon. W. Nash, and Mr. W. J. Jordan. Death of Lord Rutherford of Nelson.

1938. Mr. W. J. Jordan, New Zealand's representative on League of Nations, elected President of the League Assembly. Social Security Act passed. Introduction of import selection and control.

1939. Declaration of war with Germany. Recruitment for 2nd New Zealand Expeditionary Force. Arrangements for purchase of primary products by Imperial Government. New Zealand Centennial Exhibition opened at Wellington. Issue of New Zealand bronze coinage. Naval engagement off River Plate, South America, in which H.M.S. *Achilles*, largely manned by New Zealand ratings, took part.

1940. Centennial celebrations. Departure of First Echelon of 2nd New Zealand Expeditionary Force. Death of the Prime Minister, the Right Hon. M. J. Savage; succeeded in office by Hon. P. Fraser. Declaration of war with Italy. R.M.S. *Niagara* sunk off New Zealand coast by enemy mine. Ballots for military service. National savings scheme inaugurated. Island of Nauru bombarded by enemy raid.

1941. Italian raiders sunk by H.M.N.Z.S. *Leander* in Indian Ocean. Daylight saving period extended to cover whole year. Minesweeper H.M.N.Z.S. *Puriri* sunk by mine in Haurangi Gulf, five fatalities. First enrolment of married men for military service. Death penalty abolished, also flogging and whipping. Declaration of war with Finland, Hungary, and Rumania. Declaration of war with Japan. Territorial Forces mobilized.

1942. Complete mobilization of Military Forces ordered. Introduction of control of industrial man-power. Compulsory enrolment of all male British subjects between ages of eighteen and sixty-five, inclusive, in Emergency Reserve Corps. Lend-lease reciprocal aid extended to include Australia and New Zealand. Gold to value of £2,397,000 salvaged from R.M.S. *Manurewa*. Rationing introduced, principal items being tea, sugar, clothing, footwear, and household linen. Severe earthquakes in Wairarapa and Wellington districts on 24 June and 2 August. Mobilization of women for essential work. Thirty-seven lives lost in fire at Seaciff Mental Hospital. Economic Stabilization Emergency Regulations issued.

1943. H.M.N.Z. *Corvette Moa* sunk by Japanese, with loss of five lives. Death of Right Hon. J. G. Coates, M.C., member of War Cabinet and former Prime Minister. North African campaign brought to a successful conclusion. Railway accident near Hyde—twenty-one persons killed and thirty-eight injured. 2nd N.Z.E.F. (3rd Division) took part in action against Japanese in the Pacific Area. Butter rationing introduced.

1944. Australian - New Zealand Agreement 1944, providing for collaboration on matters of mutual interest. Meat rationing introduced, also egg rationing introduced in certain areas. Annual Holidays Act passed. Third division, 2nd N.Z.E.F., returned to New Zealand from the Pacific Area. Invasion of France by Allied Forces commenced. Mutual-aid Agreement between Canadian and New Zealand Governments signed.

1945. Royal Commission commenced inquiries into licensing laws of New Zealand. War in Europe ended (8 May). War gratuities payments scheme announced. Man-power controls in regard to women and young persons relaxed. Wartime press censorship abolished. War Cabinet dissolved. War in Pacific ended. Japan formally surrenders (15 August). Electoral Amendment Act providing for abolition of the "country quota" passed. New Zealand National Airways Act providing for complete control of air transport as a national service passed. South Island Main Trunk Railway opened, through rail connection from Pictou to Bluff established.

1946. First women members of Legislative Council (two) appointed. Restrictions on consumption of electric power imposed in North Island. Remaining man-power controls covering freezing works, coal mining, sawmilling, and forest work lifted (June). Family benefit of 10s. per week made universal as from 1 April. Coupon rationing of motor spirits revoked. Lieutenant-General Sir Bernard Freyberg, V.C., assumed office as Governor-General (17 June). Railways Department inaugurated inter-island air freight service. Imports of phosphate from Nauru and Ocean Islands resumed. Contracts for bulk purchase of wool by United Kingdom Government expired, sales by auction resumed.

1947. New Zealand delegation attended conference at Canberra to establish a regional commission for South Pacific. £12,200,000 presented to United Kingdom Government by New Zealand. Rear-Admiral R. E. Byrd's Antarctic Expedition called at Wellington. New Zealand delegation attended International Conference on Trade and Employment at Geneva, and later at Havana. Local Government Commission appointed. First woman Cabinet Minister in New Zealand appointed. Marketing of dairy produce and fixation of guaranteed price taken over by Dairy Commission. Railway fares and freight charges increased, first rise since 1938. The Prime Minister attended a conference at Canberra of British Commonwealth Governments on Japanese peace treaty. Statute of Westminster adopted by New Zealand Parliament. Disastrous fire in Christchurch, 41 persons perished. Clothing rationing abolished.

1948. Railway accident near Blenheim, with loss of six lives. Compulsory motor-spirits rationing reintroduced 1 March. Withdrawal of New Zealand Army component of Jayforce during the period July to September. Mount Ngauruhoe erupts after twenty-two years' quiescence. Abolition of tea, sugar, and meat rationing during year. Australia - New Zealand Ministerial discussions on trade, defence, etc., held at Canberra. The longest regular air flight in the world maintained by the same aircraft and crew ended on 6 June, when the last flight of the R.N.Z.A.F. Japan - New Zealand air courier service was completed. Adjustment of exchange rate to parity with sterling as from 20 August. New radio frequencies operated in New Zealand from beginning of September. National Airways Corporation's *Kaka* crashed on Mount Ruapehu, with the loss of thirteen lives. Rediscovery of notomis near Lake Te Anau.

1949. The Government adopted new consumers' price index covering a greater range of retail prices. Seventh Pacific Sciences Congress held at Auckland and Christchurch. Pulls on the establishment of off-course betting and on an alteration in hotel hours held in March. Protracted carpenters' dispute at Auckland. Lodesstar airliner *Karoro* crashes near Waikanae, with loss of fifteen lives. Commencement of Rimutaka railway tunnel deviation. Referendum on question of compulsory military training held and answered in the affirmative. British Government devalued sterling by approximately 30 per cent from 1 September. New Zealand currency remained at parity with sterling—i.e., also being devalued in terms of United States dollars. Maori electors given the right to vote in general licensing polls. General election. Labour Government in office since 1935 defeated. The National Government (Prime Minister, Right Hon. S. G. Holland) assumed office on 13 December.

1950. Regular night crossings Sydney-Auckland by air inaugurated. The Minister of External Affairs attended Colombo Conference. British Empire Games held at Auckland. Control of land sales, except of farm land, lifted. Price control removed on many items at various times throughout the year. Control of sterling funds and securities relaxed. First group of eighteen-year-olds entered camp under compulsory military training scheme. New Zealand Legation at Moscow closed. Radio broadcasting hours reduced to conserve electricity. Seven and one-half per cent surcharge imposed on cargo freights from United Kingdom to Auckland. Increases in suburban rail fares, and in certain classes of goods and, later, in road service passenger fares. Abolition of 33½ per cent additional tax on unearned income. Abolition of petrol and butter rationing. Social security benefits raised and interim wages order issued by Court of Arbitration providing for wage increases. New general price order authorizing adjustments consequent on withdrawal of subsidies, and increases in freights and wages. Two New Zealand frigates departed for Korean waters. Increases in postal charges, telegram and telephone rates announced. Government offered special combat force to the United Nations for service in Korea. Commencement of 1950-51 wool sales resulted in record prices being paid. Legislative Council Abolition Act passed. Royal Commission appointed to inquire into waterfront industry. Off-course betting scheme approved. Capital punishment for murder restored. Flying boat service between Wellington and Sydney by Tasman Empire Airways Ltd. commenced in October. Seven deaths occurred as result of R.N.Z.A.F. plane crash into Samoan lagoon. Kayforce sailed from Wellington for Korea on 10 December. Death of Right Hon. Peter Fraser, Prime Minister 1940-49. Loss of twenty-two lives when launch *Rumi* wrecked off Mount Maungani.

1951. Increased freight charges on cargo from Australia to New Zealand announced. Yachting tragedy during Wellington-Lyttelton race, three yachts lost with loss of thirteen lives. General order issued by Court of Arbitration increasing rates of wages by 15 per cent as from 15 February. Government decided to hold prices of butter, milk, bread, and flour at existing levels by means of subsidies. Social security benefits and war pensions increased. Peak prices of New Zealand wool reached, touching 240d. per pound at Christchurch wool sale. Brooklyns-by-election held, Hon. A. H. Nordmeyer elected. Successive lists of items removed from import control during year. Prolonged waterfront strike resulted in Proclamation of State of Emergency, and issue of regulations under the Public Safety Conservation Act. Services kept essential cargoes moving. Waterfront unions deregistered, followed by deregistration of certain other unions—e.g., freezing workers, seamen and miners also involved. Establishment of Civil Emergency Reserve. Off-course betting operations commenced by Totalizator Agency Board. Freight rates raised during 7 May to 31 July by 50 per cent from United Kingdom and American Atlantic ports, this following on a 10-per-cent increase from 1 May. With the lifting of the surcharge of 50 per cent, an increase of 10 per cent operated after 1 October. Bonus of £5 in respect of each child under sixteen years of age paid by Government. The Prime Minister announced decision to seek early dissolution of Parliament, and to submit its administration of waterfront crisis to the judgment of electors. The shortest session of Parliament on record, 26 June to 14 July, concluded. The United States of America placed ban on dairy imports under the Defense Production Act (which gave power to exclude agricultural products if these had an adverse effect on the domestic market). Government reduced price of six basic items (bread, flour, butter, tea, gas, motor spirits) by either subsidy or reduction in Customs duty. The troopship *Wahine*, en route with 570 troops to Korea, struck Masella Island reef, and was abandoned with no casualties; troops subsequently flown to Japan. Wool prices fell severely from those rising before suspension of sales; a reduction of approximately 65 per cent on the highest prices attained earlier. National Government returned to power for second term. United States of America, Australia, and New Zealand sign Pacific Security Treaty. Parliament formally opened by Commission of three Supreme Court Judges prior to ceremonial opening by Governor-General. Royal Commission recommendations for substantial increases in salary and allowances of Ministers, Members of Parliament, etc., adopted. Taxation Committee report tabled in the House of Representatives.

1952. The Prime Minister attended a meeting of the Commonwealth Finance Ministers in London. Minimum floor-prices plan for wool operative from January sales. Millionth passenger carried by N.A.C. aircraft. Geothermal investigations at Wairakei carried out, steam bore blows at 1,500 ft. Royal Commission appointed to investigate the present situation of the railways, their future development, and sphere of operation. The nation received with sorrow an announcement of the death of His Majesty King George VI on 6 February at London. Proclamation of the accession of Queen Elizabeth II read by the Governor-General at Parliament Buildings on 11 February. Prime Minister announced several measures to aid in solving sterling crisis—e.g., importation of motor vehicles under licence, achieving overall balance in external payments for year ending June 1953 and a surplus with the non-sterling area. Australia made gift of four minesweepers to New Zealand. The Government authorized the registration of the Tasman Pulp and Paper Co. (in which the Government will participate), which is to develop the Murupara pulp and paper project. New Zealand team at Olympic Games at Helsinki most successful. Miss Y. Williams gaining a gold medal by winning the women's long jump and creating an Olympic record. Miss J. Stewart and Mr. J. M. Holland bronze medals by gaining third places in the women's 100 metres backstroke and 400 metres hurdles respectively. Higher prices to be received for sale of dairy produce and meat to United Kingdom for the ensuing season. Court of Arbitration issued standard wage pronouncements on income tax to 5 per cent and promised some relief in respect of death duties. The Minister of External Affairs attended first meeting of Pacific Council at Honolulu. The permissible rate of interest for local authority loans increased to 4 per cent. New Zealand fighter squadron left for garrison duties at Cyprus. The Government announced that full realizations from sale of butter and cheese in any season will be used for benefit of suppliers and dairy companies, and that those from export meat will be paid to producers. Report of Royal Commission on the Waterfront Industry tabled in the House of Representatives. Rail and air freight services to Nelson commenced in November. The price of motor spirit raised by 2d. per gallon. A New Zealand parliamentary party visited Korea. Arrival of Sir Willoughby Norrie on 2 December to assume the office of Governor-General. Increase in postal, telegraph, and telephone charges to take effect from 1 January 1953.

1953. Severe floods in Manawatu, Southern Hawke's Bay, and Wairarapa. Itinerary for Royal tour 1953-54 announced by the Prime Minister. Construction work on Murupara pulp and paper project commenced. New Zealand Government contributes £250,000 for relief of distress caused by disastrous floods in the United Kingdom and the Netherlands. Death of Queen Mary in March 1953. Bulk tariffs to electric supply authorities increased, with higher retail charges of between 20 and 40 per cent. Power restrictions suspended in North Island, first time for twelve years. Report of Roading Investigation Committee Released. Heron aircraft used in recommending Rongotai-Blenheim commercial air service (later extended to Nelson), the airport having been closed as a commercial airport since 1947. Termination of Wellington-Nelson passenger steamer service in April by withdrawal of steamer *Ngaio*. Commonwealth Prime Ministers attend conference in London at time of Coronation. Coronation Day for Her Majesty Queen Elizabeth the Second marked in New Zealand by nation-wide civic programmes. Announcement that Mt. Everest had been conquered on 29 May by British expedition led by Colonel J. Hunt, the summit being reached by the New Zealander Edmund Hillary and the Sherpa Tenzing—Kathmandu later bestowed by the Queen on the two British subjects mentioned. Tender accepted for construction of breakwater and reclamation at Lyall Bay for development of Rongotai as an international airport. More gold recovered from sunken Japanese by salvage ship *Forerunner*. 17. National Housing Conference held in Wellington in August. New Zealand achieves 1952 undertaking to reach a £25-million surplus with non-sterling area by June 1953. Armistice agreement signed in Korea. Budget contains tax concessions for family man, increasing personal and child exemptions, reducing surcharge to 2½ per cent, and affords some relief in death duties where quick successions occur. Arrival of new inter-island steamer *Maori* from England. Inauguration of Wellington - Hutt Valley electric train services, and discontinuance of corresponding road services. During the year the New Zealand Rugby Team left for its British Isles tour and the New Zealand Cricket Team for its tour of South Africa. The New Zealand National Band in Britain has double success at Edinburgh Festival and at the open championships brass band contest at Belle Vue, Manchester. National Roads Act passed, establishing National Roads Board to replace Main Highways Board, and setting up National Roads Fund for receipts from motor-taxation and Government contribution, and for payment of moneys for development of State and main highways, and subsidizing local authorities' roading programmes. Visit of Vice-President of United States of America. Commission of inquiry into certain matters relating to the Police Force appointed. The speed section of the London-Christchurch air race in October won by R.A.F. Canberra No. J in record time of 23 hours 51 minutes, and the transport handicap section by K.L.M. Royal Dutch Airlines Douglas Liftmaster, the first aircraft to finish in the latter section, however, being the B.E.A. Vickers Viscount in 40 hours 40 minutes. New Zealand elected to seat on the Security Council by the General Assembly of United Nations. Triennial local body elections held throughout New Zealand. Death of Chief Justice, the Right Hon. Sir Humphrey O'Leary. Court of Arbitration issues general order increasing wages by 10 per cent, with weekly maxima of 24s. men, 18s. women, and 14s. for those under 21 years. Price rises in many lines, including food items, notified, followed by increases in social security benefits and war pensions, public service salaries, guaranteed prices for butter, etc. The nation learned with sorrow of New Zealand's worst railway disaster at Tangiwai on Christmas Eve, when the engine and six carriages of the 3 p.m. Wellington-Auckland express plunged into a raging River of ice, water, silt, and debris with the accompanying collapse of a bridge over the Waangaia River. Known deaths totalled 130, with twenty-one still missing after the elapse of some weeks.

Arrival of Her Majesty Queen Elizabeth the Second and His Royal Highness, the Duke of Edinburgh, at Auckland on 23 December to commence the New Zealand portion of the 1953-54 Royal Tour. This was the first occasion on which a reigning monarch had visited these shores. Her Majesty made her second Christmas broadcast to the Commonwealth and Empire from Government House, Auckland, on the night of 25 December, and, on its conclusion, addressed a special message to her people in New Zealand, in which she expressed her sympathy and that of her husband with those who mourned on the occasion of the Tangiwai disaster. The first Proclamation issued by a reigning Sovereign in New Zealand was gazetted to summon Parliament for its opening by the Queen on 12 January. By the end of December the Royal party had visited Auckland, Northland, and the Waikato, receiving a tumultuous welcome *en route*.

(b) LIST OF ARTICLES ON SPECIAL SUBJECTS APPEARING IN PREVIOUS ISSUES OF THE YEAR-BOOK

Article on	Appeared for the Last or Only Time in the Year-Book of	
	Year	Page
Building stones	1892	194
Varieties of soil	1892	193
Patents, designs, and trade marks	1893	350
Acclimatization.	1894	430
Co-operative system of constructing public works	1894	234
Frozen-meat trade, the	1894	311
Labour in New Zealand	1894	362
Midland railway, the	1894	386
Railways in New Zealand: Their history and progress	1894	377
Sheep, crossbreeding of	1894	308
Sheep farming	1894	302
Southern Alps, the	1894	474
State farms	1894	243
West Coast Sounds, the	1894	482
Cheviot Estate, the	1895	264
Shipping companies—		
New Zealand Shipping Co.	1895	392
Shaw, Savill, and Albion Co.	1895	393
Union Steam Ship Co. of New Zealand	1895	389
Wellington-Manawatu railway, the	1895	381
Laws of England and New Zealand, difference between	1896	281
Walt Gold Mining Co.	1897	430
Wattle-growing in the Auckland Provincial District	1897	430
Mount Cook: Its glaciers, and the Hermitage	1898	552
Scenic wanderland, a	1898	365
Christchurch to West Coast, journey from	1899	548
Forest trees and the timber industry	1899	470
Gold dredging industry, the	1899	509
Moa, heir of the	1899	517
Mount Cook district, the	1899	554
Tokaanu to Raetihi	1899	539
Tuhoealand	1899	546
Waikato district and through to Wangamui	1899	520
Waioaru to Mangaonoho	1899	543
Chatham Islands, the	1900	531
Coal deposits of New Zealand, the	1900	479
Hemp industry, the	1900	477
Kauri gum	1900	489
Maori mythology	1900	536
Mount Cook, a night on	1900	525
Mount Sefton, ascent of	1900	519
New Zealand contingents for South Africa	1900	449
Pumice-stone deposits of New Zealand	1900	486
Wanganui River, up the, to Tokaanu	1900	509
Maori religion	1901	530
Marlborough Sounds, the	1901	517
Otago lakes, the	1901	523
Sydney pagant, the	1901	527
Cook Islands, the laws of	1902	573
Maori, neolithic, the	1902	578
Maori society, the	1903	641
Timber trees of the world	1903	605
Exotic trees in Canterbury	1904	569
Hauner thermal springs	1905	631
Maori, colour-sense of the	1905	637
Thermal springs, the	1905	614
Maori marriage customs	1906	618
Tree-planting	1906	611

Article on	Appeared for the Last or Only Time in the Year-Book of	
	Year	Page
White Island, a day on	1906	637
Maori, ancient: His amusements, games, etc.	1907	707
Maori chant (tangi)	1907	711
New Zealand international exhibition	1907	701
Maori, ancient: His clothing	1908	734
Maori songs	1908	739
Agriculture in New Zealand (by M. Murphy, F.L.S.)	1912	809
Government training-ship <i>Amokura</i>	1913	942
H.M.S. <i>New Zealand</i>	1913	932
Land and income tax assessment	1913	884
Mineral waters of New Zealand	1913	896
External trade of New Zealand, the	1915	858
Maori, topographical nomenclature of the	1919	936
Wages and working hours in New Zealand	1919	860
Education system of New Zealand, the	1925	816
Effect of nativity order on infant mortality	1925	835
Local government in New Zealand	1925	845
Terman intelligence tests in New Zealand schools	1925	823
Wellington municipal milk supply	1925	777
Cancer in New Zealand: A statistical study	1926	889
Totalizer, the	1926	838
<i>Britomart</i> , mission of, at Akaroa, in August 1840	1927	1012
Mortality rates, New Zealand	1927	995
Livestock production: A review based on standard values and units	1929	990
Lakes of New Zealand	1932	11
Rivers of New Zealand	1932	6
Dairy-farm survey	1938	429
Ross Dependency	1938	900
Farms, the	1940	36
Geology	1940	7
Libraries	1940	928
Mineral waters and spas	1940	935
Plants of New Zealand, the	1940	28
Tourist attractions	1940	932
Alexander Turnbull Library	1946	914
National Film Unit	1946	724
Retail prices in New Zealand, with special reference to the Consumers' Price Index	1947-49	998
Economic policy and national income	1950	1033
Department of Scientific and Industrial Research	1951-52	1066
Standardization	1951-52	1076
Sources of Statistical Information	1953	1016

(c) GENERAL BIBLIOGRAPHY

Until recently successive issues of the Year-Book contained a comprehensive list of New Zealand works, but considerations of space prohibit the publication of such a list in this issue.

The following list, compiled by Mr C. R. H. Taylor, M.A., Dip. Jour. (Librarian of the Alexander Turnbull Library) includes the more notable works in their fields issued from 1930 onwards. Earlier works are listed in the 1947-49 issue of the Year-Book (pages 979-998) and in the 1932 issue.

Apart from this listing, the following may be noted. Government Departments, municipalities, boards, church organizations, institutions, associations, councils, authorities, and banks commonly issue annual reports. Some, particularly Government Departments, issue information brochures and books. The Standards Institute produces standards for a wide range of products. A series of diplomatic brochures is issued by the Department of External Affairs. Maps of many kinds are available from the Department of Lands and Survey. Statistical publications, including census, are compiled by the Census and Statistics Department. Business and general directories are published by Wise, Universal Business Directories, and Stone.

Lists of current publications in New Zealand are issued by the General Assembly Library, and printed cards of accessions by the National Library Service may be purchased. The Government Printing Office carries a large stock of Government publications.

BIBLIOGRAPHY AND LIBRARIES

BAGNALL, A. C., and OLSSON, A. L. Index to N.Z. periodicals and current national bibliography of N.Z. books and pamphlets published in 1951. Wellington. N.Z. Library Association, 1952.

BAGNALL, A. C. (editor). Union list of serials in New Zealand libraries. Wellington. N.Z. Library Service, 1953. A first supplement has been issued.

HARRIS, Wm. J. Guide to New Zealand reference material and other sources of information. 2nd edition. Wellington. N.Z. Library Association, 1950.

NORTHERN ADVOCATE INDEX. (Quarterly). Whangarei. Northern Publishing Co.

OLSSON, A. L. Index to New Zealand periodicals. Wellington. N.Z. Library Association, 1950.

TAYLOR, Clyde Romer Hughes. A Pacific bibliography: Printed matter relating to the native peoples of Polynesia, Melanesia, and Micronesia. (Includes classified bibliography on the Maori.) Wellington. Polynesian Society, 1951.

RELIGION AND MYTHOLOGY

PARR, Stephen. Canterbury pilgrimage: the first hundred years of the Church of England in Canterbury, New Zealand. Christchurch. Centennial Committee of the Diocese of Christ-church, 1952.

SOCIAL AND ECONOMIC STUDIES

ALEXANDER, Robert Ritchie. The story of Te Aute College. (The leading secondary school for Maori boys.) Wellington. Reed, 1951.

BARR, Janet R. Within sound of the bell. Christchurch. Whitcombe & Tombs, 1953.

BRIDGER, Grover Leon. Fertilizer production in New Zealand. Wellington. Government Printer, 1951.

BUTCHERS, A. G. Centennial history of education in Canterbury. Christchurch. Canterbury Education Board, 1953.

CAMPBELL, Richard M. The Public Service Commission in operation. Wellington. Institute of Public Administration, 1950.

CONFERENCE ON CAPITAL DEVELOPMENT IN NEW ZEALAND DURING THE NEXT TEN YEARS. Christchurch, 1953. (Mimeographical.)

DOLLIMORE, H. N. The Parliament of New Zealand and Parliament House. Wellington. Government Printer, 1953.

HADFIELD, J. W. Linen flax fibre production in New Zealand. Christchurch. Linen Flax Corporation of New Zealand, 1953.

LOCHORE, Reuel Anson. From Europe to New Zealand. An account of our continental European settlers. Wellington. Reed, 1951.

MACKAY, J. K. Broadcasting in New Zealand. Wellington. Reed, 1953.

MAPLES, E. Social security services in New Zealand. Oxford University Press, 1949.

MASSEV AGRICULTURAL COLLEGE. Dairy farming annual (since 1948). Palmerston North.

MASSEV AGRICULTURAL COLLEGE. Sheepfarming annual (since 1938). Palmerston North.

NEW ZEALAND GOVERNMENT. The New Zealand economy 1939-1951. Wellington. Government Printer, 1951.

NEW ZEALAND UNIVERSITY. Alphabetical roll of graduates. Wellington. Whitcombe & Tombs, 1951.

NEW ZEALAND UNIVERSITY. The University of New Zealand Calendar. Wellington (Annual). Individual colleges issue separate calendars.

PARKER, R. S. (editor). Economic stability in New Zealand. Wellington. New Zealand Institute of Public Administration, 1953.

SCHOLEFIELD, Guy Hardy. New Zealand parliamentary record 1840-1849. Wellington. Government Printer, 1950.

SOCIAL SECURITY DEPARTMENT. The growth and development of social security in New Zealand ... (1898-1949). Wellington. Government Printer, 1950.

SMITH, Sir David S. Devolution in academic matters: the Rhodes scholarships. Wellington. University of New Zealand, 1953.

WILD, L. J. The development of agricultural education in New Zealand. Christchurch. Whitcombe & Tombs, 1953. (The Macmillan Brown Lectures.)

LAW

BIRKS, Walter Richard. The legal relationship of parent and child. Wellington. Legal Publications, 1952.

CHALMERS, Charles Clive. Chalmers' and Dixon's road traffic laws of New Zealand. 2nd edition. Wellington. Butterworth, 1952.

CURRIE, A. E. Crown and subject: A treatise on the rights and legal relationship of the Crown and the people of New Zealand. Wellington. Legal Publications, 1953.

LUXFORD, J. H. Liquor laws of New Zealand. 2nd edition. Wellington. Butterworth, 1953.

MERCANTILE GAZETTE OF N.Z. Digest of legal, commercial, and statistical information. Christchurch. Trade Auxiliary, 1950.

STAPLES, C. A. A guide to New Zealand income tax practice. 13th edition. Wellington. Financial Publications, 1953.

PHILATELY

N.Z. PHILATELIC SOCIETY. Catalogue of New Zealand stamps. Vol. 2, 1951.

LANGUAGE

HARAWIRE, Kahi Takimoana. Teach yourself Maori. Wellington. Reed, 1950.

