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### How Sterile Insect Technique Helps Fighting The Spread of Mosquitoes and Diseases

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Sterile Insect Technique by FAO IAEASterile Insect Technology for Navel Orangeworm Control Field Trials Begin Sterile Insect Technique Equipment Pest Management through Radiation Rechnology - Principles (CH\_24) Using Nuclear Technology to Control Pests Sterile Medfly Rearing and Release Using Nuclear Technology to Tackle Insect Pests CRISPR Technology Developed to Control Pests Sterile Insect Technique Principles And

The sterile insect technique (SIT) is an environment-friendly method of pest control that integrates well into area-wide integrated pest management (AW-IPM) programmes. A first of its kind, this book takes a generic, comprehensive, and global approach in describing the principles and practice of the SIT.

Sterile Insect Technique: Principles and Practice in Area ...

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Sterile Insect Technique: Principles and Practice in Area ...

The sterile insect technique (SIT) is a method of biological insect control, whereby overwhelming numbers of sterile insects are released into the wild. The released insects are preferably male, as this is more cost-effective and the females may in some situations cause damage by laying eggs in the crop, or, in the case of mosquitoes, taking blood from humans. The sterile males compete with wild males to mate with the females. Females that mate with a sterile male produce no offspring, thus redu

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Sterile insect technique - Wikipedia

It is a challenge to bring together all relevant information about the sterile insect technique (SIT) and its application in area-wide integrated pest management (AW-IPM) programmes; this book is the first attempt to do this in a thematic way. Since SIT practitioners tend to operate in the context of only one insect pest species, it was also a challenge for authors to develop and write their ...

Sterile Insect Technique: Principles and Practice in Area ...

In principle, the sterile insect technique (SIT) is applicable to controlling a wide variety of insect pests, but biological factors, interacting with socio-economic and political forces, restrict...

(PDF) Sterile Insect Technique Principles and Practice in ...

The sterile insect technique (SIT) is a control strategy that uses radiation to produce genetic mutations or chromosomal breaks to generate sterile adult insects. These sterile insects are released into the wild to suppress and eventually eradicate wild pest populations (reviewed in Reichard, 2002).

Sterile Insect Technique - an overview | ScienceDirect Topics

Sterile Insect Technique Principles and Practice in Area-Wide Integrated Pest Management Edited by V. A. DYCK, J. HENDRICHS and A.S. ROBINSON Vienna, Austria. Joint FAO/IAEA Programme . A C.I.P. Catalogue record for this book is available from the Library of Congress. ISBN-10 1-4020-4050-4 (HB)

Sterile Insect Technique - International Atomic Energy Agency

The sterile insect technique (SIT) is an environment-friendly method of pest control that integrates well into area-wide integrated pest management (AW-IPM) programmes. A first of its kind, this book takes a generic, comprehensive, and global approach in describing the principles and practice of the SIT.

Sterile Insect Technique | SpringerLink

One such tactic could be the sterile insect technique (SIT), which relies on the production and release of sufficient sterile males to induce sterility in the wild females which, over time, causes the target population to decline . The SIT has no regulatory requirements and the technique would be combined with others as part of an area-wide integrated pest management (AW-IPM) approach to reduce the vector population below the threshold required for disease transmission.

Back to the future: the sterile insect technique against ...

The sterile insect technique (SIT) is an environment-friendly pest control technique with application in the area-wide integrated control of key pests, including the suppression or elimination of introduced populations and the exclusion of new introductions.

STERILE INSECT TECHNIQUE: A MODEL FOR DOSE OPTIMIZATION ...

Sterile Insect Technique . Principles and Practice in . Area-Wide Integrated Pest Management . Published by Springer in 2005 × Close ...

DIR-SIT - SIT\_Glossary

The sterile insect technique (SIT) is a species-specific form of birth control imposed on the pest population. It is a powerful tool for "mopping up" sparse pest populations, and is most efficient when applied as a tactic in a system deployed on an area-wide basis.

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