

Abstracts on Pesticide Studies in China

Study on Screening of the Priority Monitoring Pesticides

Jiang Xiliu (Nanjing Institute of Environmental Sciences, NEPA)

Abstract In the paper, hundreds of the pesticides being used were studied according to their yield dosage of application environmental toxicity, environmental chemistry, environmental biology. On the basis of the environmental risk assessment, 10 pesticides which the amount of application is large, the toxicity is high, the environmental pollution is serious, were considered as the first priority monitoring pesticides in China. Therefore, if the pollution of the priority monitoring pesticides can be controlled, the problem of pesticide pollution is controlled in general.

Keywords: pesticides; priority monitoring; risk assessment.

Published in: *Advances in Environmental Science*, Vol.1, No.6, 1--15, 1993.

Chemical behavior and risk assessment of four pesticides in soil and water

Jiang Xiliu ,Hua Xiaomei (Nanjing Institute of Environmental Sciences, NEPA of China)

Abstract The degradation of pesticides in the environment is a very important index in evaluation the ecological risk of pesticides ,the degradation of pesticides varies with their physico-chemical properties. In this paper, four pesticides including methyl -ISP[N-isopropyl-o-(2-isopropoxyloxo-carbonyl)phenyl phosphorothia midoate]; monocarboxoldehyde[N-(2,4-dimethylbenzyl-N-methyl amidine) hydrochloride]; pyrimyxthion[o,o diethenyl-o-(2-methoxy-4-methyl pyrimidine-6-)phosphorothioate] which are three effective insecticides used to control many pests of paddy field and cotton field and propachlor[2-ethenyl-N-(ethongmethyl)-2-monochloroacetamide] which is an effective herbicide used to control annual weeds, were selected and their degradation dynamics in soil and water under different conditions were studied.

Keywords : pesticide ; chemical behavior; soil and water ; risk assessment.

Published in: *Journal of Environmental Sciences* Vol. 7, No.2, pp.157-162, 1995

Strengthening Environmental Supervision and Management of Pesticides -- an Imperative Task

Jiang Xiliu et al (Nanjing Institute of Environmental Sciences, SEPA, Nanjing 210042)

Abstract By analyzing the status quo of eco-environment pollution and hazards caused by the application of pesticides in China, it has been revealed that the lack of essential environmental supervision and management of pesticides is the main cause of serious pesticide environmental pollution. Consequently, it brooks no delay that specific policies and measures should be worked out for controlling pesticide environmental pollution in China.

Key words : pesticide , pollution, accident ,hazard, status quo, environmental management

Published in: *Rural Eco-Environment*, 16(2):35--38, 2000

Characteristics and Control Countermeasures of Pesticide Pollution and Its Damage on Environment in China

Hua Xiaomei , Jiang Xiliu (Nanjing Institute of Environmental Sciences, SEPA, Nanjing 210042)

Abstract : This paper summarized the present status and main characteristics of pesticide pollution and damage on environment with respect of acute damage and long -term and potential effects. the causes of environmental damage resulting from pesticides were analyzed. Suggestions that pesticide product structure need to be adjusted and that environment management for pesticides needs to be enhanced were proposed as an important

approach for current effective control of the environmental damage.

Key words: pesticide; environmental damage; characteristics; factor; control countermeasure.

Published in: *Research of Environmental Sciences*, Vol.13, No.3, 2000