KOHERE, Reweti Tuhorouta. Maori proverbs and sayings translated and explained. Wellington. Reed, 1951.

KOHERE, He Konae Aromui. Proverbs and sayings of the Maori. Wellington. Reed, 1951.

WILLS, Webster H. Lessons in the Maori language. New Plymouth. Avery, 1950.

BOTANY

REED, A. H. The story of the Kauri. Wellington. Reed, 1953.

WALL, Arnold. Botanical names of the flora of New Zealand. Auckland. Whitcombe & Tombs, 1950.

ETHNOLOGY

ADKIN, G. Leslie. Horowhenua. Wellington. Polynesian Society, 1949.

BUCK, Peter H. The coming of the Maori. Wellington. Maori Purposes Board, 1950.

DEPARTMENT OF MAORI AFFAIRS. Te Ao hou: The new world. (English and Maori journal.) Quarterly. Wellington.

DUFF, Roger S. Moa-hunter period of Maori culture. Wellington. Department of Internal Affairs, 1950.

KELLY, L. Leslie G. Tainui. Wellington. Polynesian Society, 1949.

MEAD, Sidney Moko. Taniko weaving: How to make Maori belts and other useful articles. Wellington. Reed, 1952.

PHILLIPPS, Wm. J. Maori carving. Wellington. Tombs, 1950.

PHILLIPPS, Wm. Maori houses and food stores. Wellington. Dominion Museum (Monograph No. 8.), 1952.

PRICE, A. G. White settlers and native peoples. Melbourne. Georgian House, 1949. (2 chapters on Maori race.)

REED, A. H. & A. W. Maori place-names and their meanings. Wellington. Reed, 1950.

RUFF, Elsie. Jade of the Maori. London. Gemmological Association, 1950.

SUTHERLAND, I. L. G. Ngarimu hui. Wellington. Polynesian Society, 1949.

TAYLOR, William Anderson. Lore and history of the South Island Maori. Christchurch. Bascauds, 1952.

SCIENCE: GENERAL

BASTINGS, Lyndon (editor). Directory of New Zealand science. 2nd edition. Wellington. N.Z. Association of Scientific Workers, 1951.

GRAHAM, David. A treasury of New Zealand fishes. Wellington. Reed, 1953.

NEW ZEALAND ASTRONOMICAL HANDBOOK. (Annual.) Wellington. Royal Astronomical Society of New Zealand.

STIDOLPH, Robert Hector Donald (editor). The Takah: Accounts of field investigations on notornis. Masterton. Ornithological Society of N.Z., 1951.

MEDICINE

BEAGLEHOLE, Ernest. Mental health in New Zealand. Wellington. New Zealand. University Press, 1951.

BROWN, Charles Maurice Bevan. Sources of love and fear. Wellington. Reed, 1950.

POETRY

BAXTER, James Keir. Recent trends in New Zealand poetry. Christchurch. Caxton, 1951.

BAXTER, The fallen house: Poems. Christchurch. Caxton, 1953.

CAMPBELL, Alistair. Mine eyes dazzle. Poems, 1947-49. Christchurch. Caxton, 1950.

CURNOW, Thomas Allen Monro (editor). A book of New Zealand verse. 1923–50. Christchurch, Caxton, 1951.

GLOVER, D. J. M. Arawata Bill: A sequence of poems. Christchurch, Pegasus, 1953.

JOHNSON, Louis (editor). New Zealand poetry annual. Vol.3. Wellington, Reed, 1953.

WALL, Arnold. A century of New Zealand's praise. Christchurch, Simpson & Williams, 1950.

WILKINSON, Iris Guiver. Houses by the sea and the later poems of Robin Hyde. With an introduction by Gloria Rawlinson. Christchurch, Caxton, 1952.

WOODHOUSE, Airini E. New Zealand farm and station verse, 1850–1950. Christchurch, Whitcombe & Tombs, 1950.

LITERATURE AND ART

BERKMAN, Sylvia Leah. Katherine Mansfield: A critical study. New Haven, Yale University Press, 1951.

HOLCROFT, Montague Harry. Discovered isles: A trilogy. (Second issue of three separate essays). Christchurch, Caxton, 1950.

HOWELL, Arthur R. Frances Hodgkins: Four vital years. London, Rockliff, 1951.

MANSFIELD, Katherine. Katherine Mansfield's letters to John Middleton Murry. London, Constable, 1951.

THE NEW ZEALAND WRITERS' HANDBOOK, edited for the P.E.N., New Zealand Centre, by Stuart Perry. Wellington, Reed, 1952.

FICTION

DAVIN, D. M. (editor). New Zealand short stories. Oxford University Press, 1953.

GUTHRIE, John. Paradise Bay. London, Werner Laurie, 1952.

MANSFIELD, Katherine. Selected short stories, with an introduction by D. M. Davin. Oxford University Press, 1953.

WILSON, Guthrie Edward. Julian Ware. London, Robert Hale, 1952.

DESCRIPTION AND TRAVEL

BRUNNER, Thomas. The great journey. An expedition to explore the interior of the Middle Island, 1846–48. Christchurch, Pegasus, 1952. Edited by John Pascoe.

NAN KIVELL, Rex de C. The Rex Nan Kivell Collection of early New Zealand pictures. Wellington, Department of Internal Affairs, 1953.

NEWTON, Peter. High country journey. Wellington, Reed, 1952.

NEW ZEALAND DEPARTMENT OF TOURIST AND PUBLICITY. A Tour of New Zealand by Her Majesty the Queen and the Duke of Edinburgh, 1953–54. Wellington, Government Printer, 1953.

PANTON, H. S. New Zealand. A preview of the land of the long white cloud. London, Rockliff, 1951.

PASCOE, John Dobree. Land uplifted high. Christchurch, Whitcombe & Tombs, 1952.

REED, Arnold Wycliffe. The story of New Zealand place names. Wellington, Reed, 1952.

REEVES, W. P. The long white cloud. Ao-tea-roa ... with additional chapters by A. J. Harrop. London, Allen & Unwin, 1950.

RICHARDS, J. H. Waitomo Caves. Wellington, Reed, 1953.

SUTHERLAND, W. T. G. The golden bush. London, Michael Joseph, 1953. Also at Christchurch, Whitcombe & Tombs, 1953.

WHITE'S AVIATION LTD., Auckland. White's pictorial reference of New Zealand: Representative air views of N.Z. cities and boroughs. Auckland, White's Aviation, 1952.

WILKINSON, Alexander Stanley. Kapiti bird sanctuary. Masterton, Stidolph, 1952.

BIOGRAPHY: COLLECTIVE

BRYANT, L. V. New Zealanders and Everest. Foreword by Sir Edmund Hillary. Wellington, Reed, 1953.

BURDON, R. M. New Zealand notables: Series three. Christchurch, Caxton, 1951.

FURKERT, F. W. Early New Zealand engineers, edited by W. L. Newnham. Wellington, Reed, 1953.

NEW ZEALAND BUSINESS WHO'S WHO, 1953. Wellington, Watkins, 1953.

SCHOLEFIELD, Guy Hardy. Who's who in New Zealand, 5th edition. Wellington, Reed, 1951.

WHITE'S AIR DIRECTORY AND WHO'S WHO IN N.Z. AVIATION (including the South Pacific), 1953–54. Auckland, White's Aviation, 1953.

BIOGRAPHY: PERSONAL

ALPERS, Antony. Katherine Mansfield, a biography. New York, Knopf, 1953.

CARRINGTON, C. E. John Robert Godley of Canterbury. Christchurch, Whitcombe & Tombs, 1950.

CODY, J. F. Man of two worlds: Sir Maui Pomare. Wellington, Reed, 1953.

DOMETT, Alfred. The diary of Alfred Domett, edited by E. A. Horsman. Oxford University Press, 1953.

ROTH, Herbert Otto. George Hogben, a biography. Wellington, New Zealand Council for Educational Research, 1952.

STEVENS, Percival George William. John Grigg of Longbeach. Christchurch, Whitcombe & Tombs, 1952.

THORN, James. Peter Fraser, New Zealand's wartime Prime Minister. London, Odhams Press, 1952.

WILD, L. J. The life and times of Sir James Wilson of Bulls. Christchurch, Whitcombe & Tombs, 1953.

WILSON, Helen Mary. My first eighty years. Hamilton, Paul's Book Arcade, 1950.

HISTORY: GENERAL

CONDLIFFE, J. B., & AIREY, W. T. G. A short history of New Zealand, 7th edition. Christchurch, Whitcombe & Tombs, 1953.

MILLER, Harold G. New Zealand. London, Hutchinson, 1950.

NEW ZEALAND DOMINION ARCHIVES. A guide to the Dominion Archives. Wellington, Department of Internal Affairs, 1953.

HISTORY: SPECIAL

CLAND, Leopold George Dyke. The early Canterbury runs and glossary of station terms. (Incorporating earlier volumes.) Christchurch, Whitcombe & Tombs, 1951.

BAGNALL, A. G. Masterton's first hundred years. Masterton, Centennial Committee, 1954.

BAGNALL, A. G. Old Greytown, 1854–1954. Greytown Centennial Book Committee, 1953.

COOK, JAMES. Captain Cook in New Zealand. Extracts from the journals, edited by A. H. and A. W. Reed. Wellington, Reed, 1951.

GODLEY, Charlotte (Wynne). Letters from early New Zealand, 1850–1853. Christchurch, Whitcombe & Tombs, 1951.

GRAINGER, John. The Auckland story ... through the years. Wellington, Reed, 1953.

INGRAM, Charles William Nepean, and WHEATLEY, P. Owen. Shipwrecks: New Zealand disasters, 1795–1950. Wellington, Reed, 1951.

JILLETT, J. W. L. Wings across the Tasman, 1928–53. Wellington, Reed, 1953.

JOHNSON, John. The Story of Lyttelton. Lyttelton, Lyttelton Borough Council, 1952.

KELLY, Leslie George. Marion Dufresne at the Bay of Islands. Wellington, Reed, 1951.

MACKAY, Joseph Angus. Historic Poverty Bay and the East Coast. Gisborne, The Author, 1949.

MCLINTOCK, A. H. Liquor and the King Country. Wellington, Government Printer, 1953.

MEIKLEJOHN, G. M. Early conflicts of press and government. A story of the first New Zealand Herald and of the founding of Auckland. Auckland, Wilson & Horton, 1953.

PETERSEN, George Conrad. The pioneering days of Palmerston North. Levin, Kerslake, Billens, and Humphrey, 1952.

RAMSDEN, George Eric Oakes. Rangiatea: The story of Otaki church. Wellington, Reed, 1951.

SCOTT, R. G. 151 days: History of the great waterfront lockout and supporting strikes, February 15–July 15, 1951. Auckland, New Zealand Waterside Workers' Union, 1953.

SINCLAIR, Keith. Maori land league. Auckland University College, 1950.

SMITH, R. A. Printing in Canterbury: A history of newspapers and printing houses. Christchurch Club of Printing House Craftsmen, 1953.

STEWART, George Gordon. The romance of New Zealand railways. Wellington, Reed, 1951.

WATERS, Sydney David. Union Line: A short history of the Union Steamship Company of New Zealand. Wellington, The Company, 1952.

HISTORY: WAR

WATERS, S. D. Ordeal by Sea. N.Z. Shipping in the Second World War, 1939–45. London, N.Z. Shipping Company, 1949.

The following have been published by the War History Branch, Department of Internal Affairs, Wellington.

BURDON, R. M. 24 Battalion. 1953.

CODY, J. F. 21 Battalion. 1953.

DAVIN, D. M. Crete. 1953.

GILLESPIE, O. A. The Pacific. (Official History of New Zealand in the Second World War.) 1952.

HALL, D. O. W. New Zealanders in South Africa, 1899–1902, 1949.

HENDERSON, J. H. R.M.T. 1954.

LLEWELLYN, S. P. Journey towards Christmas. (Official History of the 1st Ammunition Company, 2nd N.Z.E.F.) 1949.

MASON, W. W. Prisoners of war. 1954.

MCKINNEY, J. B. Medical units of 2nd N.Z.E.F. in Middle East and Italy. 1952.

NORTON, F. D. 26 Battalion. 1952.

THOMPSON, H. L. New Zealanders with the Royal Air Force. Vol. I. European Theatre, September 1939–December 1942. 1953.

WAR HISTORY BRANCH. Documents relating to New Zealand's participation in the Second World War, 1939–45—

Vol. I, 1950.

Vol. II, 1951.

UNDERHILL, Rev. M. L., and others. New Zealand chaplains in the Second World War. 1950.

Episodes and Studies

The following is the complete range of *Episodes and Studies* published by War History Branch, Department of Internal Affairs, Wellington, from 1948–54.

CLARE, B. G. Early operations with Bomber Command. 1950.

DEAN, H. R. The Royal New Zealand Air Force in South-East Asia, 1941–42. 1952.

FAIRCLOTH, N. W. New Zealanders in the Battle of Britain. 1950.

HALL, D. O. W. Women at war. 1948. Prisoners of Germany. 1949. Prisoners of Italy. 1949. Prisoners of Japan. 1949. Coastwatchers. 1951. Escapes. 1954.

KAY, R. L. Long range desert group in Libya, 1940. 1949. Long range desert group in the Mediterranean. 1950.

LLEWELLYN, S. P. Troopships. 1949.

MCGLYNN, M. B. Special service in Greece. 1953.

MCKINNEY, J. B. Wounded in battle. 1950.

MURPHY, W. E. Point 175. 1954.

ROSS, J. M. S. The assault on Rabaul. 1949.

SMITH, E. H. Guns against tanks. 1948.

THOMPSON, H. L. Aircraft against U-boat. 1950.

WARDS, I. McL. Takrouna. 1951.

WAR HISTORY BRANCH STAFF. "The other side of the bill." 1952.

WATERS, S. D. *Achilles* at River Plate. 1948. German raiders in the Pacific. 1949. *Leander*. 1950.

WHELAN, J. A. Malta airmen. 1951.

COOK AND OTHER ISLANDS

SIMPSON, Frank A. Chatham Islands. Wellington, Reed, 1950.

THOMAS, Marjory C. J. Forgotten islands of the South Pacific, by Rosaline Redwood (*pseud.*) (Solander, Codfish, Ruapuak, Macquarie, and Chatham Islands.) Wellington, Reed, 1950.

UNIVERSAL business directory for Pacific Islands. Auckland, Universal Business Directories, 1950.

SAMOA

CHURCHWARD, Spencer. A Samoan grammar. 2nd edition. Spector Publishing Co., Melbourne, for Methodist Church of Australasia, 1951.

MARSHALL, Colin, and THOMPSON, T. S. Forestry in Western Samoa. Wellington. Government Printer, 1953.

ROSS DEPENDENCY

THE ANTARCTIC TO-DAY. Compiled by members of the New Zealand Antarctic Society, Wellington. Reed, 1952.

(d) ROYAL TOUR OF NEW ZEALAND, 23 DECEMBER 1953 TO 30 JANUARY 1954

(Contributed by the Department of Tourist and Publicity)

INTRODUCTION.—Her Majesty Queen Elizabeth II and His Royal Highness the Duke of Edinburgh left England on 23 November 1953 on a British Commonwealth tour that included brief visits to Bermuda, Jamaica, Fiji, and Tonga, five weeks and four days in New Zealand, almost two months in Australia, a short stay in Ceylon, and a call at Gibraltar on the homeward journey.

The significance of the visit of Her Majesty Queen Elizabeth to New Zealand in December 1953 – January 1954 was twofold: She came as Queen of New Zealand, to whom every New Zealander owes loyalty, and as Queen of the British Commonwealth, of which New Zealand is a Member State.

This was the first occasion on which a reigning sovereign had visited the country. Members of the Royal Family to visit New Zealand previously were His Royal Highness the Duke of Edinburgh, the second son of Queen Victoria, in 1869; His Royal Highness the Duke of York, grandfather of Her Majesty, and the Duchess of York, in 1901; His Royal Highness the Prince of Wales, uncle to the Queen, in 1920; the late King George VI, then Duke of York, and the Duchess of York, in 1927; and in 1934 His Royal Highness the Duke of Gloucester.

A tour of this portion of the Commonwealth by the late King George VI, the Queen Mother, and Her Royal Highness Princess Margaret in 1949 was being planned in 1947. His Majesty's, ill health, however, led to the tour being cancelled. Another one was planned for His Majesty in 1952, but this too was abandoned.

His late Majesty's health made it improbable that he would be able to undertake a Commonwealth tour, so in January 1953 Her Majesty, then Princess Elizabeth, accompanied by her husband, undertook the task on his behalf. King George VI died on 6 February of that year, shortly after she reached East Africa, and Queen Elizabeth returned to England. The decision to fulfil the promise to visit the Commonwealth countries made by her late father doubtless influenced Her Majesty to make the tour shortly after her coronation.

ORGANIZATION.—The organization of the New Zealand tour was under the direction of the Prime Minister, the Right Hon. S. G. Holland, C.H., who was also Minister in Attendance to Her Majesty while she was in New Zealand. Associated with the Prime Minister was the Hon. (now Sir) W. Bodkin, Minister of Internal Affairs. The Secretary for Internal Affairs, Mr A. G. Harper, was responsible for the administration of the tour, and he was appointed Director of the Royal tour. Mr C. A. Furlong, of the Internal Affairs Department, was Assistant Director. The Director had the following principal staff attached to him in planning and conducting the tour: Mr W. G. Taylor, Chief Postmaster, Wellington, assisted by Mr E. S. Doak, of the Post and Telegraph Department, as Motor Transport Officer; Mr C. H. Williams, Department of Tourist and Publicity, Wellington, as Press and Public Relations Officer; Major N. B. Ingle, Army Headquarters, Wellington, as Movements Officer for travel co-ordination; Mr J. Te H. Grace, Private Secretary to the Minister of Maori Affairs, as Maori Liaison Officer and organizer of Maori receptions; Mr F. J. O'Dea, Department of Internal Affairs, as Administrative Officer; Mr W. L. Middlemass, Department of Internal Affairs, as Accommodation Officer for planning accommodation for Royal, official, and public relations parties; Flight Lieutenant B. W. T. Richards, M.B.E., R.N.Z.A.F., as Baggage Officer. Miss B. N. Manning, Department of Internal Affairs, acted as secretary to the Director of the Tour, and Miss M. W. Tirikatei, of the same Department, as secretary to the Assistant Director. Communications Officer for the tour was Mr H. C. Hildreth, of the Post and Telegraph Department, Wellington.

The Commissioner of Police, Mr E. H. Compton, with the Assistant Commissioner, Mr P. J. Nalder, and Inspector W. S. Brown, were responsible for the safety of the Royal couple, security measures, and crowd control.

Some months before the Royal tour, committees representative of civic, industrial, commercial, and cultural interests were set up in metropolitan and provincial centres for the purpose of coordinating and assisting in arranging public decorations.

Education boards made provision through their schools for children to be present on the special occasions when Her Majesty and the Duke of Edinburgh would attend youth gatherings. Where it was not practicable for the children to attend such functions arrangements were made for them to see the Royal visitors *en route*. A careful selection was made of representative phases of New Zealand agricultural, industrial, commercial, and cultural life for inclusion in the Royal tour. Travel by rail, road, and air was timed with a precision that reflected the thoroughness with which the itinerary had been prepared. In brief, it was a model of detailed planning.

ARRIVAL.—Her Majesty Queen Elizabeth and His Royal Highness the Duke of Edinburgh arrived at Auckland in the *s.s. Gothic* on the morning of 23 December 1953. They were welcomed by His Excellency the Governor-General, Sir Willoughby Norrie and Lady Norrie, the Prime Minister, the Right Hon. S. G. Holland, C.H., and Mrs Holland, and they were then introduced to members of the Harbour Board and their wives.

PROGRESS OF THE TOUR.—Auckland and North Auckland (23–29 December).—At 11 a.m. on the day of their arrival, the Royal couple were accorded a civic welcome at the Auckland Town Hall. On behalf of the people of Auckland, His Worship the Mayor, Mr J. H. Laxford, presented Her Majesty with a pair of greystone book-ends bearing the city's coat of arms, encased in a box made of native totara and kauri woods. At 2.30 p.m. Her Majesty and His Royal Highness met members of the Royal party and pressed parties associated with the tour at Government House, where they were the guests of His Excellency the Governor-General, Sir Willoughby Norrie and Lady Norrie. The only other engagement of the afternoon was a garden party at Government House, when the Royal couple met representative Auckland citizens.

The following day, Thursday, the tour programme began with a visit to the Auckland Public Hospital, where Her Majesty and the Duke made an inspection of the wards and hospital grounds, and met members of the Hospital Board, patients, and members of the staff. Her Majesty was intensely interested, and the visit occupied fifteen more minutes than the time allotted. A visit which followed to the Domain cricket ground, where 16,000 school children were assembled, was a memorable occasion unlikely to be forgotten by all who attended.

In the afternoon Her Majesty and the Duke crossed the Waitemata Harbour to the Devonport Naval Base where, with full honours and ceremonial, the Royal Colour was presented to the Royal New Zealand Navy. After this symbolic and ancient ceremony the Royal couple returned to Government House, where 1,500 Auckland citizens were the guests of the Governor-General and Lady Norrie at a garden reception.

A few hours later, on this Christmas Eve that had been the occasion of one of the most brilliant social functions in the history of Auckland, there occurred the worst railway disaster in New Zealand's history. At the moment the Wellington express train reached the bridge over the flood-swollen Wangahu River, near Tangiwai, an unprecedented volume of water swept away the concrete bridge piers. The engine and many of the carriages crashed into the torrent below, and nearly half of the 278 passengers perished. The sorrow of this tragedy was felt as keenly in Government House, Auckland, as in every New Zealand home.

On Christmas morning Her Majesty took Holy Communion at Bishopscourt, and later the Royal couple attended Divine service at the Cathedral Church of Saint Mary, where the Duke read the second lesson.

A Christmas surprise, greatly appreciated by the Queen and the Duke, was the carol songs by a party of 225 children at Government House, followed by a Santa Claus whose sleigh, drawn by six dappled ponies, carried gifts for Princess Anne and Prince Charles.

Broadcast to the Commonwealth.—At 9 o'clock that evening, in accordance with Royal custom, the Queen gave her Royal message to the Commonwealth. From Government House the Queen made her first broadcast since her Coronation, and the first Christmas message to be sent from outside the United Kingdom. Her Majesty defined the purpose of her tour—

... I set out on this journey to see as much as possible of the people and countries of the Commonwealth and Empire, to learn at first hand something of their triumphs and difficulties, and something of their hopes and fears. At the same time I want to show that the Crown is not merely an abstract symbol of our unity, but a personal and living bond between you and me.

Continuing, Her Majesty commented on the change that had taken place in the character of the Commonwealth—

... As I travel across the world today I am ever more deeply impressed with the achievement and the opportunity which the modern Commonwealth presents.

Like New Zealand, from whose North Island I am speaking, every one of its nations can be justly proud of what it has built for itself on its own soil, but their greatest achievement, I suggest, is the Commonwealth itself, and that owes much to all of them.

This formed, the Commonwealth bears no resemblance to the empires of the past. It is an entirely new conception, built on the highest qualities of man—friendship, loyalty, and the desire for freedom and peace.

To that new conception of an equal partnership of nations and races I shall give myself, heart and soul, every day of my life. ...

On Boxing Day, Saturday, the Royal couple attended their first race meeting in New Zealand, at the Ellerslie course. Leaving after the seventh race Her Majesty and the Duke made an impromptu call on Mr and Mrs J. C. Falloon and their seventeen-year-old daughter, survivors of the train disaster, a simple courtesy expressing the Queen's deep sympathy in the misfortune of her subjects.

In the evening Her Majesty and the Duke of Edinburgh, accompanied by Sir Willoughby and Lady Norrie, Mrs Holland, Sir Michael Adeane (the Queen's private secretary), and other members of the Royal entourage, attended a screening of the British film "The Million Pound Note" at the St. James Theatre.

On the Sunday Her Majesty and His Royal Highness attended Divine service at the Cathedral Church of St. Mary.

The two days devoted to Northland began on Monday morning at Whangarei Air Force Station, where Her Majesty presented the Royal Colour to New Zealand's youngest Service, the Royal New Zealand Air Force. After the ceremony the Queen and the Duke boarded the Royal Dakota of 42 Squadron, R.N.Z.A.F., to fly to Kaikohe *en route* to Waitangi. It was fitting that the first stage of Her Majesty's New Zealand journey should be to the Northland, the scene of the first "triumphs and difficulties" of the pioneers. Here at Waitangi was signed the historic Treaty, under which the Maori people ceded sovereignty to the British Crown. It was in the far north also that the first clash between the Dutch and the Maori people occurred, and from here the first representative of the British Crown exercised his authority.

The Northland visit opened with a civic reception at Kaikohe. After luncheon there the Royal party went on to Waitangi, where Her Majesty received a stirring ceremonial welcome from a combined gathering of Maori people. After inspecting the naval Guard of Honour, Her Majesty visited the Treaty House. A link with the past was the naval display by members of the Royal New Zealand Navy, which emphasized that New Zealand's first Governor was Captain W. Hobson a naval officer.

From Waitangi the Royal couple motored to Whangarei, and here they stayed overnight after a civic reception in Kensington Park. As in Auckland and at Waitangi, the Queen and the Duke of Edinburgh received a great ovation, to be repeated on every stage of their journey throughout New Zealand.

From Whangarei the journey by car was broken at Warkworth for a reception in a typical New Zealand small-town setting. The Royal party then travelled to Puhoi, where a stop was made for an informal picnic lunch on the property of Mr and Mrs H. W. Coudrey, beneath the shade of the pohutukawa at Puhoi Beach.

That evening a Royal Investiture at the Town Hall, Auckland—the first public Investiture to be held in New Zealand—was the last function Her Majesty carried out in the "Queen City".

Waikato (30 December – 1 January).—Leaving Auckland on Wednesday, 30 December, the Royal party drove along the Great South Road, constructed almost a hundred years earlier by soldiers of British regiments then stationed in Auckland. A brief stop was made at Pukekohe for a public welcome, and the journey to Hamilton was broken by a visit to Alton Lodge stud farm at Te Kauwhata, to inspect the thoroughbred racing stallions and other stock of Sir James and Mr J. C. Fletcher.

After a "farmhouse lunch" at Alton Lodge, a stop was made at Huntly, for another public welcome, and then—an event not included in the itinerary—the Queen called on King Koroki, leader of the confederation of the Waikato tribes, at Turangawaewae. The occasion was marked by a ceremony unique in Maori history. After the introduction of Her Majesty to King Koroki, a tohunga invoked the protection of the gods for the Royal couple, the first time this had been done for a woman not of Maori blood.

Hamilton was reached late in the afternoon. A civic dinner and a visit to a youth gathering completed a strenuous day.

