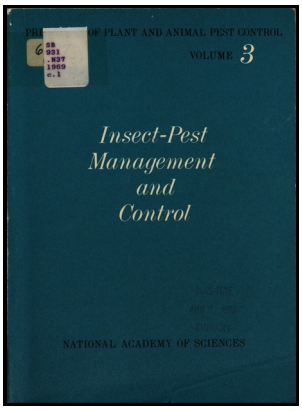
Insect ecology and population management: readings in theory, technique, and strategy.

MSS Educational Pub. Co. - New Integrated Pest Management Paradigm for the Modern Age



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Notes: Includes bibliographies.
This edition was published in 1972

Filesize: 31.105 MB

Tags: #Monographs #in #Population #Biology

ECOLOGICAL BASIS FOR CONTROL

In this study, we showed a theoretical case of pest population involving IPM strategies, with the addition of spatio-temporal scales and ecological assumptions to illustrate how the combination of theoretical ecology and pest management can provide interesting and important results.

Integrated Pest Management

Agroecosystems, or crop systems, are special situations; variations here are caused mainly by the nature of the crop environment, the host plants and arthropod species that are present, space and time boundaries, and the distri- bution of a species in a crop area during the rise and fall of a local epidemic. Population dynamics of agricultural and forest insect pests.

SciELO

Plowing is also an important control option to destroy the crop residue and expose the soil-inhabiting stages of several vegetable pests. Pest Management The concept of pest control has changed to pest management over the years knowing that a balanced approach to managing pest populations to levels that do not cause economic losses is better than eliminating or eradicating except for newly introduced invasive pests , for environmental and economic reasons. The most important ability of a modeler is to correctly decide on a suitable level of complexity to be applied in a system.

A modelling methodology to assess the effect of insect pest control on agro

Key words: Theoretical ecology, integrated pest management, mathematical model RESUMO A modelagem ecológica é uma ferramenta importante para a investigação de padrões de comportamento dinâmico em populações, interações tróficas e também em ecologia comportamental. The fly population was suppressed using the live-bait technique in the agricultural areas of the northern half of the island that had high cattle densities and by deploying insecticide-treated blue cotton targets in the dense forested areas mainly in the south.

Sterile Insect Technique

According to the reference materials, reference standard values x 0 of each factor are listed in and ; and in accordance with the experimental results, the actual values of the indicators x i of comprehensive cost and comprehensive profit for three strategies are also presented in and. High plant density reduced root maggot Delia spp. Each of them may provide a certain level of control, but their additive effect can be significant in preventing yield losses.

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