This article is essentially an account of the way in which wan is unintentionally contaminating environment. This is a world-wide problem, but for the most part the scope is limited situation in Myanmar. Rice and to the fish are staple foods in Myanmar and fish production is intimately connected with paddy cultivation. Agricultural land, being inundated during the months of the rainy feeding and season provides extensive growing ground for the annual brood of fish. There is no doubt that the fish harvest in some regions is as important as harvest for it provides the cultivator a welcome addition to his income with the village Maric h protein, vitamins and calcium in their diet.

Fish are not only the main source of protein for human consumption but also the presence of fish in paddy fields results in an increase yield of paddy sometimes as much as 15 per cert. This is due to the fact that fish eat large quantities of insect. larvae, algae and weeds WOFES, which are either directly or indirectly injurious to paddy. Therefore, there is much need to take effective measures for the development and conservation 111 fresh-water resources.

Pesticides are indispensable modern farming. However, accidental damage to fish as a result of use of pesticides has come to constitute an important problem. People in Myanmar often apply pesticides quite indiscriminately and carelessly. Ironically this practice is making even relatively less harmful

pesticides more destructive.

Fish are very much susceptible to pesticides. The author, in his research work on the study of insecticidal pollution of water in 1976, found that Clarias batrachus (Nga-Khu) had been killed within 24 hours when placed in water containing as little as 0.0004; parts per million of Endrin. The young or smaller fish down to smallest fry are most sensitive to the pesticides than the older ones. Therefore, known spawning, breeding and nursery areas may require special care and caution. Pesticides may find their way into fish-hearing water either accidentally

as a result of sprays, spills, washing used containers from the adjacent ground, or deliberately as when they are used for the control of aquatic weeds, vectors diseases or pests of irrigated crops. Large scale or repeated application of pesticides may cause considerable contamination to great distances down the stream. Unusual rain fall necessitates retreatment of many areas. Each rain washes down more pesticides into the streams killing more fish.

To preserve and maintain the distribution and abundance of fish, toxic substances must not be present in concentrations that are acutely toxic to fish. Hence, if these pesticides are to be used without endangering fisheries the essential data is to measure first their toxicity to fish. Since the degree of toxicity to fish in water is usually unpredictable by chemical experimental determination by appropriate biological assay methods using fish as bio-indicator is usually applied. bio-assay results on the acute toxicity of pesticides to fish may help the farmer to maintain pest control efficiently within the limits safe for fisheries.

Investigation on the acute toxicity of commonly used ten different modern pesticides to common carp Cyprinus carpio Shwe-war-nga-gin) _i Was undertaken by the author. The experimental results showed that EPN 45% EC was the most toxic of the pesticides tested with the 96-hour Median Tolerance Limit(TLH: value of 0.27 ppm. Ninety-six hour TLK values of Padan 50% Sp. Brestan 10% WP, Furadan 3-G Elsan 50x EC, Sumithion 50x EC, Kitazin 40x EC and Diazinon 40% EC ranged between 0.6 ppm and 5.2 ppm Kitazin 17% G and Topsin 70% WP had the 96 hour TLM values of 14.0 ppm and 34.0 ppm respectively.

Median Tolerance Limit values of pesticides were also computed into rank A, B and C. A-ranked pesticides such as Kitazin 17% G and Topsin 70% WP were not toxic to fish at the normal application rate and could be used practically without any special precautions. Padan 50% SP. Brestan 10% WP, Furadan 3-G Elsan 50% EC, Sumithion . 50x EC Ritarin 40x EC and Diazinon 40% EC were classified into rank B. They would not constitute a hazard to

shortages in fuel and timber and destroy. plant and animal life. Run-off will quicken and soil erosion will. accelerate, resulting in desertification and drought.

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B. Water

Fresh water

Fresh water resources include rivers, lakes and groundwater. The hydrological cycle must be maintained to meet the needs. of an increasing population for safe drinking water. The supply of safe and clean drinking water is decreasing, and one of the reasons is that many of the lakes and rivers are being polluted by industrial and human wastes.

Oceans

Oceans cover 70 % of the earth's surface and their effect on weather and climate is a recognized fact. They not only provide many varieties of fish which are a source of food for the world's population. they are also rich in mineral resources, among which oil and gas are the most they have become the important. But, duaping ground for the world's wastes. The oil spilled from tankers also adds to the pollution of the oceans. Pollution has led to the destruction of marine life such as seais, turtles and various kinds of fish.

C. The Atmosphere

Air pollution

Air pollution in cityes industrial areas have long been recognized as a hazard to health. Industria; plants release sulphur dioxide and nitrogen oxidea into the atmosphere, where they interact with moisture and fall as acid Advanced technology and industrialization have caused the concentrations of gases such as carbon dioxide, methane. chlorofluorocarbons (CFCs) in the atmosphere : to increase. The increase of these gases result in a global warming of the earth and depletion of ozone in the stratosphere.

2. Greenhouse effect.
The impact of global warming due to the buildup of carbon dioxide, methane and nitrous oxide in the atmosphere is known as the greenhouse effect. The increase in the. earth's surface temperature will result in rising sea levels and changes in climate; which in turn will have a severe effect on agriculture.

Ozone depletion Industrial uses have increased the atmospheric concentration of CFCs, halons and methane gases which cause the destruction of ozone in the stratosphere. The increase of these gases are responsible for the ozone hole over Antarctica, and continuing decline of stratospheric ozone will have three different kinds of effects - biological, chemical and climatological. Depletion of the ozone layer which protects us from excessive ultraviolet radiation is caused mainly by human use of CFCs and aerosols.

Public info; tion

iB ipportant to provide information to the public, so that people will become aware of environmental change and the resulting problems, which will have severe effects on health, agriculture and living conditions. Environmental problems activities. caused by human technological processes and misuse of resources. We are mainly responsible for the global environmental change and it is up to us to prevent further deterioration of the environment.

BOOKS & ARTICLES ON **EXAMPLE STATES**

As at 1st November 1990, 53 Publications on environment are evaluable at the library of the Department of Meteorology and Hydrology out of which 34 were received from the Ministry of Foreign Affairs.

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