Early next morning the Duke of Edinburgh was on his way by air to Wellington to represent the Queen at the mass funeral of the unidentified victims of the rail disaster.

Thursday began with a civic reception at Hamilton showgrounds. Later a display by the Waikato Agricultural and Pastoral Association revealed wealth of the Waikato dairyland with a grand parade of champion cattle. This was followed by a gathering of young riders of the pony clubs, so popular in the district. More unconventional, but no less interesting perhaps, was the exhibition of sheep shearing by the world's champions, Mr Godfrey Bowen and his brother, Mr Ivan Bowen.

Proceeding from Hamilton, Her Majesty was received at Te Kuiti and then went to Waitomo where she was rejoined by the Duke of Edinburgh. For the Royal couple their visit to the Waitomo Caves, like the display they later saw of Rotomua's uncanny thermal activity, the majesty of the Southern Alps, and the grandeur of the Fiordland, revealed one of New Zealand's magnificent examples of nature's beauty. The Queen and the Duke enjoyed the trip by a small dinghy along the subterranean stream of the Waitomo Caves to view the world-famous Glow-worm Grotto. They also visited Aramui, one of the two caves renowned for the delicacy and loveliness of its formation.

Leaving Waitomo Hotel in the morning of 1 January the Royal couple drove to Te Awamutu for a public welcome, and then on to Cambridge, where they were received and later attended a civic luncheon. Their next stop was at the Karapiro hydro-electric works, the only one to be inspected during the tour. A brief stop for a remarkable country gathering at Tirau was the final function of New Year's Day, 1954.

At 5.30 p.m. Her Majesty and the Duke arrived at "Moose Lodge", on the shore of Lake Rototoi, the property of Mr Noel Cole, which he had placed at the disposal of the Royal guests, for the first of the two rest periods of the tour.

Rotorua (2–6 January).—Since leaving Auckland the Royal party had journeyed through the rich and varied pasture land of the Waikato, the King Country, and into Rotorua.

At noon the following day Rotorua official functions began with a civic reception at the Motutara Golf Course, a visit to a gathering of school children, followed by a civic luncheon at the Grand Hotel. In the afternoon Her Majesty and the Duke attended a Maori reception at Arava Park, historic as the site of previous receptions given to members of the Royal Family who had made earlier visits to New Zealand.

This welcome from the combined Maori people to the Royal couple was elaborately staged and carried through with great enthusiasm to make it a highlight of the New Zealand tour.

After the ceremonial challenge, the traditional war dance and the powhiri (a posture dance of welcome), five high-born chiefs from the assembled tribes carried to the Royal dais an illuminated address from the Maori race. The Minister of Maori Affairs, the Hon. E. B. Corbett, read, the address, and it was read again in Maori by the Bishop of Aotearoa, the Right Rev. W. N. Panapa, C.B.E. Likening Her Majesty to "the rare white heron of a single flight" the address concluded—

O Royal daughter of an illustrious line, we are proud that you should perpetuate the traditions of your race and House, and for it is meet that those who sit high should turn an equal face to the humble as to the mighty. Walk therefore among the Maori people, sure of their hearts, fostering there n the love they bore you and their Queen Victoria, and for those who have followed her.

Welcome and farewell. Return in peace with the knowledge of our unwavering devotion, taking with you a renewal of the oath we swore to your father and mother on this very ground a generation ago; an oath born in the Treaty of Waitangi, made sacred by time and manifold trials. The loyalty of the Maori people will ever remain. And so, farewell.

The only engagements the following day, Sunday, 3 January, were the Divine service at St. John's Presbyterian Church, Rotorua, where His Royal Highness the Duke of Edinburgh read the lesson, followed by a visit to the thermal area at Whakarewarewa. Monday and Tuesday were spent in relaxation at "Moose Lodge".

Gisborne and Hawke's Bay (6–8 January).—On Wednesday morning, Her Majesty and the Duke left Rotorua airport by the New Zealand National Airways Corporation's Heron aircraft that was used to take them to Gisborne on the first lap of their East Coast itinerary.

After a civic reception in the intermediate school grounds at Gisborne, Her Majesty and the Duke motored to the top of Kaiti Hill overlooking the coast on which Captain Cook first landed in Poverty Bay in 1769.

From Gisborne to Napier the aircraft used was the Royal Dakota of 42 Squadron, R.N.Z.A.F. After the civic reception in McLean Park the Bowen brothers, at the request of the Queen, gave a second sheep-shearing demonstration for the Duke, who missed the first at Hamilton owing to his being in Wellington.

The Duke attended a reception by the Hawke's Bay Executive, Naval Officers' Association. Remaining overnight in this Hawke's Bay city, the Royal couple had a full programme next day.

Journeying by car to Hastings, they attended a public welcome, and then inspected the factory of J. Wattie Camerries Ltd., the first of several factory visits in the itinerary.

After the factory visit, the Royal Party joined the Royal train for the first time and journeyed through Hawke's Bay, brief stops being made at Waipawa, Waipukurau, Dannevirke, and Woodville, at each of which places there were great gatherings.

Manawatu, Wanganui, and Taranaki (8–10 January).—Palmerston North, the main city of the rich Manawatu district, greeted the Royal couple late in the afternoon. A civic reception in the Square and a civic dinner at night rounded off the day.

Friday, 8 January, was another strenuous day for Her Majesty and His Royal Highness the Duke of Edinburgh. Again traveling by Royal train they made stops at Feilding railway crossing, at Marton Junction for a public welcome at the railway station, and at Wanganui for a civic reception at Cook's Gardens. They continued on to Taranaki, with a stop at Fataa for a public welcome at the railway station, a ceremonial drive at Hawera, and a public welcome at Stratford. The busy day ended at New Plymouth, where the Royal couple stayed overnight.

The next day's programme began with a visit to the Bell Block Co-operative Dairy Factory. Then there followed a civic reception at Pukekura Park, luncheon, and the start of their journey to Wellington by air from the Bell Block airport.

Wellington and Waitara (10–16 January).—The arrival at Paraparaumu set the high standard maintained throughout the visit to the capital city and its surrounding districts. At Paraparaumu airport adults and children under special arrangements had come from the northern districts up to and including Levin.

On reaching Wellington the Royal visitors stopped at the Town Hall for a formal meeting with His Worship the Mayor, Mr R. L. Macalister, as the civic reception was not to be held until two days later.

The Royal couple then drove to Government House, where they were the guests of His Excellency the Governor-General, Sir Willoughby Norrie, and Lady Norrie.

Divine service at the Cathedral Church of St. Paul was the only engagement on Sunday. Here again the Duke read the second lesson.

The visit to the capital was distinguished by a variety of engagements, chief among which were the State functions—the opening of a special session of Parliament, the State luncheon, and the reception to the heads of Diplomatic Missions to Government House. Her Majesty also presided at meetings of the Privy Council and Executive Council.

On Monday morning the citizens of Wellington paid their respects to the Royal couple at a civic reception at the Town Hall. Later 15,000 people watched Her Majesty and His Royal Highness the Duke of Edinburgh place a wreath at the morning tillane Wai Memorial. After this ceremony the State luncheon was held in the social hall, Parliament House. Proposing the Royal toast, the Prime Minister, the Right Hon. S. G. Holland, said—

... I venture to say that there, is at this moment such a flood of loyalty to Your Majesty and to Your Royal Highness from all parts of the British Commonwealth as has never been surpassed in all its history. ... From personal contacts between our Sovereign and the peoples of the British Commonwealth great good will flow, for I am convinced that we have entered a period of history when we of the Commonwealth nations have the capacity to exercise a most significant, even decisive, role in international affairs. We rejoice and take heart from the mounting evidence of recovering strength and influence of the British Empire—the greatest force for good the world has ever known. ...

In replying to the toast, Her Majesty referred to New Zealand as "a rich and lovely land, crossing the threshold of a great era".

... May you continue to seize the opportunities which here have been so richly bestowed; and may you never fail in your determination to keep to the paths of peace and orderly progress to which your steps are already turned; so that generations to come will honour your names and this nation, and the British people which gave it birth. ...

At the luncheon Her Majesty was presented, on behalf of the New Zealand people, with a tea service made by New Zealand craftsmen. From Parliament House Her Majesty and the Duke drove to Petone, where a visit to the assembly plant of the Ford Motor Company of New Zealand Ltd. was followed by a ceremonial drive along the Hutt Valley, including a non-scheduled detour through the grounds of the Hutt Hospital and a visit to the recently erected Anglican Church of St. James, Lower Hutt, where the Royal couple signed the visitors' book.

In the evening the reception to the heads of the Diplomatic Missions was held at Government House.

From 10.30 a.m. to noon on Tuesday, 12 January, was the big occasion for Wellington parents and children, when the Queen and the Duke visited Athletic Park, where over 15,000 children and 20,000 adults gathered to give the Royal visitors a rousing welcome. On the journey back to Government House the Royal couple drove through the grounds of the Wellington Public Hospital.

Opening of Special Session of Parliament.—In the afternoon Her Majesty fulfilled perhaps the most significant duty of her tour when, as Sovereign of New Zealand and Head of the Commonwealth, she opened a special session of Parliament. Thus for the first time in the history of the country the reigning Sovereign presided at the opening of the Legislature.

Speaking on the achievements of parliamentary government in New Zealand, Her Majesty said—

... A hundred years ago, when the people of New Zealand gained for themselves the right to responsible self-government, it would have required a prophetic imagination to have forecast the possibility of the present occasion. But in these hundred years New Zealand has grown to be a sovereign and mature State, while the ocean surrounding these beautiful lands has become a main highway in a world which has itself been

transformed. ...

Other formal constitutional functions at which a Sovereign presided for the first time in New Zealand were a short meeting of the Privy Council and a meeting of the Executive Council.

After the opening of Parliament Her Majesty and His Royal Highness met members of Parliament and their wives at a reception in the social hall, Parliament House. In the evening, the second Investiture of the tour was held at the Wellington Town Hall.

A notable ecclesiastical function of the tour took place on Wednesday morning, when Her Majesty laid the foundation stone of the Wellington Anglican Cathedral. Afterwards, the Duke of Edinburgh was the guest speaker at a meeting of New Zealand scientists in the Dominion Museum, followed by a luncheon. In this, his first speech in New Zealand, His Royal Highness spoke of the importance of the role of science in the present and future development of New Zealand. Her Majesty attended a special luncheon where she met the members of Parliament and their wives.

Later that afternoon, in perfect weather, 4,000 guests assembled at a Government House garden party.

Thursday was one of the less formal days of the tour. Leaving Wellington in the morning the Royal couple spent an enjoyable day at the Trentham Races. On the way to Trentham a special drive was made through the Hutt Valley, including a detour through the grounds of the Silverstream Hospital. That evening the Duke of Edinburgh was the guest of the president and members of the Wellington Club at a dinner.

Friday, 15 January, the last full day in the North Island, was devoted to an excursion to the Wairarapa. The journey to Masterton was made by the Royal train over the Rimutaka Range, and the return by motor car. The one reception was at Masterton, and after lunching there the Royal couple returned via Carterton, Greytown, Featherston, and Upper Hutt.

Marlborough, Nelson, and Westland (16–18 January).—On the morning of Saturday, 16 January, the Royal couple said good-bye to Wellington and the North Island, travelling to Parapararamu by car, and over Cook Strait in the Royal Dakota aircraft to Blenheim, landing at the Woodbourne R.N.Z.A.F. Station. They proceeded by car to the Market Place, where they received the first public welcome in the South Island.

By 1.15 p.m. the Royal Dakota was in the air again on the way to Nelson. After visiting a special children's gathering and a civic reception on the Cathedral steps, the Royal couple walked to the Hotel Nelson. The Duke later visited the Cavtrown Institute, Nelson's notable research centre, where he examined and discussed the latest scientific measures to assist pasture development.

On Sunday morning the Royal couple attended Divine service at the Nelson Cathedral. The Duke read the second lesson. After lunch they set out on the third stage of their tour of the South Island.

The Royal Dakota of 42 Squadron, R.N.Z.A.F., captained by Squadron Leader L. C. Siegert, D.F.C., A.F.C., commander of seven of the eight Royal flights in New Zealand, made a perfect trip to Westport. The stop was a short one. A public welcome was held on the dais at the airport, following a drive in an open car around an enthusiastic gathering. Heading for Hokitika, the Dakota shifted off course to give the Royal couple a view of Mt. Cook and the Southern Alps on a perfect afternoon. Hokitika, reached on this last lap of travel by air, was the scene of another enthusiastic welcome. An unexpected surprise for the patients and staff of the Hokitika Hospital was the Royal drive through the hospital grounds.

The Royal party motored to Grey mouth and passed the Anahua Pa, where there was a rousing roadside welcome from the first South Island Maori settlement to see Her Majesty. An overnight stay was made at Grey mouth, and the civic reception took place next morning near the Borough Council Chambers, followed by a morning tea reception. To the Queen the Mayor presented an album of coloured photographs of the West Coast. The Duke received a greenstone paper knife mounted with gold. Gifts to the Royal couple had been a feature of the tour since, on stepping ashore at Auckland, the Queen was presented with a 7-foot P Class yacht for Prince Charles as a gift from the Auckland Harbour Board.

Canterbury (18–25 January).—In leaving the West Coast the Royal party journeyed for the first time in the South Island Royal train, and enjoyed a perfect day for the spectacular crossing of the alpine chain, with its magnificent scenery.

The journey to Christchurch was broken at Oira and at Arthur Pass. It was at Arthur Pass that the Queen received a bouquet, unique for the tour. Early that morning a party of men had climbed more than 3,000 ft. to gather mountain daisies, which were intertwined with red mistletoe and bronze-green birch leaves. The third stop was at Darfield, where some 6,000 adults and 1,200 school children had gathered.

At Christchurch railway station the Royal guests were welcomed by His Worship the Mayor, Mr R. M. Macfarlane, M.P. The great ovation that greeted the Queen and Duke on their drive from the station was a fitting conclusion to a wonderful day. And so began the visit to Christchurch.

The first day opened with the civic reception in Cathedral Square, followed by a visit to the Public Hospital, where Her Majesty and His Royal Highness met members of the Hospital Board, staff, and patients. A ceremonial drive through the city brought the visitors to the Disabled Servicemen's Training Centre at Riccarton. An inspection of the Centre and chats to returned men at work occupied well over an hour. On return the Royal party attended Evensong at the Cathedral, the Duke again reading a lesson. A civic dinner concluded a busy day.

On Wednesday, Her Majesty and His Royal Highness obtained a further insight into New Zealand's secondary industries during a visit to the clothing factory of Lane, Walker, Rudkin, Ltd. The Duke was a guest at a luncheon of the Canterbury Chamber of Commerce. In a twelve-minute speech His Royal Highness praised the manner in which New Zealanders had developed the natural resources of the country. In the afternoon the third and last public Investiture of New Zealanders took place in the Civic Theatre, and this was followed by a civic garden party at the Botanic Gardens. On Thursday the Royal couple made acquaintance with the sport of trotting at the New Zealand Metropolitan Trotting Club's meeting at Addington, and in the evening attended the Regent Theatre to see a screening of the British comedy, "The Love Lottery". Afterwards the Duke visited the Tin Hat Club at a function at the Winter Gardens.

On Friday, 22 January, after leaving Christchurch, the first engagement was a visit to Burnham Military Camp. The feature of this event was a tour of inspection of eighteen-year-old trainees. The journey was continued to the large public welcome at Ashburton in the Domain, after which the Royal guests went to "Longbeach," the property of Mr and Mrs John H. Grigg, where the Royal couple rested until the morning of 25 January.

On Monday, 25 January, the Royal party began the next stage of the South Island tour. Five full days remained to cover South Canterbury, Otago, and Southland. Leaving "Longbeach" for Timaru by car, the Royal couple saw the Canterbury Plains under almost ideal conditions. After a civic reception at Ashbury Park, Timaru, and a civic luncheon, the Royal visitors rejoined the Royal train.

Otago (25–28 January).—The first stop after Timaru was at Oamaru, where a public welcome was given at Takaro Park. The next and last stop before Dunedin was at Palmerston, for another great gathering.

Dunedin matched the welcome of the other great cities, both sides of the route from the railway station to the Law Courts Hotel, where the Royal couple were to stay, being lined by an enthusiastic crowd. For hours in the evening people surged around the hotel, even after the Queen and the Duke, as they had done in so many other places, had waved from the balcony.

The following morning was devoted to a civic reception in the Town Hall, and in the afternoon the Queen and the Duke attended the only sports meeting of the tour, held at Carisbrook. On the way to the meeting they visited Forbury Park, the scene of one of the most spectacular youth gatherings of the tour. The day was also notable for the one Royal concert of the tour, arranged for that evening in the Town Hall by the New Zealand National Broadcasting Service.

The second day in Otago's capital included an inspection of Messrs Ross and Glendining's Roslyn Woollen Mills. The Queen and the Duke had separate functions in the afternoon. Her Majesty visited the Dunedin Karitane Hospital, Dominion training centre for nurses of the Plunket Society, founded by the late Sir Truby King. His Royal Highness met Dunedin sportsmen at an informal gathering in the Municipal Chambers. Towards the end of the afternoon came the last Dunedin engagement, a reception by His Worship the Mayor, Mr L. M. Wright, and members of the City Council, in the City Gallery.

Southland (28–30 January).—On Thursday morning the Royal couple left Dunedin by car for Invercargill. Brief stops were made at Milton, Balclutha, and Gore, with luncheon at the last-named place. Invercargill was reached late in the afternoon after a 140-mile drive. His Worship the Mayor, Mr A. L. Adamson, welcomed Her Majesty and His Royal Highness to Southland on the following morning at the civic reception at Queen's Gardens.

The next engagement, the last of its kind of the tour, was eagerly awaited at Rugby Park, where thousands of excited Southland children and their parents had assembled hours earlier to see the Royal visitors. On the way back to the city the last call was made to a hospital by a drive through the Invercargill Hospital grounds at Kew. After lunch, on this their last full day in New Zealand, Her Majesty and His Royal Highness attended the combined Royal Agricultural Show and Caledonian sports meeting at the Showgrounds.

Farewell Broadcast.—In the evening Her Majesty made her farewell broadcast to New Zealand—

... The impression we have received is of a great and united people. We know that in the 113 years which have passed since the Treaty of Waitangi the European and Maori peoples have drawn together, and that to your united strength is constantly being added the vitality and skill of settlers from many countries of the Old World. May this concord of races flourish in the fruitful land and in the splendid and healthy climate which Providence has given you. ...

Not forgetting to thank all those who had worked to make the Royal tour of New Zealand enjoyable, Her Majesty concluded—

... But, above all, we thank the people of New Zealand of all ages for your hospitality and your welcome; we greatly appreciate the many messages and presents which you have given to us for our children and which they will be delighted to receive. We have enjoyed every minute of our stay, and our only regret is that time has not allowed us to visit those Island Territories of which you are so justly proud. Now that the moment has come to leave, we do so with sorrow; but we are also looking forward to the day when we shall once more be able to visit your shores.

May God bless New Zealand and watch over the destinies of her people.

Appointments and Awards.—On Friday evening, Her Majesty held a private Investiture in Invercargill, at which she made the last appointments and awards of Her New Zealand tour.

During the tour Her Majesty made the following appointments to the Royal Victorian Order:—

To be a Knight Grand Cross (G.C.V.O.)

His Excellency Lieutenant-General Sir Charles Willoughby Moke Norrie, G.C.M.G., C.B., D.S.O., M.C., Governor-General of New Zealand.

To be a Knight Commander (K.C.V.O.)

The Honourable William Alexander Bodkin, M.P. of Alexandra.

To be Commanders (C.V.O.)

Mr Eric Henry Compton, of Wellington.

Mr David Emmet Foully, C.B.E., of Wellington.

Mr Arthur Grant Harper, of Wellington.

Major Michael Augustus Tuik Trasenster, 4th–7th Royal Dragoon Guards, of Wellington.

To be Members of the Fourth Class (M. V.O.)

Mr Clement Anthony Furlong, of Wellington.

Mr Percy James Nalder, of Wellington.

To be Members of the Fifth Class (M.V.O.)

Mr Willis Spencer Brown, of Wellington.

Mr John Te Herekikie Grace, of Wellington.

Major Noel Rodney Ingle, The New Zealand Regiment, of Trentham.

Miss Betty Nora Manning, of Wellington.

Mr William Laurie Middlemass, of Auckland.

Mr Patrick Jerad O'Dea, of Lower Hutt.

Mr Peter John Hope Purvis, B.E.M., of Wellington.

Flight Lieutenant Bruce William Thomas Richards, M.B.E., R.N.Z.A.F., of Wellington.

Squadron Leader Cyril Lawrence Siegert, D.F.C., A.F.C., R.N.Z.A.F., of Whenuapai.

Mr William Graham Taylor, of Wellington.

Captain Henry Campbell Walker, A.F.C., National Airways Corporation, of Lower Hutt.

Mr Charles Henry Williams, of Wellington.

The Royal Victorian Medal

Mr John Baxendale, of Auckland.

Mr Allan Stewart Dawson, of Wellington.

Mr Allan Robertson Grant, of Christchurch.

Mr John Nathaniel George Mounsey, of Auckland.

Warrant Officer I Albert Edward Nauils, B.E.M., of Wellington.

Mr Henry Richard Rump, of Wellington.

Mr Horace Joseph Stevenson, of Wellington.

DEPARTURE.—Saturday, 30 January, 1954, was the day of farewell. The short journey to Bluff was through crowded scenes and open countryside. At 9.45 a.m. the Royal party were preparing to embark. There was a brief civic welcome at Bluff, a meeting with Harbour Board, borough representatives, and officials. Then followed the ship-side ceremony and personal farewells. The Royal tour of New Zealand was over.

It was fitting that the weather, so uniformly fine throughout this Royal visit, continued so after the s.s. *Gothic* left Bluff. This allowed the ship to sail into Milford Sound on the following day, 31 January 1954, while *en route* to Australia.

SUMMARY OF ITINERARY AND PROGRAMME.—Below is given a comprehensive chronological summary of the plan for the Royal tour, 1953–54:

Date	Place	Details
1953		
December 23	Auckland	S.S. <i>Gothic</i> arrives.
	Auckland	Her Majesty the Queen and His Royal Highness the Duke of Edinburgh land in New Zealand.
	Auckland	Civic Reception, Town Hall.
	Auckland	Meet at Government House the official and press parties for New Zealand tour.
	Auckland	Garden Party at Government House.
December 24	Auckland	Visit to Auckland Hospital.
	Auckland	Youth gathering, Domain Cricket Ground.
	Auckland	Presentation of Colour, Devonport Naval Base.
	Auckland	Garden reception at Government House.
December 25	Auckland	Attend Divine service, St. Mary's Cathedral.
	Auckland	Her Majesty makes Christmas broadcast from Government House.
December 26	Auckland	Attend Auckland Racing Club's Meeting, Eilerslie.
	Auckland	Attend Royal cinema performance, St. James Theatre.
December 27	Auckland	Attend Divine service, St. Mary's Cathedral.
December 28	Auckland	Presentation of Colour, Whenuapai Air Force Station.
	Kaikohē	Public welcome in Broadway.
	Waitangi	Ceremony at Treaty House.
	Whangarei	Civic reception at Kensington Park.
December 29	Warkworth	Public welcome in main street.
	Puhoi	Picnic at beach of "Wenderholme".
	Auckland	Her Majesty holds Investiture in Town Hall.
December 30	Pukekohe	Public welcome at intersection of King Street and Massey Avenue.
	Te Kauwhata	Visit to Alton Lodge Farm.
	Huntly	Public welcome in main street.
	Ngaruawahia	Visit to Turangawaewae.
	Hamilton	Civic dinner at Cardrona Gardens.
	Hamilton	His Royal Highness attends funeral at Wellington of unidentified Tangiwai railway disaster victims.
December 31	Hamilton	Civic reception, Showgrounds.
	Te Kuiti	Public welcome in main street.
	Waitomo	Visit Aranui Cave.
	Waitomo	Visit Glow-worm Cave.

Date	Place	Details
------	-------	---------

1862	Place	Details
1953		
January 1	Te Awamutu	Public welcome in main street.
	Cambridge	Public welcome outside Town Hall.
	Cambridge	Civic luncheon in Town Hall.
	Karapiro	Visit to hydro-electric station.
	Tirau	Public welcome in Domain.
	Lake Rototiti	Arrive at "Moose Lodge".
January 2	Rotorua	Civic reception at Moutura Golf Course.
	Rotorua	Civic luncheon at Grand Hotel.
	Rotorua	Maori reception at Arawa Park.
January 3	Rotorua	Attend divine service, St. John's Presbyterian Church.
Remainder of stay until morning of 6 January free from official engagements.		
January 6	Rotorua	Leave Rotorua Airport for Gisborne.
	Gisborne	Civic reception in Intermediate School Grounds.
	Napier	Civic reception at McLean Park.
	Napier	His Royal Highness attends Hawke's Bay Ex-naval Officers' Association reception.
January 7	Hastings	Public welcome at Civic Centre.
	Hastings	Visit to factory of J. Watie Canneries, Ltd.
	Waipawa	Brief stop at railway station.
	Waipukurau	Public welcome at railway station.
	Dunedin	Public welcome outside railway station.
	Woodville	Public welcome at railway station.
	Palmerston North	Civic reception at The Square.
	Palmerston North	Civic dinner at C. M. Ross and Co., Ltd.
January 8	Feilding	Brief stop at railway crossing.
	Marton Junction	Public welcome at railway station.
	Wanganui	Civic reception at Cooks Gardens.
	Patea	Public welcome at railway station.
	Hawera	Ceremonial drive.
	Straford	Public welcome in Broadway.
	New Plymouth	Arrive New Plymouth.
January 9	New Plymouth	Visit to Bell Block Co-operative Dairy Factory.
	New Plymouth	Civic reception at Pukekura Park.
	New Plymouth	Fly to Paraparaumu Airport and by car to Wellington.
January 10	Wellington	Attend Divine service, Cathedral Church of St. Paul.
January 11	Wellington	Civic reception at Town Hall.
	Wellington	Lay wreath at Wellington Citizens' War Memorial.
	Wellington	Attend State luncheon in Social Hall, Parliament House.
	Wellington	Visit to assembly plant of Ford Motor Co., Hutt Valley.
	Wellington	Hutt City welcome and visit to St. James' Church.
	Wellington	Reception to heads of Diplomatic Missions, at Government House.
January 12	Wellington	Attend children's gathering, Athletic Park.
	Wellington	Her Majesty opens special session of Parliament.
	Wellington	Attend reception for Members of Parliament and their wives at Parliament House.
	Wellington	Her Majesty holds investiture in Town Hall.
January 13	Wellington	Lay foundation stone of Anglican Cathedral.
	Wellington	His Royal Highness addresses representatives of scientific organizations at Dominion Museum.
	Wellington	Garden party at Government House.
January 14	Wellington	Attend race meeting at Trentham.
	Wellington	His Royal Highness attends dinner at Wellington Club.
January 15	Masterton	Civic reception at Masterton Park.
January 16	Blenheim	Public welcome in Market Place.
	Nelson	Civic reception, Cathedral Steps.
January 17	Nelson	Attend Divine service, Nelson Cathedral.
	Westport	Public welcome at airport.
	Hokitika	Arrive at airport.
January 18	Greymouth	Civic reception at Council Chambers.
	Darfield	Brief stop at railway station.
January 19	Christchurch	Civic reception in Cathedral Square.
	Christchurch	Visit to Christchurch Hospital.
	Christchurch	Ceremonial drive.
	Christchurch	Visit Disabled Servicemen's Vocational Training Centre.
	Christchurch	Attend Evensonsg, Christchurch Cathedral.
	Christchurch	Civic dinner at J. Beath and Co., Ltd.
January 20	Christchurch	Visit factory of Messrs Lane, Walker, Rudkin, Ltd.
	Christchurch	His Royal Highness attends luncheon with and addresses Canterbury Chamber of Commerce.
	Christchurch	Her Majesty holds investiture in Civic Theatre.
	Christchurch	Civic garden party, Botanic Gardens.
January 21	Christchurch	Attend New Zealand Metropolitan Trotting Club's meeting at Addington.
	Christchurch	Attend Royal cinema performance at Regent Theatre.
	Christchurch	His Royal Highness visits Tin Hat Club at Winter Garden.
January 22	Burnham	Visit Burnham Military Camp.
	Ashburton	Public welcome in Domain.
	Longbeach	Arrive at Longbeach.
January 23. Free from official engagements.		
January 24	Longbeach	Attend Divine service at Longbeach.
January 25	Timaru	Civic reception at Ashbury Park.
	Timaru	Civic luncheon at Grosvenor Hotel.
	Oamaru	Public welcome at Takaro Park.

