

Full Length Research Paper

Achieving rational pesticide use in outdoor tomato production through farmer training and implementation of a technical guideline

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Smallholder farmers were trained by frontline extensionists and local experts on how to apply Integrated Pest Management (IPM) in outdoor tomatoes, *Solanum lycopersicum*, during farmer field schools in Northern Tanzania between 2005 and 2008. Farmers were also organised into newly-established vegetable producer clubs within which they developed a technical guideline defining the minimum requirements for integrated tomato production. Unaligned, clustered sample surveys conducted among farmers trained in IPM and conventional farmers between 2009 and 2010 revealed that IPM farmers adopted and/or more frequently used non-hazardous preventive measures for pest (arthropod, disease and weed) control than non-IPM farmers. However, pest incidence was so severe during these years that nearly every IPM and non-IPM farmer had to use synthetic pesticides as a direct control measure. Overall, IPM farmers sprayed synthetic pesticides in smaller quantities and less frequently than non-IPM farmers, but they applied natural source pesticides more frequently and in larger amounts. IPM farmers used 85% less often the more hazardous pesticides (WHO toxicity Class I and II) than non-IPM farmers, as well as 42% more often the less hazardous pesticides [Class III and U (=IV)], and 84% more often 'green' products (for example, biological, safe botanicals). In conclusion, the training of farmers in IPM, together with the implementation of a technical guideline and the establishment of producer clubs, is highly recommended for reducing the use of hazardous pesticides and improving the production of vegetables that are safer for producers, consumers and the environment.

Key words: Integrated pest management (IPM), farmer training, technical guideline, project monitoring and evaluation, vegetable producer clubs, *Solanum lycopersicum*, pesticide reduction, Tanzania.

INTRODUCTION

The tomato (*Solanum lycopersicum* L.) is of great importance to smallholder farmers in the Kilimanjaro and Arusha regions of the northern zone of Tanzania in terms of local consumption and income generation (Barry et al.,

2009; Djurfeldt et al., 2010). Smallholder farmers usually grow tomatoes outdoors all year round in Northern Tanzania if there is sufficient rainfall or the availability of irrigation. Main production periods are from March to May

Rational Pesticide Use

**National Research Council, Board on
Agriculture, Committee on Strategies
for the Management of Pesticide
Resistant Pest Populations**

Rational Pesticide Use:

Rational Pesticide Use K. J. Brent, R. K. Atkin, 1987-09-17 There is growing concern among scientists farmers and the general public that pesticides are being applied ever more widely but with less and less discretion This book brings together a range of experts to discuss how crop protection chemicals can be used more rationally so as to maximise benefits in yield and quality while minimising environmental and economic costs The book is based on the ninth Long Ashton Symposium and is organised into four sections The first environment examines to what extent current pesticide use is affecting the environment and human welfare and what changes in practice are justified The second application assesses progress in performance and safety in the use of pesticides while the next section resistance looks at problems and shortcomings arising from the appearance of resistant strains of pests and considers strategies for surmounting these difficulties The final section forecast and pest management asks whether existing methods of assessing risks are acceptable and seeks ways of rendering decision making in crop protection more rational

Rational Pesticide Use K. J. Brent, 1987 *Optimising Pesticide Use* Michael Wilson, 2004-01-09 Optimising Pesticide Use brings together the wide range of scientific disciplines necessary to ensure best practice through monitoring what is used and improving how it is formulated and applied The book provides An in depth exploration of pesticide optimisation from the view point of industry and research scientist A case study on the development of a new range of active chemistries from bacteria A discussion of complementary pest control methods This text will provide essential information to workers in the pesticide industry and regulatory community who need to be aware of current thinking and advancements in the optimal use of pesticidal compounds and systems as well as environmental organisations and aid development organisations

Technological Innovations in Integrated Pest Management Biorational and Ecological Perspective Dharam P. Abrol, 2017-04-01 Human population is growing rapidly disproportionate to food supply which necessitate production of more volume of food in the near future The reliance on insecticides for quick and dramatic results was not totally free from adverse effects This book intends to fill the gap by providing a critical analysis of different management strategies that have a bearing on agriculture sustainability and environmental protection This book emphasizes the management strategies with evaluation of each strategy in the bigger picture of ecologically driven pest management This book includes 24 chapters which cover ecological and biorational basis of pest management integrated pest and disease management crop breeding for resistance use of entomopathogenic nematodes and other agents remote sensing biosecurity issues risk to biodiversity by exotic species new and emerging pests of horticultural crops saffron and stored grains the role of extension technologies in dissemination of IPM and future challenges and strategies The book is aimed to serve as reference book for teachers researchers extension officers and policy makers associated with IPM This book can also be used as supplementary reading material in undergraduate and postgraduate courses This book provides a multidisciplinary IPM perspective to entomologists plant pathologists extension educationists anthropologist and economists **Pesticides in**

World Agriculture Robert Boardman,1986-06-02 **The Pesticide Detox** Jules N. Pretty,2012-07-26 Since the 1960s the world's population has more than doubled and agricultural production per person has increased by a third Yet this growth in production has masked enormous hidden costs arising from widespread pesticide use massive ecological damage and high incidences of farmer poisoning and chronic health effects Whereas once the risks involved with pesticide use were judged to be outweighed by the potential benefits increasingly the external costs of pesticides to environments and human health are being seen as unacceptable In response to this trend recent years have seen millions of farmers in communities around the world reduce their use of harmful pesticides and develop cheaper and safer alternatives The Pesticide Detox explores the potential for the phasing out of hazardous pesticides and the phasing in of cost effective alternatives already available on the market This book makes clear that it is time to start the pesticide detox and to move towards a more sustainable agriculture

