

NEW!

Rice insect pests and their management

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IN AGRICULTURAL SCIENCE



KEY FEATURES

- Covers almost 100 species of the most important insect pests affecting rice cultivation
- Brings together the key research on each pest, including description and biology and effects on rice plants
- Written by a team of leading entomologists with experience of rice pests in Asia, Africa, the United States and Latin America
- Includes over 150 photographs and images

DESCRIPTION

The rice plant is an ideal host for many insect species. All of the plant parts are vulnerable to insect-feeding from the time of sowing till harvest. There are over 800 insect species damaging rice in one way or another, although the majority of them do very little damage. In tropical Asia only about 20 species are of major importance. In Africa, 15 species of insects are considered major pests of rice and in the Americas about 20 species are considered major pests.

To develop effective pest management strategies, it is essential to properly identify and to understand the biology and ecology of insect pests and the arthropods that help regulate their populations. This book effectively utilizes the unique knowledge and expertise of leading rice entomologists from Africa, Asia and the Americas to provide the first global coverage of rice insect pests. The discussion of each pest includes geographical distribution, plant hosts other than rice, description and biology, plant damage and ecology.

What's inside

The insects discussed are categorised based on feeding types:

1. Root and stem feeders
2. Stem borers
3. Rice gall midges
4. Leafhoppers and planthoppers
5. Foliage feeders
6. Panicle feeders

The book concludes with a discussion of integrated management of insect pests.

Author biographies

Professor E. A. "Short" Heinrichs is Research Professor in Entomology at the University of Nebraska-Lincoln, USA. Professor Heinrichs is Secretary General of the International Association for the Plant Protection Sciences (IAPPS) and Asia Program Manager for the Feed the Future Innovation Lab for Integrated Pest Management. He is former Head of Entomology at the International Rice Research Institute (IRRI).

Dr Francis E. Nwilene is Regional Representative for The Africa Rice Center (AfricaRice), based in Nigeria. Dr Nwilene was formerly head of entomology at the West African Rice Development Association (WARDA) and Vice-President of the African Association of Insect Scientists (AAIS).

Professor Michael J. Stout is L. D. Newsom Professor of Integrated Pest Management at Louisiana State University, USA. Professor Stout has published widely on rice insect pests in the United States.

Dr Buyung A. R. Hadi is an Entomologist at the International Rice Research Institute (IRRI), The Philippines. Dr Hadi is an internationally-acknowledged expert on rice insect pests in Asia.

Dr Thais Freitas is a researcher at the Universidade Federal Rio Grande do Sul, Brazil and former agronomist at the Instituto Rio Grandense do Arroz (IRGA) in Porto Alegre, Brazil.. Her research has focussed on insect pests of rice in Latin America.

Biblio information



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