Date	Place	Details
1953		
	Palmerston	Public welcome outside railway station.
January 26	Dunedin	Civic reception at Town Hall.
	Dunedin	Attend sports meeting at Carisbrook.
	Dunedin	Attend Royal concert at Town Hall.
January 27	Dunedin	Visit Messrs Ross and Glending's Roslyn Woollen Mills.
	Dunedin	Her Majesty visits Truby King - Harris (Karitane).
	Dunedin	Hospital.
	Dunedin	His Royal Highness meets outstanding participants in sport at Municipal Chambers.
	Dunedin	Reception by Dunedin City Council at Art Gallery.
January 28	Milton	Public welcome outside Coronation Hall.
	Balclutha	Public welcome at intersection of Renfrew and Clyde Streets.
	Gore	Public welcome at junction of Main and Medway Streets.
January 29	Invercargill	Civic reception at Queen's Gardens.
	Invercargill	Attend combined Royal Agricultural Show and Caledonian Sports Meeting at Showgrounds.
	Invercargill	Her Majesty broadcasts farewell message from Grand Hotel.
January 30	Bluff	Her Majesty the Queen and His Royal Highness the Duke of Edinburgh embark.
	Bluff	s.s. <i>Gothic</i> departs from New Zealand.

INDEX (DETAILED)

NOTE.—Where more than one reference to a subject is given, the chief reference, wherever it has been possible to determine it, is indicated by bold type. Two or more references to a subject so indicated signify major, and approximately equal, importance.

A

Abortion, 92, 109, 110, 118.

Accident Funds, 350, 550.

Accident Insurance, 544, **824-827**.

State, 838-840.

Accidents—

Aircraft, 94.

Causes of, 1001.

Deaths from, 88, **93-96**, 101, 102, 106, 107, 347, **368-369**, 540, 547, **1000-1002**, **1005-1007**.

Farming, 96.

Frequency Rates, 999, 1006.

Industrial, 953-958, 997-1009.

Mining, 95, 540, 547, **997-1009**.

Motor-vehicle, 88, 93, **94**, 96, 101, 106, 107, **366-369**.

Railway, **94**, 96, 347, 368, **997-1009**.

Time Lost Through, 1004-1007.

Tramway, **94**, 368.

Transport, 93, **94**, 368-369.

Acclimatization of Fishes, 7, **832**.

Accommodation Licences, 1046.

Accounts, Public, 695-708.

Acreege and Yield of Crops, 464-479, 1088.

Acreege of Holdings, 395, 396.

Acts Passed in 1953, 1052-1067.

Added Value in Manufacturing, 552, 553, 554, 565-566, 568, 570, 573-589, **1095**.

Administration, 15-18.

Cook Islands, 1014.

Nine, 1020.

Western Samoa, 1023-1024.

Adolescent Dental Service, 122.

Adoptions, 65.

Adult Education, 171-172.

Adultery, 72, 74.

Advances—

Bank, 763, **766-770**, **1100**.

Bank Control Policy, 769-770.

Building Societies, 808-812.

Rural, 407, 411, 801-807.

State (see State Advances and State Aid).

Advertisements, Medical, 119.

Advertising by Radio, 390-394.

Aerated Water and Cordial Industry, 577.

Aerial Surveys, 374, **420**.

Aerial Work Operations, 374.

Aero Clubs, 378.

Aerodromes, 244, 379.

Afforestation, 501-508, 510, 521-524.

Bondholders, 812.

Companies, 510, 812.

Age Benefits, **176-180**, 195, 915.

Age Distribution, 46-47.

Ages—

Of Cancer Decedents, 91.

Of Infants Dying, 82-83, 102.

Of Injured Employees, 1002.

Of Inmates of Mental Hospitals, 142.

Of Maoris Dying, 99, 102.

Of Migrants, 27.

Of Mothers or Parents, 60, 61, 63, 64.

Of Offenders Probationed, 225.

Of Patients in Public Hospitals, 113.

Of Persons Dying, **77-79**, 99, 102.

Of Persons Marrying, 69-70.

Of Population, 46-47.

Of Prisoners, 230, 231.
Of Public-school Pupils, 150, 155, 157.
Of Tubercular Decedents, 89.

Aggregation of Incomes, 848.
Agricultural and Pastoral Production, 429–500, 1088.

Persons Engaged in, 979.
Value of, 429–436.
Volume of, 431, 436.

Agricultural Machinery, 308, **460–464**, 589.
Agricultural Produce—

Consumed Locally, 433, 635.
Exported, 279, 280, 290–293, 433.
Gross Farming Income, 429–433.
Price Index Numbers, 886–889.

Agricultural Workers Act, 931–933.
Agriculture, 429–479.

Department of, 455–456.
Research in, 455–456, 469, 479.

Aides-de-Camp, 1068.
Aids, Artificial, 194–195, 196.
Aids, Nursing, 128.
Air Force, **243–245**, 247, 250–251.

Expenditure on, 245, 701.
Casualties, 247, 251.

Air Mails, 371–377, **379–380**.
Air Training Corps, 244.
Air Transport and Aviation, 243–245, 250–251, **370–380**.
Aircraft, 245, 370–380.

Accidents, 94, 96.
Licensing and Control, 370–379.

Aitutaki Island, 2, 1013, 1015.
Alcoholic Liquors—

Brewed, 577.
Consumption of, 637.
Duty on, 318–321, 709, **711**.
Exports of, 279, 280.
Imports of, 296, 304, 313.
Sale of, 1046–1049.

Alexander Turnbull Library, 1114.
Aliens, Naturalization and Registration of, 31–34.
Aliens, Race, 52.
Alps 4–5.
Ambassadors, 1081, 1083.
Ambulance, St. John, 131.
Amortization of Debt, 135, 700, 703, **730–732**, **736–738**, 751.
Amputees, 199.
Amusement Tax, 709, 722, **724**, **1042**, 1055.
Angling, 531–533.
Animal Life, 14.
Annual Holidays Act, 922.
Annuities, 195, **206–211**, 820.
Anti-natal Services, 139.
Anthracite, 540.
Antimony Ore, 534, **537**, 548.
Antipodes Islands, 2, 35, 1012.
Anzac Day, 922.
Aparities or Apiculture, 409–500.
Apparel, Duty on, 318.
Apples, 440, **476–477**.

Consumption of, 636.
Exported, 279, 280, 290, 292, 293.
Fixation of Prices of, 869.
Marketing of, 440, 477, 869.

Apprentices, 255, **950–953**, 976.
Appropriations, Expenditure under, 700–701.
Arbitration (see Industrial Conciliation and Arbitration).
Atea—

Of Land Holdings, 395, 396.
Of New Zealand, 1–3, 43, 395.
Of Properties Transferred, 400, 402.
Of Provincial Districts, 35.
Top-dressed, 475.
Under Crops, 464–479, 1088.
Under Cultivation, 396, 466–479.

Armed Forces—

Awards for Gallantry, etc., 248, 1075.
Casualties in, 247–248.
Demobilization of, 260.
Korea, Serving in, 237, 239, 242, **246**, 248.
Overseas at Census Dates, 20, 45.
Pay and Allowances, 657, 664, 668.
Strengths of, 239, 242, 244, **246–247**, 968.

Army, **240–242**, 245, 247–250.

Expenditure on, 242, 701.

Arrivals (see Migration).
Arson, 833.
Articles on Special Subjects in Previous Issues, 1113–1114.
Artificial Aids, 194–195, 196.
Artificial Limbs, 195.
Art-unions, 1049–1050.

Asbestos, 534, **538**, 546.
Assessable Income, 718, 842–863.
Assessment of—

Income-tax, 712–718, 842–863.
Land Tax, 715–716.
Land Values, 424–425.

Assets—

Of Bankrupts, 1038, 1104.
Of Banks, 763, 766, 774–775, 780, 1100.
Of Building Societies, 812.
Of Electric-power Undertakings, 623.
Of Factory Industries, 567–568.
Of Fire-insurance Companies, 829.
Of Friendly Societies, 212.
Of Life-insurance Companies, 823.
Of Local Authorities, 753–754.

Assurance, Life, 817–824, 837–838.
Atafu Island, 2, 3, **1030–1032**.
Atiu Island, 2, 1013, 1015.
Auckland—

Broadcasting Stations, 391–393.
Building Values, 605.
Climate, 11, 13.
Dwellings, New State, 607.
Population, 37, 38, 40.
Retail Prices, 882–883.
Sales-tax Receipts, 726.
Shipping, 291, 314, 328, 331–335.
Tramways, etc., 348–351.
Trustee Savings-bank, 779–780.

Auckland Islands, 2, 35, 1012.
Audit of Expenditure, 696.

Australia—

Birth and Natural Increase Rates, 58.
Consumption of Foodstuffs, 635, 638.
Debt Domiciled in, 733, 757, 1097.
New Zealand Representatives in, 1081.
Note Circulation, Index of, 775.
Population, Annual Average Increase, 23.
Prices, 873.
Reciprocal Trade with, 323–324.
Representatives in New Zealand, 1082.
Social Security Reciprocity with, 174, 175, 176, 189.

Automobiles (see Motor-vehicles).
Aviation and Air Transport, 243–245, 250–251, **370–380**.
Awards for Gallantry, etc., 248, 1075, 1076.

B

Bachelors Marrying, 68–70.
Baches, 595.
Bacon and Ham, Consumption of, 636.
Bacon and Ham Curing, 574.
Balance of Payments, 678–694.

Capital Account, 682, 687–691.
Current Account, 681, 684–687.
Merchandise Transactions, 682–684.
Survey of Companies with Overseas Affiliations, 691–694.

Balance of Trade, 264–267.
Bananas, 312, 315, 441, 636, 870, 1017, 1019, 1022, 1028.
Bank of New Zealand, 730, 738, **765**.
Banking and Currency, 761–790, 1100, 1101.
Bank-notes, 761–766, **771–773**, 782, 786–787, 1100.

Denominations of, 773, 787.
In Circulation, 771–773, 1100.

Bankruptcy, 941, 1037–1041, **1104**.
Banks, Overseas Assets of, 766, **774–775**.
Banks, Savings—

Post Office, **777–778**, 784, 1101.
School, 778–779.
Trustee, 779–780.

Barley, 466, 467, 468, **470**, 479.

Exports of, 279, 280.

Beds, Hospital, 137, 138.
Beef—

Chilled, 449, 486, **494**.
Consumption of, 494, 635, 636.
Export of, 292, 293, 494, 495.
Slaughterings, 493, 573.

Beer—

Consumption of, 637.
Duty on, **318–321**, 699, 709, 711.
Production of, 577.

Bees, 499–500.
Benefits, Social Security, 117, 122, 144, **176–197**, 653, 661, 664, 665, 706.
Benevolent Institutions, 139–140.
Bentonite, 534, **545**, 546, 548.
Beverages, Production of, 555–572, 577.
Bibliography—

General, 1115–1120.

New Zealand Flora, 14.

Bills, Treasury, 728, 733.

Birthplaces, 51.

Births, 55-66, 104, 1085.

Excess of, over Deaths, 34, 57, **104**.

In Cook Islands, 1015.

In Niue Island, 1020.

In Western Samoa, 1025.

Of Maoris, 97-98, 104.

Biscuit Industry, 576.

Bitumen-surfaced Roads, 354.

Bituminous Coal, 538-540.

Blind, Benefits for and Education of, 153, 183, 189, 255.

Board of School-children, 162.

Board of Trade, 272.

Bobby Calves, 494.

Boilers, Inspection of, 1009-1010.

Bonds, National Savings, 727, **780-781**.

Boroughs, 739-760.

Area of, 40-41.

Bridges in, 354.

Capital and Unimproved Values, 427.

Debts, 756, 1099.

Housing, 594, 605, 607, 748.

Mileage of Streets, 354.

Population, 40-42.

Borstal Institutions, 219, 221, 227, 228, 332.

Boundaries of New Zealand, 1-3.

Bounty Islands, 2, 35, 1012.

Bread, Fixed Prices for, 865.

Breeding-bulls, 486.

Breeding-ewes, 480-483.

Breeding-sows, 480, 492.

Breweries, 577.

Brick Production, 585.

Brides and Grooms, 68-70.

Bridges, 340, **354**.

Bridle-tracks, 354.

Brigades, Fire, 836.

British Commonwealth Pacific Airlines, **376**, 730, 738.

British Countries, Representatives in New Zealand, 1082-1083.

British Nationality, 31.

British Phosphates Commission, 2, 738, 1034.

British Postal Orders, 383.

British Preference, 321-325.

British Sovereignty, 3.

British Trade Representatives, 1083.

Broadcasting, 390-394.

For Schools, 165, 393.

Time Signals, 393, **1051**.

Bronze Coinage, 785-786.

Building, 590-613.

By Owner-builders, 612-613.

By Regular Builders, 609-611.

Building and Construction Industry Sector Account 676-677.

Building, Construction, and Housing, **590-613**, 801-807, 910.

Persons Engaged in, 966-968, 971.

Building Costs, 591.

Building Materials, 297, **591-592**.

Wholesale Price Indices, 887.

Building Permits, 590, 594, **601-608**.

Building Societies, 808-812.

Deposits, 781, 784, 810, **812**.

Bulk Purchase Agreement, 275, **441-442**, 444-445, 449-450.

Bullion, Exports of, 278, 279, 292, 293, 535, 1092.

Bullion Production, 7, 534, **535**.

Bureau of Industry, 1044.

Burials, 75, 119-120.

Bursaries—

Agricultural, 168, 169.

Dental, 123, 168.

Ex-servicemen's, 166, 168, **257**.

Medical, 117, 168.

Physical Education, 164.

Post-primary Teachers', 164.

Secondary Schools, 161.

Servicemen's Dependants, 257.

Technical Schools, 161.

University, 166-169.

Bush, 14, 397, **801-806**, **817-821**.

Bushel Units, Weights of, 466.

Business, Census of, 639-651.

Business Failures, 941, **1037-1041**, **1104**.

Business Loans, 258-260, 804-806.

Butter (see Dairy Produce).

Butterfat Production, 490-492, 574.

Butterfat Yields, 490.

C

Cabinet, 15.

Cable Tramways, 352.

Cables, Ocean, 386.

Cadets—

Army, 242.

Navy, 238.

Calf-skins Exported, 278, 280, 288, 292, 293, 1094.

Calves Slaughtered, 493.

Campbell Island, 2, 19, 35, 1012.

Camps, Health, 121, 130.

Canada—

Consumption of Foodstuffs, 635, 638.

Exchange Rate with, 789.

New Zealand Representatives in, 1081.

Note Circulation, Index of, 773.

Population, Annual Average Increase, 23.

Prices, 873.

Reciprocal Trade with, 324.

Representatives in New Zealand, 1082.

Canadian Pacific Air Lines, 377.

Cancer, 88, 89-91, 100, 106, 107, 114, 143.

Candle and Soap Industry, 583.

Canned and Preserved Meats, Production of, 573.

Canned Fish, 529.

Canned Fruits, 577.

Consumption of, 636.

Canned Meat Exported, 278, 279, 286, 292, 293, 334.

Canned Vegetables, 279, 280, 577.

Consumption of, 636.

Canterbury Agricultural College, 148, 149, 166, 169, 256.

Capital—

Expenditure of Government, 703.

Invested in Electric-power Undertakings, 618-623.

Invested in Factories, 567-568.

Invested in Railways, 340, 1103.

Invested in Telegraph Construction, 383.

Invested in Telephone Construction, 385.

Invested in Tramways, etc., 350, 353.

Of Banks, 761, 765.

Of Joint-stock Companies, 812-816.

Capital Formation, 654-659.

Capital Issues Control, 770.

Capital Transfers, 775, 776.

Capital Value of Land, 423-428.

Rating on, 745-747.

Capitation Scheme, Social Security, 190.

Cargo Carried by Air Transport, 372-377.

Cargo Handled at Ports, 327-335.

Car-miles Run by Trams, etc., 348, 349, 353.

Carpets and Rugs, Imports of, 306.

Carnegie Corporation, 171.

Carton and Paper Bag Industry, 581.

Casein Exported, 278, 279, 292, 293.

Casein Produced, 491, 574.

Cash Order Trading, 645-646.

Cassiterite, 537.

Casualties in War, 246-251.

Casualties, Shipping, 338.

Catchment Boards, 509, **739-760**.

Cattle, 480, **486-489**, 1089.

Cattle Slaughtered, 493, 494.

Cattle-hides Exported, 278, 280, 288, 292, 293, 1094.

Causes of—

Accidents, 1001.

Deaths, **82-97**, **100-101**, **106-107**, 143.

Fires, 833.

Industrial Disputes, 993-994, 996.

Infant Mortality, 84-86.

Insanity, 141.

Maori Deaths, 100-101.

Still-birth, 86.

Cement, 345, 546, 548.

Exports of, 278, 279.

Imports of, 306, 314.

'Industry, 585.

Cemeteries, 119-120.

Census, 17, 19, 20, 34-37, 43-44, **45-54**, 63, **863-864**, 913.

Employment Statistics, 965-967.

Of Agriculture, 396, 458-460, 465, 482, 488.

Of Distribution, 639-651.

Of Dwellings, 45, **598-598**.

Of Poultry, 45, **498**.

Of Religions, 49-50.

Unemployment Statistics, 968-969.

Central Reserve Bank (see Reserve Bank).

Cereals, 464-471, 1088.

Consumption of, 638.

Certificates—

Dentists' Practising, 127.

Engine-drivers', 1010.

Land Titles, 400.

Marine Officers', 337, 930.

Medical Practitioners', 127.

Mine Officials', 549, 927.
Naturalization, 31–33.
Occupational Therapists', 129.
Opticians', 129.
Physiotherapists', 129.
Teachers', 152.

Certification of Seed, 472, **479**.
Certification of Trades, 152, 953.
Charitable Aid, 135–136, 139–140.
Charitable Institutions, 132–140.
Chatham Islands, 2, 387, **1032**, 1120.

Schools, 149, 162.

Cheese (see Dairy-produce).
Chemicals and Chemical Products Industry, 555–572, 583–584.
Chemists', Registration of, 130.
Child Hygiene, 120–121.
Child Migration, 29.
Child Welfare, **120–121**, 130, 153, **169–171**, **223**.
Childbirth, Accidents, etc., of, 84, **86–87**, 88, **92–93**, 101, 106, 107, 109, 114, 118.
Children, 53.

Adopted, 65.
Affected by Divorce Proceedings, 74.
Allowances in Respect of, 174–209.
Backward, 120, 148, 169.
Born, Numbers and Rates, 55–58, 98, 104.
Born, Sexes of, **58–60**, 66, **98**.
Crippled, 131, 161.
Dental Treatment of, 122.
Legitimized, 64.
Medical Inspection of, 120.
Offences by, 169–170, 223–224.
Under One, Deaths of, 77, 78, **81–85**, **101–103**, **108**, **1085**.

Children's Courts, 169–170, 223–224.
Children's Homes, 140, 170.
Chilled Beef, 449, 486, **494**.
Chinese in New Zealand, 52, 1025, 1034.
Christchurch—

Broadcasting Stations, 391–393.
Building Values, 605.
Climate, 11, 13.
Dwellings, New State, 607.
Population, 37, 38, 41.
Retail Prices, 882–883.
Sales-tax Receipts, 726.
Tramways, etc., 348–351.

Churches, **49–50**, 71.
Cigarettes and Tobacco, 318, 319, 321, **478**.

Imports of, 296, 297, 304, 313.
Production of, 555–572, 578.

Cinematograph Film-hire Tax, 699, 709, **724**.
Cinematograph Theatres, 1042–1043.
Cinnabar, 537.
Cities, Population of, 38, 40, 41.
Citizenship, 31.
Citrus Fruits, 312, 315, **476–478**, 636, 870, 1017, 1019.
Civil Aviation, 370–380.
Civil Law Cases, 214, 216.
Civil List, 15, 700.
Claims, Insurance, 817–841.
Clays, 534, 546.
Clearings, Bank, 770.
Clergy of Each Church and Marriages by, 71.
Climate, 4–5, **11–13**, 1012, 1020, 1023.
Clinics—

Ante-natal, 139.
School Dental, 122.
Venereal Disease, 111.

Clocks, Public, 1052.
Closing-hours of Shops, 925.
Clothing and Footwear, Retail Prices of, 871–884.
Clothing Industry, 578.
Clothing, Subsidy on, 867.
Clover-seed (see Grass-seed).
Club Charters, 1046.
Clubs, Aero, 378.
Clubs, Agricultural, 163.
Clubs, Rifle, 242.
Clubs, Working-men's, 211.
Coal—

Analysis of, 549.
Carried on Railways, 345, 346.
Consumption of, 542, 562, 629.
Exports of, 278, 279, 292, 293, 535.
Production of, 534, **538–544**.
Public Ownership of, 534.
Resources, 538–540.
Subsidy on, 662, 867.
Utilization of, 542, 562, 629.

Coal Miners' Relief Fund, 550.
Coal Mines Act, 534, **928–929**.
Coal-mining, **538–544**, 909, 966, 992, 993.
Coastal Shipping, 330, 333–335.
Coastal Vessels Registered, 336.
Coast-line, 4.
Coin Held by Banks, 763, 766.
Coin Imported and Exported, 274, 1090.
Coin in Circulation, 782.

Coinage and Currency, 785–787.
Colleges—

Agricultural, 148, 149, 166, **169**, 256, 452.
Military, 241.
Naval, 238.
Pharmacy, 130.
Teachers' Training, 148, 152, 153, **163–164**.
University, 148, 149, 152, 160, **165–169**.

Collieries, 538–544.

State, 542–544.

Commerce and Finance, Persons Engaged in, 966, 967.
Commerce, Overseas, 261–335, 1090–1094.
Commercial Failures, 941, **1037–1041**, **1104**.
Commodities—

Consumption of, 632–638.
Rationing of, 638.
Commodity Sales, Retail, 650.
Commodity Sales, Wholesale, 651.

Community Centres, 131, 172.
Companies—

Bank Advances to, 768.

In Manufacturing Industries, 568.
In Manufacturing Industries, 568.

Co-operative Dairy, 490.

In Manufacturing Industries, 568.
In Manufacturing Industries, 568.

Deposits with, 781, 784.

In Manufacturing Industries, 568.
In Manufacturing Industries, 568.

Income of, 657–669, 844, **857–863**.

In Manufacturing Industries, 568.
In Manufacturing Industries, 568.

Joint-stock, 644, **812–816**.

In Manufacturing Industries, 568.
In Manufacturing Industries, 568.

Overseas, 813–814, 829, 831.

In Manufacturing Industries, 568.

Private, 644, **813–816**.

In Manufacturing Industries, 568.

Registered, 812–816.
Share Price Indices, 891–894.
Taxation of, 175, **716–717**, 844, **857–859**.

Comparisons with Other Countries—

Active Note Circulation, 773.
Birth and Natural Increase Rates, 58.

Consumption of Foodstuffs, 637–638.

Dairy Produce Consumption, 635.
Death-rates, 77, 105.
Expectation of Life, 80.
External Trade per Head, 263.
Health Insurance, 915.
Infant-mortality Rates, **81–82**, 108.
Marriage-rates, 67.
Population, Annual Average Increase, 23.
Prices, 873.
Telephones to Population, 384.
Unemployment Insurance, 915.

Compassionate Allowances, 197.
Compensation, Workers', 953–958, 997–1001, 1053.
Compulsory Insurance, 840, 955.
Compulsory Unionism, 946, 984.
Conciliation Councils, 915, **945–947**.
Concrete Products Industry, 586.
Confectionery Industry, 576.
Confinement, Deaths in, 84, 88, **92–93**, 101, 107, 114.
Confinements, 59, 61, 64.
Conjugal Condition of Persons Marrying, 68.
Conjugal Condition of Population, 48–49.
Conjugal Rights, Restitution of, 72–74.
Conservation of Forests, 501.
Conservation of Soil, 509, 702, 703, 739.
Consolidated Fund, 117, 175, 663, **698–702**, **708–711**, **1096**.
Constitution, 15–18.

Of Local Districts, 740.

Construction, Building, and Housing, **590–613**, 801–807, 910.
Consults, 1081–1083.
Consumers' Goods, Imports of, 297–299.
Consumers' Goods, Wholesale Prices of, 887.
Consumers' Price Index, 873–885.
Consumption of—

Coal, 542, 562, 629.
Commodities, 632–638.
Electricity, 349, 614, **624–625**.

Farm Produce, **432-434**, 470, 494, **496**, **635-638**.
Motor-spirits, 361-362.
Wool, 485, 578.

Contact Lenses, 194.
Contagious Diseases, 84, 85, 88, 100, 106, 107, **109-114**, **118**.
Contractors' Liens, 940.
Contributory Negligence, 954.
Control of—

Bank Advances, 769-770.
Capital Issues, 770.
Exchange, 267-269, 775, 787.
Exports, **272**, **437**, 545.
Imports, **272-274**, 319.
Poultry, 498.
Prices, 865-866.
Rovers, 702, **739**.

