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Queensland Fruit Fly Managing Queensland Fruit Fly in Your Home Garden *Fruit Fly Pests* **Fruit Flies and the Sterile Insect Technique** *Biology and Management of Bactrocera and Related Fruit Flies* **Notification of a Queensland Fruit Fly Outbreak at Cobram East** Notification of Queensland Fruit Fly Outbreak at Karadoc *Guideline for packing, shipping, holding and release of sterile flies in area-wide fruit fly control programmes* **Fruit Fly Fighters** **Economic Fruit Flies of the South Pacific Region** *Insect Pests of Fruit and Vegetables* **Area-Wide Management of Fruit Fly Pests** **Trapping and the Detection, Control, and Regulation of Tephritid Fruit Flies** **The Australian Handbook for the Identification of Fruit Flies Version 3. 1** *Leaflet Fruit Flies* The Melon Fly *Fruit Flies of Economic Significance* *Area-wide Integrated Pest Management* Fruit Flies (Tephritidae) *Guidance for Packing, Shipping, Holding and Release of Sterile Flies in Area-wide Fruit Fly Control Programmes Of Peaches and Maggots* Management of Fruit Flies in the Pacific *Annual Report - Commonwealth Scientific and Industrial Research Organization, Division of Entomology* *The Bollworm* **Fruit Flies (Tephritidae)** **Fruit Fly Fighters** **Fruit Flies and the Sterile Insect Technique** *The Distribution and Host Plants of Fruit Flies (Diptera Tephritidae) in Australia* **Australian Journal of Zoology** *The Mediterranean Fruit Fly in Hawaii* **Spray Oils** **Beyond 2000 Pest Control: Operations and Systems Analysis in Fruit Fly Management**

Contribution Alternatives to Methyl Bromide Agroecological Crop Protection Areawide Pest Management Minutes and Votes and Proceedings of the Parliament, with Papers Presented to Both Houses *Sterile Insect Technique Fruit Fly Research and Development in Africa - Towards a Sustainable Management Strategy to Improve Horticulture*

Fruit Flies (Tephritidae) Mar 09 2021 Fruit flies (Diptera: Tephritidae) are among the most destructive agricultural pests in the world, eating their way through acres and acres of citrus and other fruits at an alarming rate and forcing food and agriculture agencies to spend millions of dollars in control and management measures. But until now, the study of fruit flies has been traditionally biased towards applied aspects (e.g.,

management, monitoring, and mass rearing)-understandable, given the tremendous economic impact of this species. This work is the first that comprehensively addresses the study of the phylogeny and the evolution of fruit fly behavior. An international group of highly renowned scientists review the current state of knowledge and include considerable new findings on various aspects of fruit fly behavior, phylogeny and related subjects. In the

past, the topics of phylogeny and evolution of behavior were barely addressed, and when so, often superficially. Fruit Flies (Tephritidae): Phylogeny and Evolution of Behavior is a definitive treatment, covering all behaviors in a broad range of tephritids. This volume is divided into eight sections: Queensland Fruit Fly Oct 28 2022

Fruit Flies (Tephritidae) Sep 03 2020 Fruit flies (Diptera: Tephritidae) are among the most destructive agricultural

pests in the world, eating their way through acres and acres of citrus and other fruits at an alarming rate and forcing food and agriculture agencies to spend millions of dollars in control and management measures. But until now, the study of fruit flies has been traditionally biased towards applied aspects (e.g., management, monitoring, and mass rearing)-understandable, given the tremendous economic impact of this species. This work is the first that comprehensively addresses the study of the phylogeny and the evolution of fruit fly behavior. An international group of highly renowned scientists review the

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Fruit Fly Management Jan 27 2020 These are the proceedings of an Advanced Research Workshop (ARW), sponsored by the NATO Science Panel, entitled "Pest Control: Operations and Systems Analysis in Fruit Fly Management". The ARW was held in Bad Windsheim, Germany during the week of 5 August 1985. The purpose of the ARW was to bring together scientists who are interested in fruit fly problems, but who usually do not have an opportunity to speak with each other, for an intense week of interdisciplinary collaboration. In particular, the group present at the ARW contained a mix of biologists, field ecologists,

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mathematical modellers, operational program managers, economists and social scientists. Each group has its own professional meetings at which fruit fly problems are discussed, but the point of the ARW was to learn about the problem from the perspective of other fields, which are equally important for the ultimate management of the fruit fly problems. (A list of attendees follows this preface.) It appears that the ARW successfully met its objective of bringing together a group for interdisciplinary considerations of the problems; I hope that the proceedings do as well. The ARW was structured with formal lectures in the mornings

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and workshops in the afternoons. For the morning lectures, four different topics were chosen: 1) basic biology and ecology, 2) trapping and detection, 3) control and eradication, and 4) policy issues. Each morning, one lecture from each area was presented.

