Nuclear aftermath PEOPLE in New Zealand would suffer from traumatic feelings after a nuclear war in the Northern

Many would have strong forebodings of death even though everyone was alive and well and

everything appeared normal.

In the first few weeks after a nuclear war New Zealanders would experience severe psychological pressures associated with loss and fear though physically they would be scarcely touched by nuclear radiation.

The destruction of so much of humanity, the deaths of millions of people in combatant countries and the abrupt loss of ties with people overseas would overwhelm many with feelings of loss and dislocation.

This is the picture of life painted in the Planning Council book New Zealand After Nuclear War, published last week.

How people would react to a cataclysmic disaster which despite the lack of immediate personal danger will change their whole way of life is unknown.

In natural disasters such as the recent Bay of Plenty earthquake people respond, contrary to popular belief, with a re-markable degree of self-control and quick adaptation to changed

But with technological catastrophes such as chemical spills or nuclear plant accidents such as that of Three Mile Island or Chernobyl people respond in a much more unpredictable way than to natural disasters.

The strongest effect of the Three Mile Island accident in 1979 was demoralisation leading individuals to feel helpless and

The first concern after a Northern Hemisphere nuclear exchange will be to ensure that family members are safe and together, preferably in their own homes where they can decide together what they will do next.

The second immediate concern will be to seek immediate and detailed information about the nuclear war overseas, about victims and about preventative measures that can be taken.

There is no certainty that New Zealand will not be a target.

Those living in cities or in other potential target areas may want to flee to the countryside.



munities with access to prod-

uctive land to grow food and with

silience to the crisis.

stricted quite quickly.

exploded in Australia.

temperatures.

months if nuclear weapons were

Bread might soon be in re-

grown because of the cooler

climate. The reports predict a 3

degree Celsius drop in average

Rural areas and Maori com- port markets overseas destroyed overnight, there would be huge stocks of meat, cheese, milk stronger communal organisa- powder, butter and apples available for domestic use.

tions are likely to show more re-In cities and towns it would For many there may be a conmake sense for people to use their sections to grow more vegeflict between meeting work obtables since they will eventually ligations and staying with their become an important part of the families. Absenteeism could daily diet. But ensuring adequate supplies of seed would be difplague essential industries such as food distribution and transficult in the first year after a No one is likely to starve in the post-nuclear New Zealand,

Health problems would emerge but after a few weeks it though the variety and amount of would be the realisation that peofood available is likely to be reple would have to survive and sharply cut supplies of diesel without almost all modern medi-Radioactive fallout is unlikely cines that would be the main to be of consequence for crops Most medicine supplies and stock except milk, which would probably be too conwould last only three to six

taminated to drink for two months. Clean water would be a problem with stocks of chlorine used to purify water lasting only six duced supply as less wheat could

Sewage could become a serious health problem if pumps or electricity supplies failed. Open toilets which would have to be With New Zealand's food ex-dug in the backyard could lead to

stomach disorders and the spread

If there were any high bombs set off over Australia the electromagnetic pulse that would reach New Zealand in a split second could effectively wreck electrical communication and transport systems, though people would be left untouched unless they happened to be holding a long wire where the pulse could be magnified into a severe electrical charge

It would also render the Marsden Point refinery and the Motonui synfuel plant inoperable and petrol.

The loss of modern transport systems would see the country revert to sail, horse, bicycle and

Perhaps as traumatic as news of the war itself, the economy would be so changed by the ending of all exporting and importing that up to 50 per cent of people would become unemployed. This would be a catastrophic depression, four times worse than

Radioactivity not main threat

HE most surprising con-clusion of the authors of New Zealand After Nuclear War is that radioactive fallout would not be a major threat to health after such a war.

This flies in the face of a longheld belief that radiation would be the main effect felt after a arge-scale atomic war.

The authors of the Planning Council book make their case like

They assume that nuclear war is largely confined to the Northern Hemisphere and that New Zealand is not a target but Australia receives up to eight

New Zealand would be protected against radiation damage by three factors - the huge distance from the expected main theatres of war in Europe, the Soviet Union and North America; the rapid decrease in the radioactivity in fallout over time; and the limited amount of radioactivity which could cross the atmosphere but will remain meteorological barrier of the within the hemisphere.

(a measurement of how much ra- enough into the upper atdiation energy is absorbed) in a mosphere to be capable of being few days would almost certainly carried across the tropics. But in kill most humans. A dose of 350 rem to 450 rem would kill 50 per cent of healthy adults over a three-day period. Levels of 100 rem or more would only occur in New Zealand if it was a target.

An hour after an explosion the radiation dose could be 1000 rem an hour. After two hours the rate could have dropped to 400 rem an hour. After two days it would be down to 10 rem an hour and after a month it would only be 0.4 rem an hour.

When nuclear bombs go off at ground level, sending huge amounts of radioactive material into the air, about 50 per cent will fall in the local area within two days. A further 35 per cent of fallout will penetrate the lower

painkillers and 'high tech' adds, extraction by forceps usual be the only solution treth and gum problems. Relia and, prevention of disease and infection, and spread of BTDs would accur as soon as stockplas were exhalsted unless we develop, stills to manufacture drugs and medicines durselves.

Only 13 per cent of radio-A radiation dose of 600 rems active fallout can penetrate high fact about 75 per cent of this high level global fallout would drop in the Northern Hemisphere.

The average radiation dose received in the Southern Hemisphere would be almost 20 times lower than the northern hemisphere. Under worst case estimates four to six rems of radiation would be received in total over a 50-year period - a smaller amount than the natural background radiation received from rocks, soil and space (10

But though New Zealand would not suffer radiation sickness or immediate death there would be an estimated 1 per cent rise in cancers over the following 70 years.

Pain, death, disease wake of bomb

ORE unwanted pregnancies and more toothache would be just two health consequences from being cut off from imported medicines, on which New Zealand is almost 100 per cent dependent.

More diseases, more pain and more deaths would follow a return to 19th centurytype medicine.

Antibiotics would quickly run out, leading to high rates of infection after surgery, more deaths and an increase in sexually transmitted dis-

Without vaccines New Zealand would see a gradual return of infectious diseases such as polio, tuberculosis, diptheria and measles. Nor would there be protection against exotic diseases such as cholera or plague which refugees might introduce. More deaths could be expected, particularly among children

Sufferers of asthma, diabetes and epilepsy would be especially vulnerable as medicines for their chronic conditions ran out. Few drugs would be available for cancer and heart patients, as well as those with psychlatric disorders.

Without painkillers there would be more sufferers among acute and terminally ill people, though New Zealand might eventually be able to produce morphine from opium poppies.

No oral contraceptives and a reduction in supply of barrier contraceptives such as condoms and diaphragms would probably lead to more unwanted pregnancies and abortions.

Lack of dental supplies would make present dental care levels impossible. More toothaches would be experienced and more teeth would need to be extracted - without recourse to painkillers.