Convictions—

For Drunkenness, 218, 219, **220**, 222.
For Traffic Offences, 218, **219-220**.
Of Juveniles, 223-224.
Of Maoris, 222-223.
Of Women, 222.

Convictions in Magistrates' Courts, **216-220**, 222, 1087.
Convictions in Supreme Court, **220-221**, 223, 1087.
Cook Islands, 1-3, 30, 206, **1012-1019**.

Bibliography, 1120.
Exports to, 294.
Imports from, 315.
Population, 19, **1015**.
Public Finance, 1019.
Radio Stations, 387, 1018.
Trade, 1018-1019.

Co-operative Credit Associations, 807.
Co-operative Dairy Companies, 490.
Copper Ore, 534, **536-537**, 548.
Cordial and Aerated-water Industry, 577.
Corn Crops, 466-468.
Correspondence Classes, 149, 159, 163.
Cost of Living, 865-885.

Bonuses, 936.

Costs—

Factory, 552-589, 1095.
Railway Construction, **340**, **703**, **1130**.
Roading, **356-360**, 703.

Council, Defence, 235.
Council, Dental, 127-128.
Council, Executive, 15.

Members of, 1070.

Council, Fire Service, 739, 750.
Council for Educational Research, 171.
Council for Scientific and Industrial Research, 456.
Council, Legislative, Abolition of, 15.
Council, Medical, 127.
Council, Medical Research, 127.
Council of Adult Education, 171.
Council of Legal Education, 166.
Council, Privy, Meeting of, 1069.
Counties, 739-760.

Area of, 39-40.
Bridges in, 354.
Capital and Unimproved Values, 427.
Debt, 756, 1099.
Employees of, 760.
Housing, 606.
Mileage of Roads, 354.
Population, 38-40.

Country Lands, Mortgages on, **792**, **795-796**, 798, 804.
Courts—

Appeal, 214, 217, 222, 1074.
Arbitration, 215, 896-898, 915-952, 1074.
Bankruptcy, 1037.
Children's, 169-170, **223-224**.
Compensation, 215, 953-958, 1074.
Divorce, 72.
Judges of, 1074.
Land Sales, 402.
Land Valuation, 215, 402-404, **424**, 1074.
Magistrates', 215, 216, **217-220**, 222-223, 1087.
Maori Appellate, 414.
Maori Land, 414.
Of Review, 793.
Supreme, 72, 73, 215, **216-217**, **220-222**, 1087.

Cover, Fire, 830

Cow-testing, 452, 455.
Cranes, Inspection of, 1009-1010.
Crayfish, 527, 529, **530**.
Cream, Consumption of, 635.
Cream-separators on Farms, 461.
Credit, Letters of, 778.
Credit, Rural Intermediate, 806-807.
Creditors' Petitions, 1037, 1038.
Crematoria, 120.
Crews of Overseas Vessels, 26, 27.
Crime, Law and, 214-234, 1087.

Criminals, Habitual, 221, 228, 229, 232.
Crippled Children, 131, 161.
Crops, 396, **464-479**, 1088.
Crown Lands, 397, **406-412**, 704.

Rates Paid to Local Authorities, 750.

Crown Tenants, 408-410.

Advances to, 407.

Cultivation, Area in, 396, 467-479.
Cupro-nickel Coinage, 785.
Currency and Banking, 761-790, 1100, 1101.
Customary Land, 413.
Customs, Representative Overseas, 1081.
Customs Tariff and Revenue, 315-326.
Customs Taxation, 315-326, 661, 699, 709, **711**.

D

Dairy Cows, 461, 462, 480, **486-489**, **1089**.
Dairy Farms, 458, 459.
Dairy Industry, 429-442, **444-449**, 460-462, **486-492**, **574**, 768, 909, 931-933.
Dairy Industry Stabilization Account, 452.
Dairy Produce, 345, 346, **444-449**, **489-492**.

Bulk-purchases of, 275, 441-442, **444-445**.
Consumption of, 433, 635.
Export of, **276-279**, **286-287**, **292-293**, 334, 433, 437-438, **444-445**, **1092**.
Export Prices Indices, 887-889.
Factories, 489-491, 574.
Fixation of Prices, 444-449, 869.
Grading of, 456, 489.
Gross Farming Income, 429-431.
Marketing of, 437-441, **444-447**.
Prices Paid for, 444-449.
Production of, 489-491, 574.
Retail Prices Indices, 874.
Subsidy on, 867.

Dairy Products Marketing Commission, **439**, 444, 446.

Dairying-machinery, 280, **460-462**.
Damage (Earthquake and War) Insurance, 707, **840-841**.
Daylight Saving, 1051.
Death Duties, 661, 699, 709, **718-721**.
Death Penalty, Abolished and Restored, 222.
Deaths, **57**, **75-97**, **99-103**, **105-108**, 114, 347, 368-369, 540, 547, **1088**.

Accidental (see Accidents).
Distribution Over Year, 77.
Due to Earthquakes, 11.
Foetal, 66.
From External Causes, 93-95.
From Puerperal Causes, 87, 88, 92-93, 101, 106, 107, 114.
In Cook Islands, 1015.
In Hospitals, 114, 137.
In Mental Hospitals, 142-144.
In Niue Island, 1020.
In Western Samoa, 1025.
Inquests on, 225-226.

Neo-natal, **77**, **82-87**, **102-103**.

Of Friendly Society Members, 212.
Of Infants, **77-86**, 99, **101-103**, **108**, **1085**.
Of Insured Persons, 819-822.
Of Maoris, **97**, **99-103**, **105**, 226.
Of Servicemen Overseas, **75**, **247-251**.
Violent, **88**, **93-96**, 101, 106, 107, 226, **368-369**, 540, 547.

Debentures, 727, 754-757, 780, 1097.

Debenture-tax, 717.
Debits, Bank, 770-771.
Debt, Conversion of, 731-732, 758.
Debt of Local Government, 136, 738, **754-759**, **1098**, **1099**.
Debt, Public, 700, **727-738**, **1097**.
Debtors' Petitions, 1037, 1038.
Decrees in Divorce, 72-74.
Deeds Registration, **399**, 791.
Defaulters, Military, 18, 230.
Defence, 235-251.

Council, 235.
Expenditure on, 239, 242, 245, 661, **701**.
Fund, 707.
Science, 235-236.

Deferred-maintenance Allowance, 716.
Degrees, University, 127, 166.
Demobilization of Servicemen, 260.
Demography, 19-54, 1084, 1085.
Density of Population, 43.
Dental Benefits (Social Security), 122, **194**, 196.
Dental Services, Hygiene, etc., **121-123**, **127-128**, **194**, 196.
Department of Agriculture, 455-456.
Department of Health, 116-117.
Department of Scientific and Industrial Research, 456-458.
Departments, Government, 1035, 1070, **1077-1078**.
Departures (see Migration).
Dependants of Soldiers, Pensions for, 197-205.
Dependent Children, 53.

Care of, 153, **169-171**.

Deposits—

By Insurance Companies, 817, **828**.
Interest rates on, 783-785.
With Building Societies, 781, 784, **812**.

With Local Authorities, 785.
With Reserve Bank, 763.
With Savings-banks, 777-782, 1101.
With Trading Banks, 766-768, 782, 783, **1100**.
With Trading Companies, 781, 784.

Depreciation Allowances, 567, 653, **659**, 713, 715.
Depreciation of New Zealand Currency, 788.
Desertion, 72, 74, 180.
Desertion, Ship, 218, 931.
Designs, Registration of, 1044.
Detention, Reformative, 170, 221, 228, 229.
Diagnostic, Laboratory, Services, 194.
Diagnostic, X-ray, Services, 192, 196.
Diagrams and Graphs—

Banking, 767, 772, 775.
Building Activity, 694.
Butterfat Production, 492.
Cows in Milk, 492.
Dairy Production, 492.
Electricity Consumption, 625.
Export-prices Indices, 890.
Exports, 267.
Factory Production, 566.
Imports, 267.
Infant Death Rates, 83.
Life Assurance, 817, 824.
Mortgages, 800.
Motor-spirits Consumption, 362.
Motor-vehicles Licensed, 362.
Note Circulation, 772.
Overseas Assets of Banks, 775.
Pigs, 492.
Price Indices, 875, 890, 892.
Private Income, 665, 667.
Production, 469, 492, 566.
Rates of Interest on Mortgages, 800.
Retail Trading, 642, 643.
Retail-prices Indices, 875.
School Population, 151.
Share-prices Indices, 892.
Taxation Revenue, 711.
Trading Banks, 767, 775.
Union Membership, 985.
Vital Statistics, 58, 90.
Wheat Production, 469.
Wholesale-prices Indices, 890.

Dietitians, 129.
Diphtheria, 84, 88, 106, 107, 109, **110**, 114, 118, **121**.
Diplomas, 127, 152, 167.
Diplomatic Representatives, 1081-1083.
Disabilities from Industrial Accidents, 997-1007.
Disabled Servicemen, 197-205, 255.
Discharged Soldiers Settlement, **251-260**, 402-403, 411-412, 806.
Discount Rates, 783.
Disease, Prevention of, 121.
Diseases, Notifications of, 109-112, 118.
Diseases, Principal, Deaths from, 87-93, 100-101, 106-107, 114.
Diseases Treated in Hospitals, 113-114.
Diseases, Tropical, 1015, 1021, 1025, 1031.
Disengaged Persons, 978.
Displaced Persons, 29.
Disputes, Industrial, 945-949, 988-996.
Dissolution of Parliament, Dates of, 1072.
Distribution, Census of, 639-651.
Distribution of Population, 34-42.
By Ages, 46-47.
By Industries, 965-968.
By Occupational Status, 967.

Distribution of Private Income, 664-669.
District High Schools, 149, **158-160**, 165, **1086**.
Districts—

Electoral, 17, 1073.
Income-tax, 854.
Land, 397, 406, 458, 459.
List of Local, 739.
Local, 739-760.
Roads Council, 355.

Dividends, Bankruptcy, 1039, 1104.
Dividends, Totalizator, 723.
Divorce, 72-74.
Divorced Persons, Numbers of, 48.
Divorced Persons Remarrying, 68, 70.
Domains, Public, 397-398.
Domestic Assistance, 189, **193-194**, 196.
Domicile of Debt, 733, 757, 1097.
Dominion Laboratory, 548.
Drainage Districts, 739-760.
Dredging, Gold, 535.
Drivers' Licences, 356, 360, 750.
Drowning Accidents, 93, 96.
Drugs, **118-119, 191**.
Drunkenness, 72, 74, 218, 219, **220**, 222.
Ducks, 498.
Dunedin—

Broadcasting Stations, 391-393.
Building Values, 605.
Climate, 11, 13.
Dwellings, New State, 607.
Population, 37, 38, 41.
Retail Prices, 882-883.
Sales-tax Receipts, 726.
Shipping, 291, 314, 328, 331-335.

Tramways, etc., 348-352.
Trustee Savings-bank, 779-780.

Duties—

Customs and Excise, **315-326**, 661, 699, 709, **711**.
Death, 661, 699, 709, **718-721**.
Export, 320.
Gift, 709, 719, **721**.
On Instruments, 709, 722.
On Lottery Tickets, 722, 1049.
On Overseas Passenger-tickets, 722.
Stamp, 699, 709, **721-722**.

Dwellings, 590-613.

Advances for, 258, 260, 748, **801-812**.
Census Enumerations, 595-598.
Erected, 598-601, 608.
Fire Losses on, 835.
In Course of Erection, 595, 599, 606-607, 612.
Maori, 260, **600-601**, 609, 960.
Rents, 874-884, 959-964.
Sale of State, 807.
State, 591, **598-600**, **606-607**, 960.

Temure of, 596.
Unimhabited, 595.

E

Earthquake Insurance, 707, 805, **840-841**.
Earthquakes, 8-11.
Economic Pensions, 200-201.
Economic Stabilization, 865-867, 897, 918-919, **941-945**.
Education, **145-173**, 1016, 1021, 1026, 1032, **1086**.

Boards, 145-146.
Buildings, Debt on, 730.
Endowments, 146, 153, 407.
Expenditure on, **153**, 162, 661, 701.
Of Ex-Servicemen, **257**, 260.
Physical, 131, 164.

Educational Association, Workers' 172.
Educational Research, 171.
Effective Weekly Wage-rates, 303-304.
Eggs, 438, 498, 637, 638, 870.

Retail Prices of, 871.

Elections, General, 15-17, 1045.
Electoral Districts, 17, 1073.
Electoral Qualifications, 17, 741-742.
Electors, Registration of, 17, 741.
Electric—

Power Boards, 618, 620, 739-760, 1099.
Power, Generation and Supply, 614-626.
Power in Factories, 551, 561, 617.
Power on Farms, 460, 461.
Railways, 339-341.

Electric Supply Account, 703.
Electric Tramways and Associated Transport, 348-353.
Electrical Machinery and Appliances Industry, 555-572, 587.
Electricity, Consumption of, 349, 614, **624-625**.
Emergency Benefits, 176, **188**, 195.
Emergency Reserve Corps, 247.
Pensions for, 195, **202**, 204.
Emigration, 26-27.
Employees—

Cinematograph-theatres, 1042, 1043.
Electric-supply, 619-622.
Factory, **552-558**, 560, 568, 573-589, **966-976**, 980, **1095**.
Farm, 979.
Fire Brigade, 836.
Hospital Boards, 760.
In Industry, 966-968, 971-972, 974-975.
Legislation Affecting, 914-964.
Local Government, 759-760, 974-975, 981.
Mining, 540, 541, 542, 544, 546, **547**.
Post and Telegraph, 389.
Public Service, 1079, 1080.
Public Works, 980-981.
Railway, 346, 975.
Retail Trading, 643, 644.
State Coal-mines, 544.
Tramways and Associated Transport, 352, 353.
Unions of, 945-949, 982-987.
Wholesale Trading, 648.

Employers, 967, 983-984, 987.
Employers' Liability Insurance, 824-826, 838-840, 953-958.
Employers' Unions, 983-984.
Employment and Unemployment, 958-959, **965-981**.
Employment Placement Scheme, 959, 970, **977-979**.
Employment Promotion, 958, **969-976**.
Taxation, 711, 725, 897.

Employment, Seasonal Fluctuations in, 979-980.
Employment Service, National, 959, **970-976**.
Employment, Subsidized, 969.
Employment, Survey of, 970-976.
Employment Vacancies, 973, 976-978.
Endowment Land, 408-411.
Endowments, Education, 146, 153, 407.
Engine-drivers' Certificates, 1010.

Engines—

Employed in Factories, 561.
Employed on Farms, 460, 461.
Inspection of, 1009.
Railway, 340, 341.

Ensilage, 473.

Entertainments-tax, 709, 722, **724**, 1042, 1055.
Emission, 509, 739.
Estate Duty, 719–720.

Estates—

Administered by Public Trust Office, 1035–1037.
Assigned, 1037–1041.
Intestate, 1036.

Ewes, Breeding, 480–483.

Examinations—

Education Department, 152.
Electric-tram Drivers', 1010.
Engine-drivers', 1010.
Marine Officers', 337.
Medical, of School Children, 120.
Medical Practitioners', 127.
Mining, 549, 928–929.
Teachers', 152.
University, 127, 152, 166.

Excess-profits Tax, 713.

Exchange (Currency), 763, **787–790**.

Banks Indemnity (Exchange) Act, 728.
Control of, 267–269, 775, 787.
Expenditure on, 727.
New Zealand - London, 787–788.
Rates of, 787–789.
Reserve, 763, 774.

Exchanges, Telephone, 383–385.

Excise Duties, **318–321**, 661, 676, 709, **711**.

Executive Council, 15.

Members of, 1070.

Exemptions from Taxation—

Income-tax, 712–718, 850–852.
Land-tax, 715–716.

Ex-nuptial Infants—

Births of, 63–64.
Legitimation of, 64.
Protection of, 171.

Expectation of Life, 80, 99.

Expeditionary Forces, 245–246, 248–250, 1107–1109.

Expenditure—

Air Force, 245, 701.
Army, 242, 701.
Audit of, 696.
Broadcasting, 393, 394.
Cinematograph Theatres, 1042, 1043.
Civil Aviation, 370.
Defence, 239, 242, 245, 661, 701.
Education, **153**, 162, 701.
Electric-power, 618–623, 625–626.
Forest Service, 510–511.
Government, 660–664, 695–708, 1096.
Health, **117**, 701.
Insurance Companies, 820, 822, 825, 831, 837–841.
Local Government, 135–136, 618, 620, 623, **663**, **751–752**, **1098**.
Mental Hospitals, 144.
National, 652–669.
Naval, 239.
Post and Telegraph, 383, 385, **388**.
Railway, 341–343, 705, 1103.
Rehabilitation, 258–260, 700.
Roads, 357, 359.
Tramways and Associated Transport, 350–353.
War, 707, 729, 730.

Export Control, **272**, **437**, 545.

Dairy-produce, 437, 489–490.
Honey, 500.
Kauri-gum, 545.
Meat, 437.

Export Duties, **320**, 1030.

Export Licences, 272.

Export Prices, 271, **444–451**, **887–889**, 895.

Exports, **262–294**, 323–325, 632–634, 672, **682–683**, **1090–1094**.

Classification of, 276–280.
Currency, Restrictions on, 786.
Dairy-produce, **276–279**, **286–287**, **292–293**, 334, 433, 437–438, 635, **1092**.
Destination of, 281–290.
Excess over Imports, 264–267.
Fish, 278, 279, 292, 293, 529.
Gold, 278, 279, 292, 293, 535, **1092**.
Meat, **276–280**, **285–286**, **292**, **293**, 334, 449–450, 493–495, 635, **1091**.
Of Ports, 291.
Receipts from, 775, 786.
Specific, 274, 1090.
Timber, 278, 279, 290, 292, 293, 515–516.
Valuation of, 261, 265, 275.
Value in Sterling, 262.

Values, Index Numbers, 271, 633.
Volume, Index Numbers, 270, 634.
Wool, **276–278**, **280**, **285**, **292**, **293**, 334, **1091**.

External Migration, 26–29, 1084.

External Trade, 261–335, 1090–1094.

F

Factories, **551–589**, 1095.

Accidents in, 997–1009.
Act, 124, 922–924.
Dairy, 489–491, 374.
Employees, **552–558**, 560, 568, 573–589, **966–976**, 980, **1095**.
Fire Losses on, 835.
Promotion of, 1044.
Registered, 552–558, 568, 573–589.

Factory Production, 434–436, 551–589, 1095.

Fair Rents Act, 961–964.
Fakaofo Island, 2, 3, **1030–1032**.
Fallow Land, 396, 467.
Family Benefits, 174, 176, **182–183**, 195, 718, 777.
Family Homes Act, Joint, 959.
Farm Employees, 979.
Farm Employees, Wage-rates, etc., 899–900, 904, 906, 908, **932–933**.
Farm Finance, Provision of, **258**, **259**, 408–411, **768**, **801–807**.
Farm Holdings, 395–396.

Classification of, 458–459.

Farm Implements, 308, **460–464**.

Manufacture of, 589.

Farm Industry Reserves, 452.

Farm Loans for Ex-servicemen, 258, 259.

Farm Machinery, 297, 308, **460–464**.

Accidents with, 96.

Farm Produce—

Consumption of, 433, 635–638.
Export of, **276–280**, **285–290**, **292–293**, 334, 432–433, 444, 449, 493–495, **1091–1094**.
Marketing of, 275, **437–451**.
Price Indices, 887–889, 895.

Farm Subsidies, 452.

Farm Training and Settlement of Discharged Servicemen, 255–256, 260, 402–403, 411–412.

Farmers—

Advice for, 455–456.
Financial Assistance to, 407, 411, 768, **801–807**.
Mutual Fire Insurance, 836.

Farming, 429–500.

Farming Income, Gross, 429–434.
Farming Industry Sector Account, 672–673.
Farming Lands, Mortgages on, 792, **795–796**, 798, 804.

Fathers—

Ages of, 60.

Duration of Marriage of, 62.

Fats Exported, 278, 279, 287–288, 292, 293, 451, 1091.

Fauna, 14.

Female Suffrage, 17, 1107.

Female Wage-rates, 558–560, **902–908**, **936**.

Fens, 14.

Fertilizer Industry, 583.

Fertilizer Used, 374.

Fertilizers, Subsidy on Imported, 452, 453.

Fertilizers, Subsidy on Transport of, **452**, **453**.

Fever, Scarlet, 88, 100, 106, 107, 109, 110, 114.

Field Crops, 464–479.

Film Library, National, 165.

Film Unit, National, 1114.

Film-hire Tax, 699, 709, **724**.

Finance and Investment, 791–816.

Finance, Farm, **258**, **259**, 408–411, **768**, **801–807**.

Finance, Government, 660–664, 695–738, 1096, 1097.

Finance of Local Authorities, 133–136, 620, **662–663**, **748–759**, **1098**, **1099**.

Hospital Boards, 133–136.

Fire Brigades, 836.

Fire Districts, 509, 739-0.

Fire Inquests, 226.

Fire Insurance, 828–836.

State, 840.

Fire Losses, 830–835, 840.

Fire-prevention in Forests, 504, 508–509.

Fires on Vessels, 338.

Fires, Seasonal Incidence of, 835.

First Births, 61–63.

Fish, 7, **526–533**.

Canned, 529.

Imports of, 303, 312.

Consumption of, 637.

Exported, 278, 279, 292, 293, 529.

Value of Production, 435, 527.

Fishing, Big-game, 531.

Fish-liver Oil, 529–530.

Fixed Deposits, 766, 783, 784.
Flats, 595, 596, 604, 610, 612.
Flax Lands, 397, 478.
Flax, Linen, 466, 467, 479, 702, 738.
Exports of, 279, 280, 292, 293.
Flax, Phormium (see Phormium).
Floating Debt, 728, 730.
Flogging Abolished, 222.
Flora, 14.
Flour—
Consumption of, 637.
Fixed Prices for, 865.
Production of, 575.
Fodder Crops, 466–468, 470, 473.
Foetal Deaths, 66.
Fog Signals, 337.
Food and Drugs, Sale of, 118–119.
Food Consumption, 632–638.
Food Poisoning, 109, 110, 111, 118.
Food Production, 555–577.
Food, Retail Prices of, 871–884.
Foodstuffs, Export Prices of, 887–889.
Foodstuffs, Wholesale Prices of, 886–887.
Footwear and Clothing, Retail Prices of, 871–884.
Footwear, Imports of, 305, 313.
Footwear Industry, 579, 909.
Foreign Vessels, 329.
Foreigners, Naturalization of, 31–33.
Forest Fire Prevention, 504, 508–509.
Forest Produce Exported, 278, 279, 290, 292, 293, 515–516.
Forest Trees, 14, 517–525.
Forestry, 501–525.
Industry Sector Account, 673.
Persons Engaged in, 966, 974.
Research, 516.
Value of Production, 435.
Forty-hour Week, 912, 923.
Fowls, 498.
Franchise, General Government, 17–18.
Franchise, Local Government, 18, 741–742.
Freehold, Crown Land Made, 411.
Freehold Land, 397.
Freezing-works, 573.
Freight—
Carried by Air-transport, 371–377.
Carried by Shipping, 327–335.
Carried by Trains, 343–346, 1103.
Subsidy, 452.
Train-mileage, 346.
Frequency Rates of Accidents, 999, 1006.
Friendly Societies, 211–213.
Frozen Meat Exported, 276–280, 285, 292, 293, 334, 449–451, 493–495, 1091.
Fruit—
Consumption of, 636.
Export of, 279, 280, 290, 292, 293.
Fixation of Prices of, 870.
Imports of, 303, 312, 315.
Industry, 396, 466, 467, 476–478.
Fruit and Vegetable Preserving Industry, 576–577.
Fuel and Light, Retail Prices of, 874–884.
Fuels and Lubricants, Imports of, 297, 298, 306.
Funds of Public Account, 695–708.
Funeral and Sick Funds, 212.
Furniture and Fittings Industry, 555–572, 580.
Furniture Loans, 258, 260, 806.
G
Gaming Act, 1049, 1065.
Gaols, Prisoners in, 228–231, 1087.
Gardens, Acreage in, 396, 466, 475.
Gardens (Commercial), Registration of, 476.
Gas District, 739–760.
Gas Generation and Supply, 627–631.
Geese, 498.
General Assembly, 15–17, 1073.
Generating Stations, 615–617.
Geographic Board, 421.
Geographical Features, 4–8.
Geology, 8, 548.
Geo-thermal Steam, 618, 1064.
Geysers, 4.
Gift Duty, 709, 719, 721.
Gilbert and Ellice Islands, 3.
Glaciers, 6.
Gold, Discovery of, 7, 1106.
Gold Exported, 278, 279, 292, 293, 535, 1092.
Duty on, 320.
Gold-mining and Production, 7, 534, 535.
Gold reserve, 763.
Gonorrhoea, 111, 114, 118.
Goods Carried on Railways, 344–346, 1103.
Goods-service Licences, 363–365.
Government Departments, 1035, 1070, 1077–1078.
Government Finance, 660–664, 695–738, 1096, 1097.
Government Housing, 891, 898–900, 606–607, 703, 730, 807, 960.
Government Insurance, 837–841.
Government Railways, 339–347, 1103.