Spray Oils Beyond 2000 Feb 26 2020

Fruit Fly Fighters Feb 20 2022 The campaign to eradicate the papaya fruit fly from north Queensland has been widely acknowledged by international scientists as a significant technical achievement that equals any similar control program world-wide. Fruit Fly Fighters is a

highly readable and practical account of the whole campaign from 1995 when the papaya fruit fly was first discovered until 1999 when eradication was formally declared. Key aspects covered include: The emergency response; Campaign management; The growers' perspective; Monitoring, eradication, data management; quarantine, traffic control points; market access for fruit from infected areas; public relations; and research and development. The operating manuals and other reports are in a CD-ROM that accompanies this book. *Area-wide Integrated Pest Management* Apr 10 2021 Over 98% of sprayed insecticides

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and 95% of herbicides reach a destination other than their target species, including non-target species, air, water and soil. The extensive reliance on insecticide use reduces biodiversity, contributes to pollinator decline, destroys habitat, and threatens endangered species. This book offers a more effective application of the Integrated Pest Management (IPM) approach, on an area-wide (AW) or population-wide (AW-IPM) basis, which aims at the management of the total population of a pest, involving a coordinated effort over often larger areas. For major livestock pests, vectors of human diseases and pests of

high-value crops with low pest tolerance, there are compelling economic reasons for participating in AW-IPM. This new textbook attempts to address various fundamental components of AW-IPM, e.g. the importance of relevant problem-solving research, the need for planning and essential baseline data collection, the significance of integrating adequate tools for appropriate control strategies, and the value of pilot trials, etc. With chapters authored by 184 experts from more than 31 countries, the book includes many technical advances in the areas of genetics, molecular biology, microbiology, resistance management, and

social sciences that facilitate the planning and implementing of area-wide strategies. The book is essential reading for the academic and applied research community as well as national and regional government plant and human/animal health authorities with responsibility for protecting plant and human/animal health.

Leaflet Aug 14 2021

[Managing Queensland Fruit Fly in Your Home Garden](#) Sep 27 2022

[The Melon Fly](#) Jun 12 2021 Pp. 30.

Area-Wide Management of Fruit Fly Pests Nov 17 2021
Fruit fly (Diptera: Tephritidae) pests have a profound impact

on horticultural production and economy of many countries. It is fundamental to understand their biology and evaluate methods for their suppression, containment, or eradication. Area-Wide Management of Fruit Fly Pests comprises contributions from scientists from around the world on several species of tephritids working on diverse subjects with a focus on area-wide management of these pests. The first three sections of the book explore aspects of the biology, ecology, physiology, behavior, taxonomy, and morphology of fruit flies. The next two sections provide evidence on the efficacy of attractants, risk assessment,

quarantine, and post-harvest control methods. The fifth and sixth sections examine biological control methods such as the Sterile Insect Technique and the use of natural enemies of fruit flies. The seventh section focuses on area-wide integrated pest management and action programs. Finally, the eighth section examines social, economic, and policy issues of action programs aimed at involving the wider community in the control of these pests and facilitate the development of control programs. Features: Presents information on the biology of tephritid flies. Provides knowledge on the use of natural enemies of fruit flies for

their biological control. Includes research results on models and diets used for the Sterile Insect Technique. Reports developments on the chemical ecology of fruit flies that contribute to make control methods more specific and efficient. Reviews subjects such as Holistic Pest Management and Area-Wide Management Programs including social, economic, and policy issues in various countries. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/9780429355738>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Fruit Flies and the Sterile Insect Technique Jul 25 2022

This book is a continuation of the development of the Sterile Insect Technique (SIT) specifically designed for use against, and management of, fruit flies. Several factors indicate an increased use of the SIT against fruit flies within the next decade.

Australian Journal of Zoology Apr 29 2020
[Management of Fruit Flies in the Pacific](#) Dec 06 2020

Predations of fruit flies on a wide range of fruits and vegetables cause major economic losses throughout the world. This publication is a record of the papers presented at a regional symposium on the

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subject held in Fiji in October 1996.

Alternatives to Methyl Bromide Nov 24 2019
Economic Fruit Flies of the South Pacific Region Jan 19 2022

Fruit Fly Fighters Aug 02 2020 Fruit Fly Fighters is an account of the eradication of papaya fruit fly (*Bactrocera papayae*) from north Queensland from October 1995 when it was first discovered until eradication was formally declared in June 1999.

Fruit Flies Jul 13 2021 Fruit flies are enormously important economic pests, as California has learned over the past few years (remember the Mediterranean Fruit Fly?). The

problem is expected to get worse, and issues of both basic research and control measures are very important for this pest. This book is the edited, camera-ready proceedings of a recent international symposium on fruit flies of economic importance. It covers current knowledge of fruit fly physiology, genetics, morphology and behavior. It discusses action programs for controlling and using fruit flies in agronomy, as well as the problem of fruit flies in the fruit growing industry.

