



NONPESTICIDE METHODS FOR CONTROLLING DISEASES AND INSECT PESTS

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The effective control of pests and diseases is critical to the growth of healthy crops and enhancement of agricultural productivity. The most common method of pest control in many APO member countries is the use of chemical pesticides, because it is cheap and often very effective.

However, the effectiveness of chemical pesticides is associated with negative impacts, such as the acquisition of pest resistance to the chemicals, secondary pest outbreaks, human and livestock health hazards associated with the use of chemicals, and environmental degradation. Because of such concerns, there is a great deal of interest in applying nonpesticide control methods. In response to this situation, the APO organized the seminar on “Nonpesticide Methods for Controlling Diseases and Insect Pests” from 10 to 17 April 2002 in Japan to review the present use of nonpesticide methods for controlling crop pests in member countries, identify issues in promoting their use, and formulate measures to address them.

This volume contains a summary of the seminar, four selected resource papers, and 12 selected country reports. The four resource papers and their authors are:

- 1) “Some Non-Pesticide Methods for Managing Crop Insect Pests-Present Status, Issues, and Strategies” by Dr. Peter A. C. Ooi, Integrated Pest Management Expert, FAO-EU IPM Programme for Cotton in Asia, FAO Regional Office for Asia and the Pacific in Bangkok, Thailand;
- 2) “Non-Pesticide Methods for Sustainable Crop Disease Management in the Asia-Pacific Region: Present Status, Issues, and Strategies” by Dr. D. G. Hunter, Team Leader, Taro Genetic Resources: Conservation and Utilisation (TaroGen) Project, Secretariat of the Pacific Community, Fiji;
- 3) “Biological Control of Vegetable Pests with Natural Enemies” by Dr. Eizi Yano, Chief, Biological Control Laboratory, National Agricultural Research Center, Ibaraki, Japan; and
- 4) “Non-Pesticide Methods for Managing Crop Weeds in the Asia-Pacific Region-Allelopathic Cover Crops” by Dr. Yoshiharu Fujii, Research Leader, Chemical Ecology Unit, National Institute for Agro-Environmental Sciences, Ibaraki, Japan.

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