Industrial Tribunal, 347, 934.
Superannuation Fund, 206, 347.
Government Representatives Overseas, 1081.
Government Roads, 358.
Government Service Tribunal Act, 934.
Government Superannuation Fund, 206–208.
Government, System of, 15–18.
Governments, Provincial, 145, 740.
Governor-General, 1068.
Powers, Duties, etc., 15.
Grading—
Of Dairy produce, 456, 489.
Of Public Servants, 1079.
Graduates, University, 166.
Grain Crops, 396, 466–471, 1088.
Grain Milling, 575, 909.
Granite, 546.
Grapes, 477.
Graphs (see Diagrams).
Grass Lands, 396, 397, 454, 467, 474.
Grass-seed, 465–467, 473–474.
Exports of, 279, 280, 290, 292, 293, 1093.
Gratuities, Ex-service men's, 778.
Gravel and Sand, 534, 546.
Greenstone, 545.
Groceries, Retail Prices of, 871, 874.
Gross Farming Income, 429–434.
Gross Indebtedness, 728–729, 1097.
Of Local Government, 738, 754–756, 1098.
Gross Reproduction Rate, 20.
Guaranteed Prices, 446–448.
Guidance, Vocational, 161, 969.
Gum, Kaori, 535, 545.
Exported, 278, 297, 292, 293, 535, 545.
H
Half-castes, 45, 52, 98.
Ham and Bacon, Consumption of, 636.
Ham and Bacon Curing, 574.
Harbour Boards, 739–760, 1099.
Harbour-ferry Services, 363–365.
Harbours (see also Ports), 4.
Hardwood Trees, 517–519.
Hardwoods Imported, 515, 516.
Harvests, 464–479, 1088.
Havasa Charter, 275.
Hay, 473.
Heads of Government Departments, 1077–1078.
Health Camps, 121, 130, 1057.
Health, Department of, 116–117.
Health Insurance, 174, 183–196, 915.
Health, Occupational, 124–125.
Health, Public, 115–144.
Hearing Aids, 194.
Heavy-traffic Fees, 356, 363, 750.
Herd Testing, 455.
Hides, Skins and Pelts Exported, 276, 278, 280, 288–289, 292, 293, 334, 1093, 1094.
High Commissioners, 1081–1083.
High Schools, 149, 158–160, 165, 1086.
Higher Education, 149, 165–169, 1086.
Highways, 358–359.
Taxation, 356, 360, 363, 699, 709, 712.
History of Labour Laws and Allied Legislation, 914–921.
History of New Zealand, 1105–1112.
Hoarding Prohibited, 865.
Hoes, Rotary, and Garden Tractors, 461.
Holdings (see Land Holdings).
Holidays, 922, 923, 926, 927, 930, 932.
Holland Ministry, 1069, 1071–1072.
Home-nursing Services, 193.
Homes, Benevolent, 139–140.
Homes, Children's, 139–140, 170.
Homicide, 88, 93, 101, 106, 107, 221, 226.
Honey, 499–500, 637.
Exported, 278, 279, 292, 293, 499.
Marketing of, 440–441, 500, 870.
Honours Conferred, 248, 1074–1076.
Hops, 396, 478, 577.
Exports of, 279, 280.
Horse-racing, 722–724.
Horses, 278, 279, 458, 459, 462, 480, 497, 1089.
Horticulture, 456, 458, 459, 475–476.
Hosiery and Other Knitting Mills, 578.
Hosiery, Imports of, 304, 313.
Hospital Benefits, 117, 176, 189–196.
Hospital Boards, 132–140, 191–195, 662, 738, 739.
Employees of, 760.
Employees Retiring allowances, 209.
Finances of, 133–136.
Levies on Local Authorities, 133–134, 136, 751, 752.
Hospital Districts, 132.

Hospitals, **113-114, 132-144**, 191-196, 595, 1015, 1021, 1025.

Accommodation of, 137, 138.
Maternity, 125, 127, **138-139**, 192.
Mental, 117, **140-144**, 191.
Private, **138**, 191, 192, 196.
Private Mental, 140, **143**.
Public, **113-114, 137**, 191, 192, 196.
St. Helens, 123, 138, 139, 192.
Staff of, 760.

Hostels, 140, 970.
Hot Springs-4, 1052.
Hotels, Fire Losses on, 835.
Hotels, Licensed, 1046-1048.
Hotels, etc., Numbers of, 595.
Hourly Wage-rates, 900-901.
Hours of Labour, 570-571, **911-913**, 923-925, 927, 930, 932.
House of Representatives, 15-17, 1073.

Broadcast of Proceedings of, 393.
Members of, 1073.

Household Durable Goods, Retail Prices of, 877-884.
House-rents, 874-884, 961-964.

Houses (see Dwellings).
Housing, **590-613**, 702, 703, 729, **748, 801-807, 959-964**.

Conference, 591-593.
Local Government, **748**, 752.
Of Ex-servicemen, 258-260.
Of Masons, 260, **600-601**, 609, 960.
State, 591, **598-600, 606-607**, 703, 730, 807, 960.
Survey, 748.
Transit, Committee, **740**, 749, 751, 753, 760.

Hydriads, 109, 110, **111**, 114, 118, **119**.
Hydro-electric Power, 6, 7, **614-626**.
Used for Industrial Purposes, 551, 561, 617-618.
Hydrogenation of Coal, 542.
Hygiene—

Child, 120-121.
Dental, 121-123.
Environmental, 118.
Industrial, 124-125.
Mental, 140.
Public, 117-120.
School, 120.
Social, 111, 118.

I

Ice-cream, Consumption of, 635.
Ice-cream Industry, 575.
Illegitimacy (see Ex-nuptial).
Immigration, **26-29**, 970, 1084.

Assisted, **28-29**.
Hostels, 970.
Restriction on, 30, 958.

Imperial Preference, 322.
Implements, Farm, 308, **460-464**.
Manufacture of, 589.

Import Control and Licences, **272-274**, 319, 1018.
Import Price Indices, **889-890**, 895.
Imported Commodities, Prices Indices, 887, 890, 895.
Importers, Bank Advances to, 768.
Imports, **261-274, 295-315**, 321-326, 632-634, **683-684, 1090**.

Classification of, 295-299.
Currency, Restrictions on, 786.
Excess of Exports over, 254-267.
Free and Dutiable, 315-326.
Of Ports, 314.
Payments on Account of, 776.

Purpose or Use of, 296-297.

Restrictions on, **272-274, 319**, 1018.
Specie, **274**, 785, **1090**.
Valuation of, 261, 295.
Value in Sterling, 262.
Value of, Index Numbers, 271, 633.
Volume of, Index Numbers, 270, 634.

Income—

Company, 657-669, 857-863.
Gross Farming, 429-434.
National, 652-669.
Of Individuals, 845-857.
Personal, 657, 658.
Private, 653-658, 664-669.
Returnable, 844, **847-848, 858-859**.

Income-tax, 661, 699, 709, **712-718, 842-864**, 1054.
Increase in Population, **19-20**, 34-37, 57, 104.
Indebtedness of Local Authorities, 136, 738, **754-759, 1098-1099**.
Indebtedness, State, 727-738, 1097.
Index Numbers—

Active Note Circulation, 773.

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.

Factory, Value of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Consumers' Price, 875-885.

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Deaths, Sex-ratio, 76.

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Electricity, Consumption of, 614.

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Export Prices, 887-889, 895.

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Factory Production—

Value, 436.
Volume, 436, **569-570**.
Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Farm Production, Value and Volume, 431, 436.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Gross Farming Income, 431.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Hours of Labour, 911, 912.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

House-rent, 874-884.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Import Prices, 889-890, 895.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Prices of Consumers' Goods, 887.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Prices of Imported Commodities, 887, **889-890**, 895.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Prices of Locally-produced Commodities, 887, 0, 895.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Private Income, 664, 668.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Production, 431, 436, 437.

Factory, Value of, 436.
Factory, Volume of, 436, 569-570.
Farm, Value and Volume of, 431, 436.

Retail Prices, **873-885**, 890, 895.

Share Prices, 891-895.
Value of Exports, 271, 633.
Value of Goods Available for Use, 633.
Value of Imports, 271, 633.
Value of Production, 431, 436, 437.
Value of Trade, 271.
Volume of Dairy Production, 491.
Volume of Exports, 270, 634.

Volume of Goods Available for Use, 634.
Volume of Imports, 270, 634.
Volume of Production, 431, **436**, **437**, 569–570.
Volume of Trade, 270.
Wage-rates, 896–904, 912.
Wholesale Prices, **885–887**, 890, 895.
Wool Prices, 443.

Indians in New Zealand, 52.
Indigenous Forests, 397, **802–806**, **517–521**.
Industrial Accidents, 953–958, 997–1009.
Industrial Associations, 987.
Industrial Conciliation and Arbitration, 896–898, **933–949**, 982–987, **994–995**.
Industrial Distribution of Population, 965–968.
Industrial Efficiency, 130, **1044**.
Industrial Hygiene, 124.
Industrial Relations Act, 949.
Industrial Share Prices, 891–894.
Industrial Unions, 945–949, 982–987.
Industries—

Bank Advances to, 768.
Classification of, 551.
Licensing of, 1044.
Manufacturing, **551–589**, 1044, **1095**.

Industry—

Bureau of, 1044.
Manufacturing, Sector Account, 675–676.
Organization of, 568–569, 1044.
Persons Engaged in, **552–558**, 560, 568, 573–589, **966–975**.
Sector Accounts, 669–677.
State Aid to, 804–806.

Infancy, Diseases of, **84–85**, **101–103**, 106, 107, 114.
Infant Mortality, 77–86, 108, 1085.

Maori, 101–103, 108.

Infantile Paralysis (Poliomyelitis), **84**, **88**, 100, 107, 109, **110–111**, 118.

Infectious Diseases—

Control of, in Schools, 121.
Deaths from, 88–89, 100, **106–107**, 114.
Hospital Cases, 114.
Notification of, 109–112, 118.

Injuries (see Accidents).

Inquests, 75, 101, **225–226**.
Insanity, 72–74, **140–144**.
Insolvency, 941, **1037–1041**, **1104**.
Inspection of Machinery, 1009–1010.
Instalment Sales, 645–646.
Instruments, Duty on, 709, 722.
Instruments, Registration of, 399.
Insurance, 567, **817–841**.

Accident, 544, **824–827**.
Earthquake, 707, 805, **840–841**.
State, 837–841.
War Damage, 707, **840–841**.

Interest—

Credited by Savings-banks, 778–781, 1101.
On Local Government Debt, 135, **663**, **757**, 758.
On Mortgages, 792, 797–800, 806, 807.
On Post and Telegraph Capital Liability, 388, 699.
On Public Debt, 653, 657, 662, 700, **726–726**.
On Railways Capital Liability, 341.
Payments Overseas, **738–736**, 757.
Payments to Consolidated Fund, 699.
Rates (see Rates of Interest).
Reduction of, 758, 783–785, 792.

Intermediate Credit, 806–807.

Intermediate Schools, 149, 156, **157**, 162, **164**.

International Air Services, 374–377.

International Investment Income, 775, 776.

International Payments, 776.

International Refugee Organization, 29.

International Trade Conference, 275.

Intoxicating Liquor—

Brewing of, 577.
Duty on, **318–321**, 709, 711.
Sale of, 1046–1049.

Invalids' Benefits, 176, **183–184**, 195.

Investment and Finance, 791–816.

Investment Certificates, 727.

Investment in New Zealand and Overseas, 691–694.

Investment Societies, 808–812.

Deposits, 781, 784, **810**, **812**.

Investments, Reserve Bank, 763.

Investments, State, 730, 734.

Invisible Imports and Exports, 775–776.

Iron Ores and Ironsands, 534, 536.

Irrigation and Water supply, 702, 703, 980.

Island Territories, 2, 19, **1011–1034**.

Islands—

Administered on Trust, 1–3, 19, 1023–1030, 1034.
Annexed, 1011–1023.
Outlying, 1, 1011.

Joinery Industry, 580.
Joint Family Homes Act, 959.
Joint-stock Companies, 812–816.

In Manufacturing Industries, 568.

Journal of Agriculture, 456, 474.

Journal, School, **165**, 1012.

Judiciary, Members of, 1074.

June Year Exports, 262, 292–293.

June Year Imports, 262.

Juries, 215.

Justice, **214–234**, 700, **1087**.

Justices of the Peace, 217.

Juvenile Offenders, 169–171, 223–224.

Juvenile W-rates, 904, 907–908, 912.

K

Kale, 466, 473.

Kauri-gum, 535, **545**.

Exported, 278, 279, 292, 293, 535, 545.

Kea, Destruction of, 452.

Kermadec Islands, 1–3, 19, 35, 1012.

Kindergarten Schools, 146, 149, **154**.

Knitting Mills and Hosiery Industry, 578.

L

Laboratory Diagnostic Services, 194, 196.

Laboratory, Dominion, 548.

Labour and Employment Department, 959, 965–980.

Labour Force, 965–975.

Labour, Hours of, 570–571, **911–913**, 923–925, 927, 930, 932.

Labour Laws and Allied Legislation, 914–964.

Labour Shares, 916.

Lakes, **7–8**, 615–616.

Lamb, Consumption of, 494, 635, 636.

Lamb Exported, **292**, **293**, 494, 495, 635.

Lambs, 480–483.

Slaughtered, 493, 573.

Land Act, 153, **406–412**.

Land Boards, 406, 414.

Land Development, 407–412, 416.

Land Districts, 397, 406, 458, 459.

Land Drainage Districts, 739–760.

Land for Ex-servicemen, 255–256, 402–403, 411–412.

Land Holdings, 395, 396.

Classification by Farm Types, 458–459.

Mortgages on, 791–800, 804.

Land, Occupation of, 395–397.

Land, Purchase of, 401–411, 415.

Land Sales, Control of, 401–404.

Land Settlement Account, 704.

Land Settlement, 395–416.

Land Surveys, 417–422.

Land Tax, 661, 699, 709, **712**, **715–716**.

Land Tenure and Settlement, 395–416.

Land Titles, Registration of, 399.

Land Transfer, 399–402.

Land, Valuation of, 422–428.

Lands Open for Selection, 407–408.

Law and Crime, 214–224, 1087.

Law, Mortgage, 791–792.

Laws Affecting Labour, 914–964.

Laws Enacted in 1953, 1052–1067.

Leases, Renewable, 406–412.

Leasehold-handholding, 397, 408–410.

Leather and leather Products Industry, 555–572, 582.

Legacy Duty, 7–721.

Legal Education, 166.

Legal Tender, 786.

Legations, 1081, 1083.

Legislation—

Labour and Allied, 914–964.

Passed in 1953, 1052–1067.

Legislative Council, Abolition of, 15.

Legitimation, 64.

Letter-boxes, 381.

Letters of Credit, 778.

Letters Posted, 380, 381, 1102.

Letter-telegrams, 384.

Levies by Fire Boards, 831.

Levies by Hospital Boards, 133–134, 136, 751, 752.

Levy—

Coal Production, 550, 928.

Electric Power, 618.

Totalizator, 722–723.

Wool, 320, 465.

Liabilities—

Of Bankrupts, 1039, 1041, 1104.

Of Banks, 763, 765, 774, 1100.

Of Building Societies, 812.

Of Electric-power Undertakings, 623.

Of Fire-insurance Companies, 829.

Of Friendly Societies, 212.

Of Life-insurance Companies, 823.

Of Local Authorities, 136, 783.

Of Reserve Bank, 763.

Library, Alexander Turnbull, 1114.

Library Services, 153, **172-173**.

Licences—

Aerodrome, 379.

Air Pilots' and Navigators', 378-379.

By Local Authorities, 750.

Companies', 722.

Drivers', 356, 360, 750.

Export, 272.

Fishing, 533.

Fishing Vessels, 526.

Flight Engineers', 379.

Import, **272-274**, 319.

Motor-vehicle, 360-362.

Plumbers', 130.

Publicans', 750, **1046**.

Radio, 394.

Raffle, 1049.

Ross Sea Whaling, 1033.

Sharebrokers', 722.

Transport, 363-365.

Licensing, 1045-1049, 1061-1062.

Authority, 363-365.

Control Commission, 1046-1048.

Poll, 1045.

Trusts, 1048.

Licensing of—

Commercial Air Services, 371.

Industries, 1044.

Lotteries, 1049.

Motor-vehicles, 360-362.

Private Hospitals, 138.

Sale of Alcoholic Liquor, 1046-1049.

Liens, Contractors', 940.

Life Assurance, 817-824, 837-838.

Death-rates, 823.

State, 837-838.

Life, Expectation of, 80, 99.

Lifts, Inspection of, 1009-1010.

Light and Fuel, Retail Prices of, 874-884.

Lighthouses, 337-338.

Lignite, 538-540.

Lime for Top-dressing, 475.

Lime, Subsidy on Transport of, 452, 453.

Limestone, 534, 546, 548.

Linens, 466, 467, **479**, 702, 738.

Exports of, 279, 280, 292, 293.

Linseed, 466-468, **472-473**.

Liquidations of Companies, 812.

Literature, New Zealand, 1115-1120.

Live-stock, 480-500, 1089.

Carried on Railways, 344, 345.

Slaughterings of, 493.

Loans—

Allocation of, 730.

By Building Societies, 808-812.

Conversion of, 731-732, 758.

Dates of Maturity of, 731-733, 759.

Domicile of, 733, 757, 1097.

Guaranteed, 729, 755.

National Development, **707**, 732.

Of Hospital Boards, 134, 136.

Of Local Government, 134, 136, **744-745**, **754-759**, **1098**, **1099**.

On Assurance Policies, 823, 838.

Raised for War Purposes, 729, 730.

Redemption of, 700, 703, 730-732, 751, 755.

Rehabilitation, 258-260, 803-806.

State Advances, 750, **801-807**.

Supplementary, 258, 804, 805.

Suspensory, 258, **802**, 804, 805, 807.

Local Government, **132-137**, **618**, **620**, 662-663, **739-760**, **1098-1099**.

Advances to, **357**, 748, **750**, 804-806, 959.

Employees of, 759-760, 974-975, 981.

Amalgamation, 742.

Employees of, 759-760, 974-975, 981.

Assets of, 753-754.

Employees of, 759-760, 974-975, 981.

Borrowing, 744-745.

Employees of, 759-760, 974-975, 981.

Commission, 742-744.

Employees of, 759-760, 974-975, 981.

Debt of, 136, 738, **754-759**, **1098**, **1099**.

Employees of, 759-760, 974-975, 981.

Deposits with, 785.

Employees of, 759-760, 974-975, 981.

Expenditure of, 135-136, 618, 620, **663**, **751-752**, **1098**.

History of, 739-740.

Levies on, by Hospital Boards, 133-134, 136, **751**.

Liabilities of, 136, 753.

Obligations under Health Act, 116.

Receipts of, 134, 620, **662**, **748-750**, **1098**.

Superannuation, 208-211.

Taxation by, 662, 726, **745-747**.

Local Option, 1046.

Local Railway District, 739-760.

Locally-produced Commodities, Price Indices, 887, 890, 895.

Location of Debt, 733, 757, 1097.

Lockouts, 945-949, **988-996**.

Locomotives, 340, 341.

Lodges, Friendly Societies, 211-212.

Losses from Fire, 830-835, 840.

In Forests, 508.

Lotteries, 1049-1050.

Duty on, 722, 1049.

Lubricants and Fuels, Imports of, 297, 298, 306, 313.

Lucerne, 466, 467.

Lump-sum Payments, 653.

M

Machinery—

Accidents, 96, **1001**, 1010.

Factory, 561, 508.

Farm, 308, **460-464**.

Imports of, 296, 308, 309.

Industry, 555-572, 589.

Inspection of, 1009-1010.

Magistrates, Superannuation of, 207.

Mails, 381, 1102.

Air, 371-377, **379-380**.

Main Highways, 358.

Maize, 466-468.

Malting Barley, 471.

Mangia Island, 2, 1013, 1015.

Manganese Ore, 534, **537**, 549.

Mangolds, 467, 473.

Manihiki Island, 2, 1013, 1015.

Mauao Island, 2, 1013, 1015.

Manufacturing Industry Sector Account, 675-676.

Manufacturing Production, 434-436, **851-889**, 1095.

Persons Engaged in, **552-558**, 560, 568, 573-589, **966-975**.

Manure Industry, 583.

Manures, Imports of, 296, 311.

Manures Used for Top-dressing, 374, 475.

Maori Affairs, Board of, 413.

Maori Electorates, 16, 1073.

Maori Housing, 260, **608-601**, 609, 960.

Maori Lands, **413-416**, 502.

Maori Succession Duty, 721.

Maori Trusts, 414, 734, 1063.

Maori War Benefits, 176.

Maori Welfare, 1050.

Maoris—

Births of, 97-98, 103-104.

Children Attending Schools, 149, **156-159**, **161**, 162.

Deaths of, 97, **99-103**, **105**.

Employment, 970.

Expectation of Life, 99.

Franchise, 17.

Half-castes, **45**, **82**, 98.

In Mental Hospitals, 143.

In Prisons, 223, 230.

Infant Mortality of, 101-103, 108.

Marriages of, 98, 105.

Members of Parliament, 16, 1073.

Natural Increase of, 104.

Offences by, 22-223.

Population, 19, 35, 36, 37, **44-45**, **52**.

Rehabilitation of, 256, **260**.

Schools for, 148, 149, 153, 154, **156-157**, 158, 159, **161**, 162.

Sex Proportions of, 23.

Still-births, 66.

Map of New Zealand [End of Volume].

Maps and Mapping, 420-422.

Marble, 546.

Marine Officers' Certificates, 337, 930.

Marital Status, 48-49, 68.

Market Gardeners, 396, 466, **475-476**, 931-933.

Registration of, 476.

Market Prices of Shares, Yield on, 894.

Marketing of Primary Produce, 275, **437-451**, 500, **868-870**.

Marriages, 66-74, 98, 105, 1085.

Masculinity Rate, **59**, 66.

Masseurs (see Physiotherapists).

Massey Agricultural College, 148, 149, 166, **169**, 256.

Materials Used in Factories, 572, 583, 584, **862-864**, 568, 572-589, **1095**.

Maternal Mortality, 87, 88, **92-93**, 101, 106, 107, 114.
Maternal Welfare, 117, **123-124**.
Maternity Benefits, 117, 138, 176, **192**, 195, 196.
Maternity Hospitals, 123, 137, **138-139**, 192.
Maternity Nurses, 128, 139, 192.
Maternity Services, 138-139, 192, 195.
Maturity Dates of Loans, 731, **733**, 739.
Mauike Island, 2, 1013, 1015.
Mean Population, 21, 25, 437, 1084.
Mean Time, 1050.
Measures and Weights, 417, 466.
Meat—
 Bulk purchase of, 275, 449-450.
 Consumption of, 494, 496, 635, 636, 638.
 Export Control, 437.
 Export of, **276-280**, **282-286**, **292, 293**, 334, 449-450, 493-495, **1091**.
 Export Price Index, 887, 889.
 Freezing and Preserving Industry, **873**, 768.
 Industry Reserve Accounts, 452.
 Inspection of, 455.
 Marketing of, 278, 437-439, **449-451**.
 Prices for, 449-451, 869.
 Production, 494-496, 573-574.
 Retail Prices of, 871, 874-884.
 Wholesale Prices of, 886.
Meat Producers Board, 437-439, 450.
Medical Advertisements, 119.
Medical Benefits, 117, 176, **190, 195, 196**.
Medical Bursaries, 117, 168.
Medical Council, 127.
Medical Practitioners, 127, 190.
Medical Research Council, 127.
Medical Services, **115-139**, 189-196.
 In Cook Islands, 1015-1016.
 In Niue Island, 1021.
 In Western Samoa, 1025-1026.
Members of Parliament, 15-18, 1073.
 Superannuation of, 16, 207.
Meningitis, 106, 118.
Meningococcal Infections, 84, 88, 100, 107, 109, 110.
Mental Defectives, **140-144**, 228.
Mental Hospitals, 117, **140-144**, 191.
Mercantile Marine, 247, 251, **327-338**.
 Pensions, 195, **202**, 204.
Merchandise, Exports of, **262-294**, 323-325, **1090-1094**.
Merchandise, Imports of, **261-274**, 295-315, 321-326, 632-634, **1090**.
Merchandise Transhipped, 334-335.
Merchants, Bank Advances to, 768.
Mercury, 535, **537**.
Meteorology, **11-13**, **379**, 1012, 1020, 1023.
Metropolitan Milk Boards, 739.
Midwives, 126, **128**, 139, 192.
Migration, External, 26-29, 1084.
 Child, 29.
Mileage of—
 Commercial Air Services, 372-376.
 Main Highways, 357, 359.
 Railways, 339, 344, 347, 1103.
 Roads, 354.
 Tramway, etc., Routes, 349, 352.
Mileage-tax, 356, 712.
Military Colleges, 241.
Military Forces, 240-242, 248-250.
Military Pensions, 174, **197-205**.
Military Training Act, 236.
Milk—
 Boards, 739.
 Consumption of, 635, 638.
 Control of Prices and Sale of, 739, 869.
 Districts, 739-760.
 Dried and Condensed, Exports of, 278, 280, 287, 292, 293, 1093.
 Dried and Condensed, Production of, 491.
 Examination and Testing of, 456, 489.
 For School-children, 121, 163.
 Marketing of, 440.
Milking-machines, 461-462.
Milk-products (see Dairy-produce).
Mills, 551-589.
Mineral Waters, 1052.
Minerals and Mineral Production, 534-550.
 Export Price Indices, 887, 889.
 Wholesale Price Indices, 886.
Miners' Benefits, 176, **184-185**, 195, 550.
Miners' Phthisis, 184-185.
Mining, **534-550**, 730.
 Accidents, 95, 540, 547, **997-1009**.
 Act, Examinations under, 549.
 Industry Sector Account, 674.
 Legislation, 534, 927-929.
 Persons Engaged in, 540, 541, 542, 544, 546, **547, 966, 974**.
 Produce Exported, 278, 279, 292, 293, 535.
 Strikes, 992, 993.
 Value of Production, 435, 534.

Ministers of Each Church, and Marriages by, 71.
Ministers Plenipotentiary, 1081-1083.
Ministries, Successive, 1068-1069.
Ministry, Holland, 1069, 1071-1072.
Mission Schools, 149, 156, 1016, 1026, 1032.
Mitiaro Island, 2, 1013, 1015.
Monetary Benefits, Social Security, **176-189**, **195-196**, 706, 969.
Money-orders Issued and Paid, 382-383, 1102.
Morbidity, **109-114**, **212**.
Mortality (see Deaths).
Mortgage Corporation, 801.
Mortgage, Dwellings with, 596.
Mortgage Exemption, 715.
Mortgages, Rights of, 792.
Mortgages' Indemnity Insurance, 722, **841**.
Mortgages, **791-801**, 804, 823.
 Rates of Interest on, 792, **797-800**, 806, 807.
 State Advances, 801-807.
Mortgages and Lessees Rehabilitation Act, 792.
Mothers, Ages of, 60, 61, 63.
 In Ex-nuptial Cases, 64.
Motive Power in Factories, 561.
Motor Transport, 342, 348-349, **360-369**.
Motor-engineering Industry, 387-588.
Motor-spirits—
 Consumption of, 361-362.
 Fixed Prices for, 865.
 Imports of, 306, 313.
 Resellers, Licensing of, 1044.
 Taxation on, **319**, 321, 356, 363, **712**, 750.
Motor-vehicles—
 Accidents, 88, 93, **94**, 96, 101, 106, 107, **366-369**, 1001.
 Assembly of, 587.
 Dormant Registrations, 362.
 Drivers' Licences, 356, 360.
 Duty on, 318, 324.
 Imports of, 295, 311, 313.
 Insurance, 824-827.
 Operated by Tramway Authorities, 348-350.
 Registration and Licensing of, 360-362.
 Taxation, 318, 324, 356, **360**, 661, **712**.
 Traffic Offences, 218, **219-220**, 367.
Motor-vessels Registered, 336.
Motor-ways, 359.
Mountains, 4-5.
Multiple Births, 59-60.
Murder, 72, 74, 88, 93, 101, 106, 107, **221**, 226.
 Abolition and Restoration of Death Penalty for, 222.
Museums, 165.
Mussels, 527, 529.
Mutton, Consumption of, 494, 635, 636.
Mutton Exported, **292-293**, 494-495, 635.
Mutton Produced, 494-496, 573.
Mutual Fire Insurance, 836.
N
Nassau Island, 2, 1014, 1015.
Nassella Tussock Districts, 739-760.
National Airways Corporation, **371-373**, **376**, 699, 730, 738.
National Council of Adult Education, 171.
National Development Loans, **707**, 732.
National Employment Service, 959, **970-976**.
National Film Library, 165.
National Film Unit, 114.
National Income and Expenditure, 652-669.
National Library Service, 153, **172**, 232.
National Licensing Polls, 1045.
National Provident Fund, 135, **208-211**, 734.
National Roads Board, 355.
National Savings, 727, 734, **780-781**.
Nationality, 31-33.
 Of Naturalized Persons, 32.
 Of Overseas Shipping, 329.
 Of Registered Aliens, 33.
Native Animals, 14.
Native Bush, 14, 397, **501-506**, **517-521**.
Native Fresh-water Fishes, 531-532.
Native Grasses, 14, 397.
Natural Increase of Population, 20, 34, **57-58**, **104**.
Naturalization, 31-33.
Nauru Island, 2, **1033-1034**.
Naval Defence, **236-239**, 246, 247, 250.
Naval Expenditure, 239, 701.
Negroes in New Zealand, 52.
Neo-natal Deaths, 77, **82-87**, **101-103**.
Nephric, 545.
Net Note Circulation, 771-773.
Net Reproduction Rate, 20.
New Zealand Broadcasting Service, 165, **390-394**, 734.
New Zealand Dairy Board, 438, 446.
New Zealand Meat, 3050.
New Zealand Red Cross Society, 131.
New Zealand Representatives Overseas, 1081.
Newspapers Registered, 382.
Niue Island, 1, 2, 19, 30, 294, 387, **1020-1023**.
No-licence Issue, 1046.
Note-issue, 763, 766, **771-773**, 786-787.

