

Rice Insect Pests And Their Management: Burleigh Dodds In Agricultural Science 50

Like many other agricultural crops, rice is also prone to various insect pests that can cause significant damage to the crop yield. Insect pests not only reduce the overall productivity of rice but also result in a significant economic loss for the farmers. To combat these pests effectively, it is crucial to understand their characteristics, behavior, and management strategies.

One highly influential book that focuses on this subject is "Rice Insect Pests and their Management" authored by Burleigh Dodds in Agricultural Science 50. This book provides valuable insights into the biology, ecology, and management of rice insect pests, aiding farmers, researchers, and students in understanding and implementing effective pest management techniques.

With the use of HTML format, this article will delve into the key aspects covered in this book, highlighting the importance of rice insect pest management and its relevance in modern agricultural practices.



Rice insect pests and their management (Burleigh Dodds Series in Agricultural Science Book 50)

by Philip Hasheider(1st Edition, Kindle Edition)

★★★★☆ 4.1 out of 5

Language : English
File size : 69405 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 542 pages



Understanding Rice Insect Pests

Rice crops are susceptible to various insect pests, including stem borers, leaf folders, rice hispa, brown plant hoppers, white-backed plant hoppers, rice bugs, and armyworms. These pests not only cause direct damage to the rice plants but can also transmit diseases, resulting in further crop devastation.

Each insect pest has its own unique characteristics, behavior, and life cycle patterns, which are thoroughly detailed in the book "Rice Insect Pests and their Management." Furthermore, the book provides detailed information on pest identification, including visual cues, morphology, and the damage caused by each pest.

Effective Pest Management Strategies

To ensure maximum crop yield and minimize the economic losses caused by insect pests, the implementation of effective management strategies is crucial. The book delves into integrated pest management (IPM) approaches, including cultural, physical, biological, and chemical control measures.

Farmers will find valuable information on cultural practices, such as proper field preparation, selection of resistant varieties, and optimal planting times. The book also emphasizes the importance of monitoring and early detection of insect pests to implement appropriate control measures at the right time.

Biological control methods, including the use of natural enemies and beneficial insects, are extensively discussed in the book. These methods not only prove to

be effective in controlling insect pests but also have minimal adverse effects on the environment and human health.

The use of chemical control measures is also addressed in the book, with an emphasis on proper pesticide selection, safe application practices, and adherence to local regulations. The aim is to strike a balance between pest control efficacy and minimizing potential environmental impact.

Burleigh Dodds in Agricultural Science 50: The Key to Successful Pest Management

"Rice Insect Pests and their Management" is a comprehensive resource that aims to equip farmers, researchers, and students with the necessary knowledge and skills to effectively manage rice insect pests.

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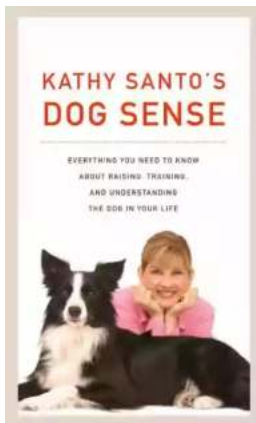
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The rice plant is an ideal host for many insect species. All of the plant parts are vulnerable to insect-feeding from the time of sowing till harvest. There are over

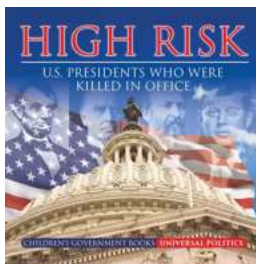
800 insect species damaging rice in one way or another, although the majority of them do very little damage. In tropical Asia only about 20 species are of major importance. In Africa, 15 species of insects are considered major pests of rice and in the Americas about 20 species are considered major pests.

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.



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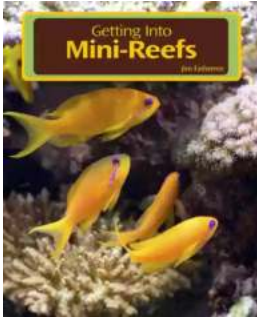
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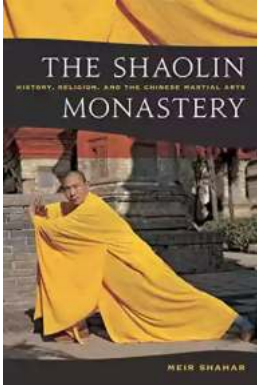
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