The Australian Handbook for the Identification of Fruit Flies Version 3. 1 Sep 15 2021

The Distribution and Host

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Plants of Fruit Flies (Diptera Tephritidae) in Australia May 31 2020

[Fruit Fly Research and Development in Africa - Towards a Sustainable Management Strategy to Improve Horticulture](#) Jun 19 2019 Horticultural sector presents many opportunities for economic development and improving livelihood of growers but several factors constrain production and limit the potential for trade of fruits and vegetables. Tephritid fruit flies constitute a major constraint. They cause enormous losses through direct feeding damage and loss of market opportunities through imposition of quarantine

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restrictions by importing countries to prevent entry and their establishment. In Africa, several native (Ceratitis and Dacus spp) and exotic (Bactrocera and Zeugodacus spp.) species inflict considerable losses to horticulture causing losses ranging from 30-90%. Over the past 10 years of R&D, extensive information has been generated on bioecology and management of several native and exotic fruit flies in Africa. While several specific reviews have addressed various aspects of the biology, ecology and management of economically important tephritid fruit flies; coverage of African native species has been limited

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largely to Bactrocera oleae and Ceratitis capitata - which are not economically important species in many Africa countries. Indeed, no book exist that have explicitly addressed economically important African fruit flies and none of the various reviews, have specifically focused on the status of the bioecology, economic impact and management of exotic and native fruit flies - including several potentially invasive Dacus species attacking vegetables - in Africa. This book consolidates this status of knowledge and socio-economic impact of various intervention techniques that are currently being applied across Africa.

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The timing of the book is especially pertinent due to the changing fruit fly landscape in Africa - caused by arrivals of the highly destructive alien invasives (*Bactrocera dorsalis*, *B. zonata*, and *B. latifrons*) - and the priorities African countries have placed recently on export of fruits and vegetables to international markets. This is an important reference material for researchers, academics and students that are keen at improving horticulture and enhancing food and nutrition security in Africa and beyond. *The Bollworm* Oct 04 2020 *Fruit Flies of Economic Significance* May 11 2021 This book presents biosystematic

information on fruit flies of the world that are of economic importance, and includes host data for about 250 species, as well as illustrated keys to adults, distribution data and recent references for over 100 of these species. In addition there is extensive coverage of larval stages, with the inclusion of keys separating the final instar larvae of over 60 species and detailed new descriptions of 34 of these species. As a whole, the book is a comprehensive identification guide to fruit fly pests across many temperate regions and will be invaluable to entomologists and pest control specialists. *Annual Report* -

Commonwealth Scientific and Industrial Research Organization, Division of Entomology Nov 05 2020 *Sterile Insect Technique* Jul 21 2019 The sterile insect technique (SIT) is an environment-friendly pest control method that fits into area-wide integrated pest management (AW-IPM) programmes. This book describes the principles and practice of SIT, frankly evaluating its strengths and weaknesses, successes and failures. SIT is useful against pests that have considerable impact on plant, animal and human health, and criteria are provided to guide in the selection of pests appropriate

for SIT.

Contribution Dec 26 2019
Trapping and the Detection, Control, and Regulation of Tephritid Fruit Flies Oct 16

2021 The book focuses on four broad topics related to trapping of agriculturally important tephritid fruit flies, namely i) lures and traps, ii) invasion biology and detection of infestations, iii) attract and kill systems, and iv) trade regulations and risk assessment. This comprehensive structure progresses from the biological interaction between insect and lures/traps to the area-wide use of trapping systems to the utilization and impact of trapping data on international

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trade. The chapters include accounts of earlier research but are not simply compendia and instead evaluate past and current work as a tool for critical analysis and proposal of productive avenues for future work. At present there is no book available that deals with fruit fly trapping in such a broad context. Our book fills this gap and serves as a global reference for both those interested in fruit flies specifically as well as anyone dealing with the threat of invasive agricultural insects in general.

Minutes and Votes and Proceedings of the Parliament, with Papers Presented to Both Houses

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Aug 22 2019

Guidance for Packing, Shipping, Holding and Release of Sterile Flies in Area-wide Fruit Fly Control Programmes

Feb 08 2021 There has been little harmonisation of the processes involved in the handling and release of sterile insects after production in mass rearing facilities. There are no standard guidelines available to transfer this technology to FAO or IAEA member countries that want to embark on sterile insect technique (SIT) activities. There is also increased interest by the private sector in investing in sterile insect production and/or other SIT activities, and these

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harmonized guidelines on the post-production phase will facilitate SIT application and foster the commercialization of the SIT. This guideline resulted from two FAO/IAEA consultants' meetings with representatives of relevant SIT programmes, the first held in Sarasota, Florida, United States of America (April 2004) and the second in Vienna, Austria (August 2005). It has identified a number of gaps in knowledge as well as procedures that are often based on conventional wisdom but which need scientific verification or optimization.