Notes in Circulation, **771–773**, 782, **1100**.

Notification of Births, 55, 97.

Notification of Diseases, 109–112, 118.

Nukunono Island, 2, 3, **1030–1032**.

Nullity of Marriage, 72–74.

Nurseries and Plantations, 396, **475–476**, **501–503**.

Nurses—

Dental, 121–122, 194.

District, 130, 193.

Industrial, 124.

In Public Hospitals, 760.

Male, 128.

Maternity, 128, 139, 192.

Pensions for, 199, 209.

Plunket, 120, 130, 139.

Psychiatric, 128.

Public Health, 120.

Registration of, 128.

Nursing, 126.

Nursing Aids, 128.

O

Oatmeal, Consumption of, 637.

Oatmeal Exported, 279, 280.

Oatmeal, Production of, 575.

Oats, 466, 467, 468, 470, 473, **1088**.

Observatory, Time Signals from, 393, **1051–1052**.

Occupation of Land, 395–397.

Occupational Health, 117, **124–125**.

Occupational Status, 967.

Occupational Therapists, 129.

Occupational Training of Discharged Servicemen, 253–255, 259.

Occupations of Bankrupts, 1040.

Ocean Island, 1034.

Offences, 217–230.

By Children, 169–171, 223–224.

By Maoris, 222–223.

By Women, 222.

Offenders Probation Act, 219, 221, **224**, 232.

Officers' Certificates (Marine), 337, 930.

Officers Act, Shops and, 924–926.

Official Representatives, 1081–1083.

Oil, Fish-liver, 529–530.

Oil, Production from Coal, 542.

Oil, Whale, 278, 279, 527, 530, 1033.

Oil-wells, 544–545.

Old People's Homes, 135, **139–140**.

Omnibuses Licensed, 361.

Onions, 467, **472**.

Exports of, 279, 280.

Opencast Mining, 541–543.

Opium, Prohibition of, 119.

Opossum-skins Exported, 278, 280, 292, 293.

Opticians, Registration of, 129.

Orchards, 396, 466, 467, **476–477**, 932–933.

Origin of Immigrants, 27–28.

Origin of Imports, 299–312.

Orphanages, 139–140.

Orphans Benefits, 176, **182**, 195.

Ottawa Agreement, 316, 322.

Outlying Islands, 1, 1011.

Out-patients, 137.

Maternity Hospitals, 139.

Overdraft Authorities, Unexercised, 771.

Overdraft Rates, 783.

Overtime, 570–571, 923–925, 927, 930, 932.

Owner Occupied Houses, Rental Value of, 652, 657, 664.

Oysters, 527, 529, 530.

P

Pacific Islands, Annexed, 1011–1023.

Bibliography, 1120.

Radio Communication, 387, 1018, 1022.

Paint and Varnish Industry, 584.

Paleontology, 548.

Palmerston Island, 2, 1014, 1015.

Pan-American Airways, 376.

Paper and Paper Products Industry, 555–572, 581.

Paper, Imports of, 296, 310, 314.

Paralysis, Infantile (Poliomyelitis), 84, 88, 100, 107, 109, **110–111**, 118.

Parcel post, 291, 380, **381–382**.

Parents—

Ages of, 60, 61, 63, 64.

Duration of Marriage of, 62.

Previous Issue of, 61.

Parks, National, 397–398.

Parliament, 15–18.

Members of, 1073.

Parliamentary Elections, 16, 17, 1045.

Parliaments, Successive, 1072.

Passenger Services, 363–366.

Passenger-mileage—

Air Services, 372–376.

Railways, 344.

Tramways, etc., 349, 353.

Passengers—

Commercial Aircraft, 372–377.

Motor-vehicle, 349, 366.

Overseas, 26, 1084.

Railway, 343–345, 1103.

Tramway, 349, 353.

Trolley-bus, 349.

Passion-fruit, 396.

Passports, 29–30.

Pastoral and Agricultural Production, **429–500**, 1088.

Persons Engaged in, 966.

Value of, 429–436.

Volume of, 431, 436.

Pastoral Produce—

Consumed Locally, 433, **635–636**, 638.

Export of **276–293**, 433, 493–495, 499, **1091–1094**.

Export Prices Indices, 887–839, 895.

Gross Farming Income, 429–431.

Wholesale Prices Indices, 886.

Pasture Grasses, 396, 467, **474**.

Patents, Designs, and Trade-marks, 1043–1044.

Patients in Mental Hospitals, 140–144.

Patients in Public Hospitals, **113–114**, **137**.

Payments, Balance of, 678–694.

Payments Overseas, 267–269, 775–777.

Peaks, Altitude of, 5.

Peas, 440, **476–477**, 869.

Export of, 279, 280.

Peas, 466–468, **471**.

Export of, 279, 280, 290, 292, 293.

Pels, Hides, and Skins, Export of, 276, 278, 280, 288–289, 292, 293, 334, 1094.

Penfryn (Tongareva) Island, 2, 1013, 1015.

Pensions, **174–211**, 653, 661, 664, 665.

Perinatal Mortality and Prematurity, 86–87.

Permanent Building Societies, 809–811.

Permanent Heads of Government Departments, 1077–1078.

Permits, Building, 590, 594, **601–608**.

Petitions—

Bankruptcy, 1037, 1038.

Divorce, 72–74.

Petrol (see Motor-spirits).

Petroleum, 306, 313, 534, **544–545**.

Petrology, 548.

Pharmaceutical Benefits, 117, 176, **191**, 195, 196.

Pharmaceutical Chemists, 130.

Pharmacy, 130, 1044.

Phormium, 397, 458, 459, **478**.

Fibre Exported, 279, 280.

Phosphate Rock, 545, 583.

From Nauru Island, 2, 1033–1034.

Phthisis (see Tuberculosis).

Miner's, 184–185.

Physical Welfare, 131.

Physiography, 1–8.

Physiotherapists, 128.

Physiotherapy Benefits, **193**, 196.

Picture-theatres, 1042–1043.

Pig-meats, 292, 293, 450, **494–497**, 573, 635, 636.

Pigs, 458, 459, 480, 481, **492–493**, **1089**.

Slaughtered, 493, 494.

Pilots, Air, 378.

Pisciculture, 532.

Placement Service, 959, 970, **977–979**.

Plains, 216.

Planing Mills, 580.

Planning, Town and Country, 747.

Plantations, 396, 458, 459, 467, **475**, **501–503**.

State, 502.

Plants, New Zealand, 14.

Platinum, 534, 537.

Plumbers, Registration of, 130.

Plunker System, 130, 139.

Plywood and Veneer, 514, 586.

Poisoning, 93, 96, 109, 110, **111**, 114, 118, 1003.

Poisons, 119.

Police Force, **233–234**, 700.

Superannuation, 206.

Policies, Insurance, 817–837.

Poliomyelitis, 84, 88, 100, 107, 109, **110–111**, 118.

Polling—

At General Elections, 1045.

At Licensing Polls, 1045.

Population, **19–54**, 437, **1084**.

Age Distribution of, 46–47.
Distribution of, 34–42.
Industrial Distribution of, 965–976.
Method of Compilation of, 24.
Occupational Status of, 967.
Of Campbell Island, 19.
Of Cook Islands, 19, **1015**.
Of Kermadec Islands, 19, 1012.
Of Nauru Island, 1034.
Of Niue Island, 19, **1020**.
Of Tokelau Islands, 19, **1031**.
Of Western Samoa, 19, **1025**.
Projection, 20–22.

Pork Consumed, 494, 635, 636.
Pork Exported, **292, 293**, 494, 495, 635.
Pork Produced, 494–496, 573.
Portfolios of Ministers, 1070.
Ports—
Fishing, 529.
Of Arrival and Departure, 328.
Of Registry, 336.
Shipping and Trade of, 291, 314, 327–336.

Post Office Account, 707.
Post Office Employees, **389, 975**.
Accidents to, 999, 1002, 1004, 1006.
Superannuation of, 206.

Post Office Savings bank, **777–778, 784, 1101**.
Postal and Telegraphic, **381–389, 699, 730, 910, 1102**.
Tribunal, 934, 939.

Postal Notes, 383, 1102.
Post-primary Education, 146–152, **158–161**, 1086.
Potatoes, 466, 467, **471–472**.
Consumption of, 636, 638.
Export of, 279, 280, 292, 293.
Marketing of, 440, 869.

Pottery, China, and Earthenware Industry, 585.
Poultry, 458, 459, **498–499, 637**.
Poultry-runs Registration, 499.
Pouanaru (Greenstone), 545.
Power Boards, 618, 620, 739–760, 1099.
Power, Electric (see Electric).
Power Used in Factories, 561.
Preferential Tariff, 315–319, 321–326.
Pregnancy, Diseases, etc. of, 84, **86–87, 88, 92–93**, 101, 106, 107, 109, 114.
Premiers, Successive, 1068–1069.
Premium Income, 817–841.
Preserved Meats, Production of, 573.
Prevention of Forest-fires, 504, 508–509.
Prevention of Profiteering, 865.
Price Levels, Spread in, 432.
Price Tribunal, 865–866.
Prices, 865–895.
Collection of, 878, 885.
Effect on Exports and Imports, 271.

Prices—
Fixation of, 865.
Guaranteed, 446–447.
Of New Zealand Stocks, 734.
Post-war Control of, 866.
Regulation of, 865–866.
Stabilization of, 865–867.
War-time Index, 875.

Primage Duty, 316–317, 321.
Primary Products—
Consumption of, 432–433, **635–638**.
Export of, **275–294, 334, 432–434, 449–451, 493–495, 1091–1094**.
Marketing of, 275, **437–451, 500, 868–870**.
Purchase for War Purposes, 275, 441.

Primary Schools, 146–150, **154–158, 162–164, 1026, 1086**.
Prime Ministers, Successive, 1068–1069.
Principal Events, 1105–1112.
Printing and Publishing Industry, 555–572, 581.
Prisoners of War, 45, 247, 248.
Prisons and Prisoners, 223, **226–232, 1087**.
Private Assignments, 1041.
Privy Council, Meeting of, 1069.
Probation, 218, **224–225, 232**.
Producers' Equipment, Imports of, 297–298.
Producers' Materials, Imports of, 297–298.
Producers' Materials, Wholesale Prices of, 887.
Production—
Agricultural and Pastoral, 429–500, 1088.
Clothing, 579.
Dairy, 490–492, 574.
Factory, 435, 436, **581–589, 1095**.
Fishes, 527–531.
Local Consumption of, 432–433, **635–638**.
Meat, 494–496, 573.
Mineral, 435, 534–550.
Pulp Products, 513–514.
Timber, 435, **512–514, 579**.
Value of, **429–437, 633, 634**.
Volume of, 431, **436–437, 569–570, 633–634**.
Wool, 430, **484–485**.

Professors, University, 166, 169.
Profiteering, Prevention of, 865.
Profit-sharing, 916.
Prohibition Issue, 1045.
Prohibition Orders, 218.
Promotion of Employment, 958, **969–976**.
Promotion of Industries, 958, 1044.
Properties Transferred, 399–402.
Proprietary Income, Taxation of, 847.
Proprietors, Working, 971–972.
Prorogation of Parliament, Dates of, 1072.
Protection of Wages, 940–941.
Provident Fund, National, 135, **208–211, 734**.
Provincial Districts, 740.

Area and Population of, 34–35.
Density of Population in, 43.
Factory Production in, 553.

Public Accounts, 695–708.
Public Buildings, Expenditure on, 702, 730.
Public Debt, 700, **727–728, 1097**.
Repayment of, 700, 703, 706, **727–731, 736–738**.
Public Finance, 695–708, 1096, 1097.
Public Health, 115–144.
Public Service, 934, **1079–1080**.

Board of Appeal, 1079.
Classification, 1079.
Commission, 1079–1080.
Employees, 1079, 1080.
Superannuation, 206–208.

Public Trust Office, 1035–1037.
Public Works—

Accidents, 999–1006.
Account, **702–703, 707**.
Co-operative System, 916.
Employees, 934, **980–981**.
Housing Construction, 598–600, 606–607, 702.
Railway Construction, 339, 702.
Road Construction, 355, 702.

Public Works and Services, Maintenance of, 661, 701–703.
Publicans' Licences, 750, **1046–1048**.
Publications—

Agriculture Department, 456, 474.
Census, 45.
Census and Statistics Department (see Forefront of Book).
Education Department, 165.
General Bibliography, 1115–1120.
Labour and Employment Gazette, 970.
Lands and Survey Department, 421.
Few *Zealand Flora*, 14.
New Zealand Listener, 391.
Register of Newspapers, 382.

Publishing and Printing Industry, 555–572, 581.
Pauper Accidents, etc., 84, **86–87, 88, 92–93**, 101, 106, 107, 109, 114.
Puisne Judges, 1074.
Pukapuka (Danger) Island, 2, 1014, 1015.
Pulp and Paperboard, Imports of, 310.
Pulp Products, Production of, 513–514, 581.
Pumice, 278, 279, 534, 546.
Pupils, School, 149–163, 1086.

Q

Quackery-prevention, 119.
Quadruplets Born, 59.
Quarries, 546, 927, 929.
Accidents at, 95, 547, **999, 1007**.
Persons Engaged in, 547, 974, 966.

Quartz-mining, 535.
Quicksilver, 535, 537.
Quorum—

Executive Council, 15.
House of Representatives, 16.

Quotations, New Zealand Stocks, 734.

R

Rabbit Districts, 739–760.
Rabbits, Destruction of, 374, 452.
Rabbit-skins Exported, 278, 280, 289, 292, 293, 1093.
Racial Origins, 52.
Racing, Tax on, 799, **722–724**.
Radiation Protection, 125.
Radio Advertising, 390, 393.
Radio Assembly and Manufacture, 587.
Radio Beacons, 337.
Radio Broadcasting, 165, **390–394**.
Radio Communication, **387, 1018, 1022**.
Radio Licences, 394.
Radio Stations, 387, **390–393, 1018, 1022**.
Radio Time-signals, 393, **1051**.
Radioactive Substances Act, 125.
Radiologists, 125, 192, 196.
Radio-telephone Services, 387.
Raffles, 1049.
Rail Cars, 340.
Railway Equipment, Imports of, 297, 312.
Railways, 339–347, 1103.

Accidents, **94**, 96, **347**, 368.
Air Freight Service, 373.
Debt, 730.
Private, 339, 347.
Revenue and Expenditure, 341–343, 705, 1103.
School-children's Transport and Fares on, 162.
Superannuation, 206, 347.
Tribunal, 347, 934, 939.

Rainfall, 11–13.
Rakabaga (Reirion) Island, 2, 1014, 1015.
Rangemaking Industry, 587.
Ranges, Mountain, 4–5.
Raoul Island, 1012.
Rape, 466, 473.
Rarotonga Island, 2, 1013, 1015–1018.
Rateable Value of Land, 427–428.
Rates, Local Government, 662, 726, **745–747**, **1098**.
Rates of Exchange, 787–789.
Rates of Interest—

On Building Societies' Deposits, 784.
On Company Deposits, 784.
On Fixed Deposits, 783–785.
On Local Authorities' Debt, 758.
On Mortgages, 792, **797–800**, 806, 807.
On Public Debt, 731–732, 735.
On Rehabilitation Loans, 258.
On Rural Intermediate Credit, 807.
Paid by Savings-banks, 777, **784**.

Rates of Tax, 712–718, 854, 859.
Rates of Wages, 558, **896–912**, 924, 926, 927, 930, 932, **935–945**.
Rates of War Pensions, 198–202.
Rating by Local Government, 133–134, **745–747**.

On Unimproved Value, 746.
On Urban Farm Lands, 425.

Rationing, 638.
Receipts, Overseas, 267–269, 775–777.
Reciprocal Benefits, 174, 175, 176, **189**, 706.
Reciprocal Tariff and Trade, 321–326.
Reclamation of Sand Dunes, 510.
Recreation and Physical Welfare, 131.
Recruiting—

Air Force, 243.
Army, 240.
Navy, 238.
Police, 233.

Red Cross Society, 131.
Redemption of Loans, 700, 703, 730–732, 751.
Redemption of Mortgages, 791–792, 800–801.
Redemption of Savings Bonds, 781.
Re-exports, 283–294.
Reformatory Detention, 170, 221, 228, 229.
Refuge Homes, 140.
Refuge Organization, International, 29.
Refunds to Racing Clubs, 723.
Registrars, Marriages Before, 66, **71**.
Registration—

Of Adopted Children, 65.
Of Aliens, 33–34.
Of Aparities, 499.
Of Apprenticeships, 950.
Of Births, **55**, **97**, **104**.
Of Building Societies, 808.
Of Chemists, 130.
Of Companies, 812.
Of Dairy Companies, 490.
Of Deaths, **75**, 99.
Of Deeds, 399.
Of Dentists, 127–128.
Of Designs, 1043, 1044.
Of Electors, 17, 741.
Of Ex-nuptial Births, 55, 63.
Of Fishing Vessels, 526.
Of Friendly Societies, 211.
Of Hospital Dietitians, 129.
Of Industrial Unions, 982.
Of Land Titles, 399.
Of Male Nurses, 128.
Of Maori Births, 97–98.
Of Maori Deaths, 75, **97**, **99**.
Of Maori Electors, 17.
Of Market Gardens, 476.
Of Marriages, 66, 98.
Of Maternity Nurses, 128.
Of Medical Practitioners, 127.
Of Midwives, 128.
Of Mortgages, 793–800.
Of Motor-vehicles, 360–362.
Of Newspapers, 382.
Of Nurseries, 476.
Of Nurses, 128.
Of Nursing Aids, 128.
Of Occupational Therapists, 129.
Of Opticians, 129.
Of Orchards, 476.
Of Patents, 1043, 1044.
Of Pharmaceutical Chemists, 130.
Of Physiotherapists, 128.
Of Plumbers, 130.
Of Poultry-runs, 499.
Of Private Schools, 157.
Of Psychiatric Nurses, 128.
Of Still-births, 55, **65**, 75, 86.

Of Trade-marks, 1043, 1044.
Of Trade-unions, 982.
Of Unemployed, 970.
Of Vessels, 336.

Registry, Ports of, 336.
Regulation of Prices, 865–866.
Regulation of Wages, 896–899.
Rehabilitation, 166, 168, **251–260**, 661, 803–806, 931.
Relief, Charitable, 135–136, 139–140.
Relief of Unemployment, 185–186, 189, 958, 969.
Religious Professions, **49–50**, 71.

Marriages by Ministers of, 71.
Officiating Ministers, 66, **71**.

Renewable Leases, 406–412.
Rent Restrictions, 961–962.
Rental Cars, 361.
Rental Value, Owner-occupied Houses, 652, 657, 664.
Rented Dwellings, 596.
Renters, Film, Taxation of, 724.
Rents, House, 874–884, 961–964.
Rents, Stabilization of, 961.
Repayment of Public Debt, 700, 703, **730–732**, **736–738**.
Representatives, House of, 15–17, 1073.

Broadcast of Proceedings of, 393.
Election of, 17, 1045.
Members of, 1073.

Representatives in New Zealand, 1082–1083.
Representatives Overseas, 1081.
Reproduction Rate, 20.
Research, Agricultural, 455–458, 469, 479.
Research, Coal, 542.
Research, Dental, 123.
Research, Educational, 171.
Research Institute, Wheel, 469.
Research, Medical, 127.
Research, Mining, 547–549.
Research Scholarships, 168.
Research, Wood-utilization, 516.
Reserve Bank, 267–269, 734, 738, **761–764**, 786–787.
Reserves, Air Force, 244.
Reserves, Farm Industry, 452.
Reserves, Military, 242.
Reserves, Naval, 239.
Reserves, Public or Scenic, **397–398**, 502.
Residence, Duration of, of Overseas Born, 51.
Restrictions on Consumption, 638.
Restrictions on Employment, 923, 927, 930, 933.
Retail Prices, **871–885**, 890, 895.
Retail Trading, 641–646, 650–651.
Retailers, Bank Advances to, 768.
Revaluations, Land, 424–425.
Revenue, 652–726, 1096.

Cinematograph Theatres, 1042, 1043.
Customs, **320–321**, 709, 711.
Electric power, 619–621, 623, 625, 750.
Forest Service, 511.
Insurance Companies, 820, 822, 825, 831, 837–841.
Local Government, 134, 620, 662, **748–750**, **1098**.
Post and Telegraph, 384, 387, **388**.
Railway, **341–343**, 345, 346, **705**, **1103**.
Social Security Fund, 175, 706, 709, 725.
Tramways and Associated Transport, 351–353.

Review of Legislation in 1953, 1052–1067.
Rivers, 6–7, 615–616.

Control of, 702, **739**.

Road Districts, 739–760.

Bridges in, 354.

Debt of, 753.

Mileage of Roads, 354.

Road Goods Services, 363–365.
Road Passenger Services, 348–350, 363–366.
Road Safety, 366–367.
Road Transport, 348–350, 362–366.
Roads, 354–369.

Accidents on, 88, 93, **94**, 96, 101, 106, 107, **368–369**.
Expenditure on, **356–360**, 549, 703, 730.
Taxation, **356**, 360, 363, 699, 709, **712**.

Roll, Valuation, **423–424**, 745.
Rolling-stock.

Railway, 340–341.
Tramway, etc., 348–350, 353.

Roman Catholic Schools, 148, **158**, 1016.
Ross Dependency, 2, 3, 19, 1033, 1120.

Whaling, 1033.

Rotorua Thermal Springs, 1052.
Royal New Zealand Air Force, **243–245**, 250–251.
Royal New Zealand Navy, 236–239, 246, 250.
Royal Tour, Appendix (d), 1121–1132.
Rubber Products Industry, **555–572**, **582**, 910.
Rural Advances, 407, 411, 807.
Rural Education, 162–163.
Rural Housing, 662, 666, 748, 804, 960.
Rural Intermediate Credit, 806–807.
Rural Mail Deliveries, 381.

Rural Mortgages, 792, 795–796, 798, 804.
Rural Population, 35–36.
Ryeconom, 466.

S

St. Helens Hospitals, 123, 138, 139, 192.
St. John Ambulance, 131.
Salaries and Wages, 117, 135, 352, 388, 552, 553, 554, **558–560**, 572–589, 619–622, 629–631, 643, 644, 648, 649, **657, 658, 664, 668**, 671, 673–677, **849, 863**, 1042, 1095.
Charge on, 133, 175, 706, 709, 725, 897.
Salaries of Members of—

Executive Council, 15.
House of Representatives, 16.
Public Service, 1080.

Sales Tax, 661, 699, 709, **725–726**.
Salmon, Acclimatization of, 532.
Salt, 534, **546**, 738.
Samoa (see Western Samoa).
Sanatoria, 137.
Sanctuaries, Wildlife, 399, 1054.
Sand and Gravel, 534, 546.
Sand Dunes, Reclamation of, 510.
Sanitation, 115–120.
Sausage-cannings, Export of, 278, 280, 289, 292, 293.
Sava'i Island, 3, 1023.
Savings Accounts (National), 727, **780–781**.
Savings Bonds (National), 727, **780–781**.
Savings, Private, 654–659.
Savings-banks, **777–780**, 784, **1101**.
Sawmills, etc., 512–514, 579.
Schoeller, 278, 279, **536**.
Scholarships, **167–168**, 1026.
School Certificate, 147, 152.
School Committees, 145, 146.
School Inspectors, 155, 157, 158.
School Journal, 165.
School Savings Bank, 778–779.
School System, 146–149.
School-children, 149–151, 154–163, 1086.

Board and Conveyance of, 162.
Dental Treatment of, 122.
Medical Inspection of, 120.
Milk for, 121, 163.

Schools, **145–173**, 1016, 1021, 1026.

Carpentry, 253.
Combined, 149, **158–160**, 162, 165.
Consolidation of, 162.
Denominational, 148, **158**, 1016, 1026.
Dental Clinics, 122.
Military, 241.
Of Mines, 166, 547, 549.
Private, 149, **187–189**, 162, 1086.
Public, **145–165**, 1086.
Special, 153, 170.

School-teachers, 145, 157, 158, 163–165.

Superannuation, 206.

Science, Defence, 235–236.

Scientific and Industrial Research, Department of, 456–458.

Sea-fisheries, 526–531.

Seals, 530.

Seamen, 195, 202, 204, 929–931.

Seamen Act, Shipping and, 929–931.

Secondary Education, 146–152, **158–161**, 162, 163, 165, **1086**.

Seeds, Grass, and Clover, 466, 467, 473–474.

Certification of, 479.
Exported, 279, 280, 290, 292, 293, 1093.
Seeds, Imports of, 304.

Seed-sowing, Aerial, 374.

Seismology, 8–11.

Sentences on Criminals, 220–221, 1087.

Separate Rates, 745.

Separation, Judicial, 72–74.

Separators, Cream, 461.

Serpentine, 534, **545**, 546, 549, 583.

Service, Public (see Public Service).

Service-car Licences, 361.

Servicemen—

Acquisition of Land by, 255–256, 402–403, 411–412.
Awards to, 248.
Casualties Overseas, 246–251.
Demobilization of, 260.
Educational Facilities for, 257.
Financial Assistance to, **258–260**, 412, 803–806.

Overseas War Service of, 54.

