

ORGANIZATION OF TROPICAL AMERICAN NEMATOLOGISTS

ORGANIZACION DE NEMATOLOGOS DE LOS TROPICOS AMERICANOS

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Israel - 1	U.S.A. - 119	
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TOTAL MEMBERSHIP - - - 349

MODELING FOR PEST MANAGEMENT

edited by

R.L. TUMMALA, D.L. HAYNES, B.A. CROFT

**Departments of Entomology and Systems
Science**

Michigan State University

1976, 247 pages US \$9.85

In accordance with the decision by a Soviet/United States commission, a joint conference was held on October 15-17, 1974, at Michigan State University, East Lansing, under the terms of the Soviet/United States agreement on cooperation in the field of environmental protection. Some 70 scientists participated in this symposium which included a presentation of eight formal papers by the Soviet delegation and 18 by U.S. scientists. In all, these scientists represented 40 different private, federal and state organizations and included general biologists, chemists, toxicologists, mathematicians, system scientists, entomologists, plant pathologists, nematologists and weed scientists.

The main thrust of the symposium was the discussion of the use of models in making long- and short-term predictions of insect, phytopathogen and weed populations as they related to crop losses. Such models provide not only descriptions of diverse ecological systems, but also provide the framework to systematically summarize past information about crops and their pests and also provide a concise framework to analyze their responses to alternative control measures. Several modeling programs developed on crops common to both countries were presented. Detailed methodologies for studying and expressing the interaction among pathogens, insects, weeds, plants and the environment were discussed. Other key features of the program were highlights on current levels of knowledge and research being utilized in pest management in each respective country and a discussion of ways to cooperatively exploit the pest management technologies developed in the Soviet Union and the United States with an objective of more effectively predicting pest problems and thus minimize crop losses and hazards to the environment.

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DR. R. L. TUMMALA
DEPARTMENT OF ENTOMOLOGY
MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN, 48824, U.S.A.

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