Notification of a Queensland Fruit Fly Outbreak at Cobram East May 23 2022

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Areawide Pest Management

Sep 22 2019 Pest management has long been a problem for farmers worldwide and new techniques are continually being developed to reduce the adverse effects of pest populations. The use of areawide pest management has increased dramatically over the past decade and offers potential advantages to traditional and more localized approaches. Suppression over a broad area can reduce re-infestation of previously treated areas and the specific pest management techniques may be more effective when applied over larger areas. Providing the first comprehensive discussion of

areawide pest management, this book will explore the theoretical development and implementation of techniques from a worldwide perspective. Areas covered include history and development, biological and ecological impacts and recent case studies of pest management programmes. *Biology and Management of Bactrocera and Related Fruit Flies* Jun 24 2022 Throughout Asia, Australia and the Pacific, and increasingly in Africa, the primary horticultural insect pests are fruit flies belonging to the genera Bactrocera, Zeugodacus and Dacus (Diptera: Tephritidae: Dacini). The Dacini is a hugely diverse clade of nearly 900 species

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endemic to the rainforests of Asia, Australia and the western Pacific, and the savannas and woodlands of Africa. All these species lay their eggs into fleshy fruits and vegetables, where the maggots feed, therefore destroying the fruit. In addition to being crop pests, dacines are also invasive pests of major quarantine importance and their presence in production areas can significantly impact market access opportunities. This broad text provides a rapid introduction to this economically and ecologically important group, which includes species such as the Oriental fruit fly (*B. dorsalis*), Melon fly (*Z. cucurbitae*),

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Queensland fruit fly (*B. tryoni*) and the Olive fly (*B. oleae*). Broken into three primary sections, it first explores the evolutionary history, systematic relationships, taxonomy and species-level diagnosis of the Dacini flies. The following biology section covers their life history, population demography, behaviour and ecology, and natural enemies. The final section of the book covers the management of these flies, with chapters on pre-harvest, post-harvest and regulatory controls. Each chapter concludes with a list of key monographs, papers or book chapters for further reading. This book will be of interest to field entomologists,

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extension officers, quarantine officers and market access negotiators, as well as students of applied entomology and pest management.

Fruit Flies and the Sterile Insect Technique Jul 01 2020

This book is a continuation of the development of the Sterile Insect Technique (SIT) specifically designed for use against, and management of, fruit flies. Several factors indicate an increased use of the SIT against fruit flies within the next decade.

Of Peaches and Maggots Jan 07 2021

Insect Pests of Fruit and Vegetables Dec 18 2021 This book is designed to help growers identify insects and

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mite pests of fruit and vegetables, with details of life cycles and seasonal activities of pests. Information on biological control organisms are included. *Fruit Fly Pests* Aug 26 2022 A book of national and international importance, *Fruit Fly Pests* is an exhaustive compendium of information (with data provided by more than 100 contributors) that will appeal to a wide variety of readers. With huge losses experienced annually from fruit fly devastation, information on these high-profile insects is important to commercial fruit and vegetable growers, marketing exporters, government regulatory agencies, and the scientific

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community. Fruit flies impose a considerable resource tax, and the ones who suffer range from shippers to end users. The demand for world-wide plant protection requires up-to-date research information. This book meets that need. This book contains the proceedings from the most recent International Symposium on Fruit Flies of Economic Importance. Here you will find the major presentations given at the symposium, with an added feature - overviews from experts on topics not covered directly by participants in the symposium, filling in gaps in the current literature. The resulting publication is the most up-to-date and readable

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text to be found anywhere on the subject of tephritids. **Agroecological Crop Protection** Oct 24 2019 This book is devoted to Agroecological Crop Protection, which is the declension of the principles of agroecology to crop protection. It presents the concepts of this innovative approach, case studies and lessons and generic keys for agroecological transition. The book is intended for a wide audience, including scientists, experimenters, teachers, farmers, students. It represents a new tool, proposing concrete keys of action on the basis of feedbacks validated scientifically. Beyond the

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examples presented, it is therefore of general scope and proposes recommendations for all temperate and tropical cropping systems. It contributes to the training and teaching modules in this field and it is an updated information support for

professionals and a teaching aid for students (agronomy, crop protection, biodiversity management, agroecology). *Guideline for packing, shipping, holding and release of sterile flies in area-wide fruit fly control programmes* Mar 21

2022 In a context of increasing use and transboundary shipment of sterile insects, this updated FAO/IAEA guideline provides a compilation of the processes currently used in most of the fruit fly Sterile Insect Technique (SIT) applications world-wide.