Pensions for, 174, 195, **197–205**.

Registration of Deaths of, 75.

Rehabilitation of, 166, 168, **281–260**, 661, 803–806, 931.

Servicemen's Settlement Act, 403.

Applications under, 404.

Services—

Air Force, **243–245**, 247, 250–251.
Army, **240–242**, 245, 247–250.
Navy, **236–239**, 246, 247, 250.

Services, Distribution Statistics of, 649–651.

Sessions, Parliamentary, Successive, 1072.
Settlement of Industrial Disputes, 945–949, 994–995.
Settlement of Land, 395–416.
Settlement, Servicemen's, 255–256, 259, 402–403, 411–412.
Settlement, Small-farms, 407–412.
Sex Proportions, 23–24.
Sexes of—

Children Born, **53–59**, 66, 98.
Factory Employees, 556–557.
Patients in Mental Hospitals, 140–144.
Patients in Public Hospitals, 113.
Prisoners 228 229.
Scholars and Students, 155, 157–160, 166–167.
School-teachers, 157, 158, **163–165**.
Twin Births, 60.

Share Prices, Index Numbers, 891–895.
Sharebrokers' Licences, Tax on, 722.
Share-milking Agreements, 932.
Shares in Building Societies, 809, 810.
Shares, Labour, 916.
Shearers' Wage-rates, 939.
Shearing-machines on Farms, 461.
Sheep, 480–484, 1089.
Sheep and Lambs Slaughtered, 493, 573.
Sheep Farms, 458, 459.
Sheep-skins and Pelts Exported, 278, 280, 289, 292, 293, 1094.
Sheetmetal Working Industry, 588.
Shipping, **327–338**, 768.
Shipping and Seamen Act, 929–931.
Ships (see Vessels).
Shoe and Boot Industry, 579.
Shops and Offices Act, 924–926.
Shops, Fire Losses on, 835.
Short-wave Radio Broadcasting, 390, 392.
Sick Funds, 212, 347, 388, 550, 705.
Sickness, **109–114**, 212.

Benefits, 176, **186–188**, 195.
Insurance, 212, 824.

Signals, Time, 393, **1051–1052**.

Silica Sand, 534, 546.

Silver, 534, 535, 536.

Coins, New Zealand, 785–787.
Exported, 278, 279, 292, 293, 535.

Silviculture, 505–508.

Sinking Funds, 136, 350, 623, 626.

Skins, Hides, and Pelts, Export of, 276, 278, 280, 288–289, 292, 293, 334, 1093–1094.

Slaughter of Animals for Food, 493.

Snares Islands, 2, 35, 1012.

Soap and Candle Industry, 583.

Social Accounts, 652–694.

Social Security, 133, **174–197**, 915, 919.

Benefits, 117, 122, 144, **176–197**, 653, 661, 664, 665, 706.
Charge, 133, **175**, 706, 709, **725**, 858, 859, 863, 897.
Fund, 117, 122, **175**, **706**, 710, 725.
Reciprocity with Australia, 174, 175, 176, **189**.
Reciprocity with Great Britain, 174, 176, **189**.
Taxation, **175**, 661, 706, 709–711, **725**, 897.

Soil Conservation, **509**, 702, 703, 739.

Solander Island, 2, 35, 1012.

Soldiers, 240–242, 247–249.

Sources of income, 848–850.

South Africa, Union of—

Birth and Natural Increase Rates, 58.
Population, Annual Average Increase, 23.
Reciprocal Trade with, 322.
Retail Prices in, 873.

South African War Pensions, 195, 197, **200**, 204.

Southern Alps, 4–5.

Spas, 1052.

Specialist Services, 193, 196.

Specie, Movement of, 274, 1090.

Speed Limit, 366.

Spinsters Marrying, 68–70.

Spirits, Consumption of, 637.

Duty on, 318, 320, 321.

Imports of, 304, 313.

Sports, 131.

Stabilization of—

Prices, 865–867.
Rents, 961.
Wages, 941–945.

Stabilization Subsidies, 653, **662**, **700**, 705, **867**.

Stakes, Tax on, 723.

Stamp Duties, 699, 709, **721–722**.

Standard Time, 1051.

Standardized Death-rates, 80–81.

For Cancer, 90.

State Advances, 748, 750, **801–807**, 959.

Corporation, 598–599, 734, 738, 748, **801–807**, 959.

State Aid to—

Afforestation, 510.
Building, 598–600, 748, **801–807**, 959.

Cook Islands, 1019.
Crown Tenants, 407.
Discharged Servicemen, **251-260**, 411-412, 803-806.
Farming Industry, 406-412, **452-453**, **455-458**, 801-807.
Hospital Boards, 133, 134, 136.
Housing, **748**, **891-807**, 959, 960.
Immigrants, 28-29.
Kauri-gum Industry, 545.
Local Authorities, 133, 134, 136, **357-358**, 662, 748, **802-806**.
Manufacturing, 804-806, 1044.
Mining, 547-549.
Niue Island, 1023.
Prospecting, 547.
Purchases of Private Land, 411.
Superannuation Funds, 207, 210.
Unemployed, **185-186**, 195, 958, 969.
Water-power Development, 615.
Western Samoa, 1029.
Wheat-growing, 469.

State Coal Mines, 542-544.

Account, 705-706.
Persons Employed in, 544.

State Departments, 1035, 1070, **1077-1078**.
State Finance, **660-664**, 695-738, 1096, 1097.
State Forests, **501-508**, **521-524**, 730.

Accidents, 1002, 1004.

State Housing, 591, **598-600**, **606-607**, 703, 730, 807, 960.

Sale of, 807.

State Hydro-electric Department, 615, 980.
State Indebtedness, 727-738, 1097.
State Insurance—

Accident, 734, **838-840**.
Earthquake, 707, **840-841**.
Fire, 734, **840**.
Life, 837-838.
War Damage, 707, **840-841**.

State Marketing, 437-442, **868**.
State Maternity Hospitals, **138**, 139, 192.
State Placement Service, 959, 970, **977-979**.
Stations—

Air Force, 244.
Fire Brigade, 836.
Hydro-electric, 615-617.
Meteorological, 11, **13**, 1012.
Naval, 238.
Radio, **387**, **390-393**, 1012, 1018, 1022.
Telephone, 384.

Statistical Information, Latest (see Forefront of Book).

Statistical Publications (see Forefront of Book).

Statistical Summary, 1084-1104.

Statutes of 1953, 1052-1067.

Steam, Geo-thermal, 618.

Sterling Exchange—

Holdings of, 763, 774.
Rates, 788.

Sterling Values of Currency, 788.

Sterling Values of Trade, 262.

Stewart Island, 2, 3.

Oysters, 530.
Population, 40.

Still births, 55, 59, 60, **65-66**, **85-87**.

Registration of, 55, **65**, **75**, 86.

Stock and Station Agents—

Advances to, 768.
Deposits with, 784.

Stock, Live (see Live-stock).

Stock, Quotations for, 734.

Stocks, Retail, 641-645, 650.

Stocks, Wholesale, 647-648, 651.

Stone-fruits, 476, 636.

Stone-quarries, 546, 929.

Stones, Building and Ornamental, 534, **546**.

Stores, Retail, 641-645.

Stores, Wholesale, 647-648.

Stranding of Vessels, 338.

Streets and Roads, Length of, 354.

Strikes, 925, 945-949, **988-996**.

Students, 149-152.

Students, University, 149, 152, **166-167**, **1086**.

Subscribers, Telephone, 384.

Subsidies—

Highways, 557.
On Coal production, 662, 867.
On Food and Clothing, 662, 867.
On Rates, 750.
Stabilization, 653, **662**, **700**, **867**.
To Farming Industry, **42-43**, 662, **672**.
To Gasworks, 627.
To Hospital Boards, 133, 134, 136.
To Mining, 547.
To National Provident Fund, 210.
To Superannuation Funds, 207, 388, 703, 705, 706.
To Transport Industry, 662, 867.

Succession Duty, 718-721.

Suffrage, 17, 741-742.

Sugar—

Consumption of, 575, 576, 577, 637, 638.
Duty on, 317, 320, 321.
Exported, 279, 280.
Fixed Price for, 865.
Imports of, 304, 312.
Used by Factories, 575, 576, 577.

Sugar of Milk Exported, 278, 280, 292, 293.

Suicide, 88, 96-97, 101, 106, 107, **226**.

Sulphur, 314, 534, 537, 583.

Summary Convictions, **217-220**, 222, **1087**.

Summer Time (Daylight Saving), 1051.

Sunshine, 11-13.

Superannuation, 16, 206-211, 347, 700.

Benefits, Social Security, **176-178**, 195.

Superphosphate and Fertilizer Industry, 583.

Superphosphate, Fixed Prices for, 865.

Supplementary Medical, etc., Benefits, 117, 176, **192-196**.

Surax, 316.

Survey Publications, 421.

Survey System, 417-418.

Surveys, 417-421.

Aerial, 374, **420**.

Geodetic, 418-419.

Geological, 538, 544, 547.

National Forest, 503.

Of Coal Resources, 538-540.

Of Employment, 970-979.

Of Housing, 748.

Of Retail Prices, 873.

Of Ships, 337.

Tidal, 420-421.

Sustenance Allowances, 958, 969.

Suvarrow (Anchorage) Island, 2, 1014, 1015.

Swedes, 466, 467, 473.

Sweepstakes, 1049-1050.

Swordfish, 531.

Syphilis, 84, 88, 100, 102, 106, 107, 111, 114, 118, 141.

Syrians in New Zealand, 52.

T

Takutea Island, 2, 1013.

Tallow Exported, 278, 279, 287-288, 292, 293, 334, 1091.

Tallow Marketing and Prices, 451.

Tallow Produced, 573.

Tanning Industry, **882**, 909.

Tariff, Customs, 315-326.

Tariffs and Trade Agreement (Geneva), 275, 325-326.

Tasman Empire Airways, **374-375**, 730, 738.

Tax, Land and Income, 661, 699, 703, 709, **712-718**, **842-864**.

i Taxation, 320, 653-669, 699, **708-726**, 1096.

Amusement, 709, **724**, 1042, 1055.

Customs, **315-326**, 661, 709, **711**.

Direct, 658, 661, 662, 666, 667, 708.

Employment Promotion, 711, 725, 897.

Film-hire, 699, **724**.

Forest, 510.

Highways, **386**, 363, 699, 709, **712**.

Indirect, 653, 658, 661, 666.

Local Government, 662, 726, **745-747**.

Motor-spirits, 319, 321, 356, 363, **712**, 750.

Motor-vehicles, 318, 324, 356, **360**, 661, **712**.

Orchards, 476.

Racing, 709, **722-724**.

Sales, 661, 699, 709, **725-726**.

Social Security, **175**, 661, 706, 709-711, **725**, 897.

War, 318-320, 707, 708, 710.

Taxis, 361.

Taxpayers, Incomes of, 842-864.

Tea—

Consumption of, 637.

Duty on, 317.

Imports of, 304, 312.

Teachers' Grading, 145.

Teachers' Superannuation, 206.

Teachers' Training Colleges, 148, 152, 153, **163-164**.

Teaching Aids, 165.

Teaching Profession, 163-165.

Technical Correspondence School, 149, **159**.

Technical Education, 149, 149, **158-162**, 165, 1086.

Telegraph Services, 383-384, 386.

Telephones, 383-386.

Television, 392.

Temperature Records, 11-13.

Tenancy and Rents, 959-964.

Tenure of Crown Lands, 406-412.

Tenure of Dwellings, 596.

Tenure of Occupied Land, 397, 408-410.

Terminating Building Societies, 809-811.

Terms of Trade, 271.

Territorial Air Forces, 243-244.

Territorial Forces, 240-242.

Pensions for, 197.

Textiles, Duty on, 318.

Textiles, Production of, 555-572, 578.

Theatres, Cinematograph, 1042–1043.
Theatres, etc., Fire Losses on, 835.
Therapists, Occupational, 129.
Third-party Risks Insurance, 824–827.
Three Kings Islands, 2, 35, 1012.
Threshing-machines, 460, 461, **463–464**.
Tidal Survey, 420.
Timber—

Carried on Railways, 345, 346.
Export Duty on, 318.
Export of, 278, 279, 290, 292, 293, 515–516.
Export Prices Index, 887, 889.
Import Duty on, 318, 323, 324.
Import of, 296, 309, 314, 515–516.
Output, 435, **512–514**, 579.
Plantations, 396, 458, 459, 467, **475, 501–503**.
Resources, 501–503.
Royalties, 511.
Sales, 511.
Trees, **14, 517–525**.

Timbers, Strengths of, 525.

Time Lost—

Through Industrial Accidents, 1004–1007.
Through Industrial Disputes, 988–996.

Time Service, 393, **1050–1052**.

Tin, 534, 537.

Tire-tax, 319, 356, **712**.

Title, Certificates of Issued, 400.

Tiles, Compulsory Registration of, 399.

Tobacco, 466, 467, 478.

Consumption of, 637.
Duty on, 318, 319, 321.
Factories, 555–572, 578, 909, 966.
Imports of, 296, 297, 304, 313.

Tokelau (Union) Islands, 1–3, 19, **1030–1032**.

Toll Communications, 384.

Ton-miles Flown, 372, 373, 375, 376.

Ton-miles, Railway, 345, 346.

Tonnage of Registered Vessels, 336.

Tonnage of Shipping and Cargo, 327–336.

Top-dressing, 374, **475**.

Topographical Mapping, 420.

Totalizer, Turnover on, 723.

Totalizer, Taxation, 722–724.

Tour, Royal, Appendix (d), 1121–1132.

Tourist Agents Overseas, 1081.

Tourist Attractions, 1052.

Tourists, 26.

Tourists' Rail Tickets Issued, 345.

Town and Country Planning, 747, 1062.

Town Districts, 739–760.

Area of, 42.
Bridges in, 354.
Capital and Unimproved Values, 427.
Debt, 753, 756.
Mileage of Streets, 354.
Population, 42.

Tractors, Imports of, 308, 313.

Tractors on Farms, 460, 461, **462**.

Trade, 261–335, 1090–1094.

Agreements, 275, **321–326**.
Balance of, 264–267.
Board of, 272.
Cook Islands, 294, 315, **1018–1019**.
International Conference on, 275.
Niuru Island, 1034.
Niue Island, 294, 1022.
Of Ports, 291, 314, 327–335.
Representatives, 1081–1083.
Volume of, **270**, 634.
Western Samoa, 1028.

Trade Training of Discharged Servicemen, 253–255, 260.

Trade Marks, 1043–1044.

Trade Unions, 945–949, 982–987.

Trades Certification, 152, **983**.

Trading Accounts, State, 704–706.

Trading Banks, **764–771**, 782, 783, **1100**.

Trading Companies Deposits, 781, 784.

Trading, Retail, 641–646, 650–651.

Trading, Wholesale, 647–648, 651.

Traffic—

Accidents, 88, 93, **94**, 96, 101, 106, 107, 347, **366–369**.
Air, 370–380.
Motor, 348–349, **360–369**.
Offences, 218, **219–220**.
Railway, 342–346, 1103.
Tramway, etc., 348–353.

Training of—

Defence Forces, 236–245.
Dental Nurses, 122.
Discharged Servicemen, 253–255, 260.
Nurses, 126.
Police Recruits, 233.
Teachers, 152, 153, **163–164**.

Tramways, 348–353.

Accidents, **94**, 368.
Cable, 352.

Transhipments of Cargo, 333–335.
Transport, 327–380.

Districts, Urban, 739–760.
Equipment, Imports of, 297–298.
Equipment, Industry, 555–572, 587–588.
Industry Sector Account, 677.
Licensing, 363–366.
Of School-children, 162.
Persons Engaged in, 967, 975.

Travelling-time, 913.

Trawling, 526, 528.

Treasury Bills, 728, 733.

Treaty of Waitangi, 413.

Tree-planting, 501–524.

Trees, Forest, 14, **517–525**.

Triplets Born, 59–60.

Trolley-buses, 348–349.

Trout, Acclimatization of, 7, **532**.

Trust (Liquor) Control, 1048.

Trust Territory, 1–3, 19, 30, 206, **1023–1030**, 1034.

Trustee, Maori, 414.

Trustee, Public, 1035–1037.

Trustee Savings-banks, **779–780**, 784.

Tuberculin Tests, 112.

Tuberculosis, 84, 85, 88, **89**, 90, 100, 102, 106, 107, 109, 110, **112**, 114, 116, 117, 118, **120**, 131, 137, 143, 187, 1015.

Maori Deaths from, 100.
Register, 112.

Tungsten Ore, 534, 535, **536**.

Tunnels, Railway, 339, 340.

Turkeys, 498.

Turnbull, Alexander, Library, 1114.

Turnips, 466, 473.

Tussock Boards, Nassella, 739–760.

Tussock Land, 397, 474.

Twins, and Triplets Born, **59–60**, **64**.

U

Under-graduates, 166.

Under-Secretaries, Parliamentary, 15, 1072.

Unemployment, 958–959, **965–981**.

Benefits, 176, **185–186**, 195, 958, 969.
Taxation, 725, 897.

Unexercised Overdraft Authorities, 771.

Unimproved Occupied Land, 397.

Unimproved Value of Land, 423–428.

Land-tax Assessed on, 715.
Rating on, 746.

Unions, Trade, 945–949, 982–987.

United Kingdom—

Birth and Natural Increase Rates, 58.
Consumption of Foodstuffs, 635, 638.
Dairy Produce Imported into, 492.
Debt Domiciled in, 730–735, 757, 1097.
Meat Imported into, 497.
New Zealand Representatives in, 1081.
Note Circulation, Index of, 773.
Population, Annual Average Increase, 23.
Prices, 873.
Purchase of Primary Produce, 275, **437–451**, 493.
Representatives in New Zealand, 1083.
Social Security Reciprocity, 174, 176, **189**.

United Nations, 3, 58, 67, 77, 81, 1023.

United States of America—

Birth and Natural Increase Rates, 58.
Consumption of Foodstuffs, 635, 638.
Exchange Rate with, 789.
New Zealand Representatives in, 1081.
Population, Annual Average Increase, 23.
Prices, 873.
Representatives in New Zealand, 1083.

University Education, 148, 149, 152, 160, **165–169**, 1086.

University Professors, 166, 169.

University Scholarships, 167–168.

Unpaid Fractions, Totalizer, 723.

Unpaid Rates, Penalty on, 750.

Upolu Island, 3, 1023.

Uranium, 537.

Urban Drainage Districts, 739–760.

Urban Drift, 35.

Urban Farm Lands, Rating on, 425.

Urban Housing, 601–608.

Urban Mortgages, **795–796**, 798, 804.

Urban Population, 35–38.

Urban Transport Districts, 739–760.

V

Vacancies, Employment, 973, 976–978.

Vaccination, 120, 121.

Valuation—

Of Exports, 261, 265, 275.
Of Imports, 261, 295.
Of Land, 422–428.

Of Personal Expenditure, 654.
Roll, **423-424**, 745.

Value Added in Manufacturing, 552, 553, 554, 565-566, 568, 570, 573-589.
Value of—
Currency, 787-789.
Factory Production, 434-436, **552-589**, **1095**.
Farm Production, 429-436.
Goods Available for Use, 632-633.
Materials Used in Factories, 552-589, 1095.
Production, 429-437.

Veal, 494, 495, 573.
Consumption of, 494, 636.
Export of, **292**, 293, 494, 495.

Vegetable Gardens, 475-476.
Vegetables—
Consumption of, 636.
Exported, Canned, 279, 280.
Retail Prices of, 871.

Vegetation, 14.
Vehicles—
Motor (see Motor-vehicles).
Railway, 340.
Tramway, etc., 348, 349, 353.

Veneer and Plywood, 514, 586.
Venereal Diseases, 84, 88, 100, 102, 106, 107, 111, 114, **118**, 141, 190.
Vessels—
Crews of, 26, 27.
Entered and Cleared, 327-332.
Fishing, 527.
Nationality of, 329.
Naval, **237**, 239, 246, 250.
Radio Communication with, 387.
Registered, 336.
Survey of, 337.
Wrecked, 338.

Veterans' Allowances, 195, 197, **201**, 204.
Veterinary Services, 452, 455.
Vineyards, 477.
Visitors to New Zealand, 26.
Visual Aids in Teaching, 165.
Vital Statistics, 55-114, 1085.
Cook Islands, 1015.
Niue Island, 1020.
Western Samoa, 1025.

Vocational Guidance, 161, 969.
Volcanoes, 4, 5.
Volume of—
Exports, **270**, 634.
Factory Production, 436, **569-570**.
Farm Production, 431, 436.
Goods Available for Use, 634.
Imports, **270**, 634.
Money in Circulation, 782-783.
Production, 431, **436-437**, 569-570.
Trade, 270, 634.

Voluntary Contributions to Hospitals, 134.
Voluntary Mental Patients, 143-144.
Voluntary Welfare Organizations, 130.
Voting—
At General Elections, 1045.
At Licensing Polls, 1045.
Qualifications, 17, 741-742.

Vouchers, Audit of, 696.

W

Wage, Basic, 936.
Wage, Minimum, 924, 926, 932, **936**.
Wage-earners, 552-558, 760, **967**, 987.
Wage-rates, 558, **896-912**, 924, 926, 927, 930, 932, **935-945**.
Wages—
And Salary Payments, 117, 135, 352, 388, 552, 553, 554, **558-560**, 572-589, 619-622, 629-631, 643, 644, 648, 649, **657**, **658**, **664**, **668**, 671, 673-677, **849**, 863, 1042, 1095.
And Wage-rate Legislation, 935-945.
Increases in, 898, 924, 935-945.
Legislative Changes in, 897-898, 935-945.
Lost through Industrial Disputes, 989-996.
Of Cinematograph Theatre Employees, 1042, 1043.
Of Electric-supply Employees, 619-622.
Of Factory Employees, 552, 553, 554, **558-560**, 572-589, **1095**.
Protection of, 940-941.
Shearers', 939.
Stabilization of, 941-945.
Tax on, 133, **175**, 706, 709, **725**, 897.

Waitangi, Treaty of, 413.
War, 246-251.
Bursaries for Soldiers' Dependents, 257.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.

Mortgages, 793.
Prices, 865-866.

Casualties, 246-251.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Damage Insurance, 707, **840-841**.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Deaths Register, 75.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Debt, 729.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Emergency Account, 708.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Expenditure, 707, 729, 730.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Expenses Account, 707, 710.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Loans, 729, 730.
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Measures Affecting—
Apprentices, 951.
Consumption of Commodities, 638.
Financial Transactions, 789.
Labour Legislation, 918, 931, 941.
Mortgages, 793.
Prices, 865-866.

Pensions, 174, 195, **197-205**.
Pensions Appeal Board, 203.
Pensions Emergency Fund, 202.
Publications Pertaining to, 1119.
Purchases of Produce, 275, 441.
Service, 54.
Taxation, 318-320, 707, 708, 710.
Veterans' Allowances, 195, 197, **201**, 204.

Warships, 237, 239, 246, 250.
Waterfront Control, 921, 934-935.
Water-power, 561, **614-626**.
Weather, H-13, **379**, 1012, 1020, 1023.
Weights and Measures, 417, 466.
Welfare of Workers, 924, 926, 927, 930, 933.
Welfare, Maori, 1050.
Welfare, Material, 123-124.
Welfare Organizations, 130.
Wellington—
Broadcasting Stations, 390-393.
Building Values, 605.
Climate, 11, 13.
Dwellings, New State, 607.
Population, 37, 38, 41.
Retail Prices, 871-873.
Sales-tax Receipts, 726.

Shipping, 291, 314, 328, 331–335.
Tramways, etc., 348–352.

Western Samoa, 1–3, 30, 206, **1023–1030**.

Bibliography, 1120.
Education, 1026.
Population of, 19, **1028**.
Radio Communication, 387, 391.
Trade, 1028.

Whale Oil, 278, 279, 527, 530, 1033.
Whales and Whaling, 530, 1033.
Wheat, 466–470, 1088.

Fixed Prices for, 865.
Imports of, 304, 312.
Milled, 575.
Subsidy on, 867.

Whey Butter, 491, 574.
Whipping Abolished, 222.
White Island Sulphur, 537.
Whiteoil, 527, 531.
Wholesale Licences, 1046–1048.
Wholesale Prices, 873, **888–887**, 890, 895.
Wholesale Trading, 647–648, 651.
Whooping-cough, 84, 88, 100, 102, 106, 107, 114, 121.
Widowed Persons, Numbers of, 48.
Widowers, Remarriages of, 68, 70.
Widows—

Benefits, 176, **180–181**, 195.
Remarriages of, 68, 70.
War Pensions, 197–205.

Wills Administered by Public Trust Office, 1035–1037.

Wine, Consumption of, 637.
Wine, Duty on, 318.
Wine Licences, 1046.
Withdrawals from Savings-banks, 777–781, 1101.
Wives, Aggregation of Income, 848.
Wives, Allowances in Respect of, 178–206.
Women—

Army Corps, Royal, 240, 242.
Auxiliary Air Force, 243, 244.
Deaths of, in Childbirth, 87, 88, 92–93, 101, 106, 107, 114.
Eligible for Parliament, 16.
Employed in Factories, **556–557**, 966–968, 971–972, 974–975.
Nationality Laws, *re*, 31.
Naval Service, 238.
Of Child-bearing Ages, 56–57.
Offences by, 222.
Police, 233, 234.
Wage-rates of, 558–560, **902–908**, **936**.
Working-conditions of, 923, 925, 927.
Working-hours of, 911–913.

Woodpulp, Production of, 513–514.
Wool, 345, 430, **442–444**, **484–485**, 573, 909.

Capital Account, 452.
Commissions, 439, 442–443.
Export Price Index, 887, 889.
Exports of, **276–278**, **280**, **285**, **292**, **293**, 334, 1091.
Financing Purchase of, 274.
imports of, 304.
Levy, 320, 485.
Marketing of, 275, **442–443**.
Prices for, 443–444.
Retention Moneys, 452, 658.
Used at Local Mills, 485, 578.
Woollen Mills, **578**, 768.

Workers' Compensation, 953–958, 997–1001, 1053.

Insurance, 824, **838–840**.

Workers' Educational Association, 172.
Working Conditions, 921–935.
Working Conditions in the Government Service, 934.
Working Proprietors, 971–972.
Working-days Lost Through Industrial Disputes, 988–996.
Working-hours, 570–571, 911–913, 923–925, 927, 930, 932.
Wrecks, 338.

X

X-ray, 125.

Diagnostic Services, 192, 196.
Examinations, 112, 192.

Y

Yields—

Butterfat, 490.
Crops, 463, 464, **468–473**, 1088.
On Market Prices of Shares, 894.

Youth Centres, 161, 969.
Youth—

Wage-rates of, 904, 907–908, 912.
Working-conditions of, 923, 925, 927.

Z

Zinc, 548.
Zoology, 14.