Agribusiness and Society Kees Jansen,Sietze Vellema,2008-02-29 This volume examines how far agribusiness corporations are responding to the opportunities and pressures resulting from emerging environmental awareness In particular in what ways are they changing their R some changed their production practices in a sustainable way while others have complied with or resisted state environmental regulation notably labelling systems and certification Each study explores how institutional cultural economic political and technological contexts shape the strategies of big business Topics include green bananas genetically modified tomatoes and soy the new markets in organic produce health and pesticides and access to justice The book explains why some corporations are successful in introducing environmentally friendly innovations and others are not The key to understanding contrasting outcomes is examining the interaction between internal corporate environments where profit and efficiency considerations predominate and external environments where consumer preferences NGO pressures and government regulation are important The book also explores possible new roles for the public sector The result is a sophisticated and critical analysis of business practices and regulatory systems in the agro food sector Catie , **OECD Trade Policy Studies Environmental Requirements and Market Access** OECD,2005-11-28 Investigating over twenty cases this OECD report examines how environmental requirements can become trade barriers for developing countries **Pesticide Resistance** National Research Council,Board on Agriculture,Committee on Strategies for the Management of Pesticide Resistant Pest Populations,1986-02-01 Based on a symposium sponsored by the Board on Agriculture this comprehensive book explores the problem of pesticide resistance suggests new approaches to monitor control or prevent resistance and identifies the changes in public policy necessary to protect crops and human health from the ravages of pests The volume synthesizes the most recent information from a wide range of disciplines including entomology genetics plant pathology biochemistry economics and public policy It also suggests research avenues that would indicate how to counter future problems A glossary provides the reader with additional guidance **Integrated Pest Management in Tropical Regions** Carmelo Rapisarda,Giuseppe E Massimino Cocuzza,2017-12-11 This book provides up to

date and comprehensive coverage of the research and application of Integrated Pest Management IPM in tropical regions The first section explores the agro ecological framework that represents the foundations of IPM in addition to emerging technologies in chemical and biological methods that are core to pest control in tropical crops The second section follows a crop based approach and provides details of current IPM applications in the main tropical food crops such as cereals legumes root and tuber crops sugarcane vegetables banana and plantain citrus oil palm tea cocoa and coffee and also fibre crops such as cotton and tropical forests

Integrated Pest Management in the Global Arena Karim M. Maredia,D. Dakouo,D. Mota-Sanchez,2003-01-01 This book presents experiences and successful case studies of integrated pest management IPM from developed and developing countries and from major international centres and programmes It contains 39 chapters by many contributors addressing themes such as emerging issues in IPM including biotechnology pesticide policies and socioeconomic considerations 8 chapters country experiences from Africa Asia North and South America Europe Australia and New Zealand 20 chapters and regional and international experiences including those of FAO USAID ICIPE CIRAD the World Bank and CGIAR Systemwide IPM Program 9 chapters This book will be of significant interest to those working in the areas of crop protection entomology and pest management

Pesticide Application Methods G. A. Matthews,Roy Bateman,Paul Miller,2014-03-31 PESTICIDE APPLICATION METHODS Pesticide Application Methods is the standard work for all those involved in crop protection This fully revised and expanded edition provides up to date information on the different types of application techniques and how they should be used to ensure efficient and effective pest control The third edition of this excellent book was published more than 10 years ago since when a number of important developments have taken place Examples include changes to legislation both in the EU and USA concerning water quality This has an impact on how spray is applied and more particularly how the sprayer is designed to minimise quantities that remain in the equipment when spraying is completed and in addition inform how and when the sprayer is cleaned Concern about spray drift has also continued and has led to more research on how to reduce the amount of spray that moves downwind from a treated area Important new information on this topic is included within the new edition Professor Graham Matthews has been joined by two new co authors to increase the breadth and depth of coverage in this updated edition of Pesticide Application Methods This important new edition is a commercially significant reference tool and will be of great use and interest to all those working in crop protection including agricultural entomologists and plant pathologists pesticide scientists advisors and consultants large scale growers agricultural and horticultural scientists agrochemical industry personnel including those involved in equipment supply and product formulation Libraries in government and commercial research establishments universities and agricultural colleges where agricultural and biological sciences are studied and taught should have multiple copies of this definitive book on their shelves

The Handbook of Organic and Fair Trade Food Marketing Simon Wright,Diane McCrea,2008-04-15 The markets for organic and fair trade food are growing rapidly Although there are some

important differences both seek to address the consumer desire for better food fair trade because it offers economically disadvantaged producers a better financial return organic because it is perceived to be a more sustainable system delivering better tasting healthier and safer food than that produced by non organic methods The Handbook of Organic and Fair Trade Food Marketing provides a practical guide to successful marketing in these two dynamic sectors underpinned by case histories and lessons from companies that have been successful in these areas including Green an analysis of organic and fair trade consumers a review of successful retailing practice and a section on organic and fair trade divergence and convergence Chapters are also included on perspectives from the USA Germany and Italy The book is written by industry experts augmented by academic contributions where appropriate offering for the first time the practical marketing advice required by companies in this sector

Pesticide Interactions in Crop Production J. Altman, 2018-01-18 Pesticide Interactions in Crop Production Beneficial and Deleterious Effects evaluates the effects of pesticides on plants by exploring the physical chemical biological and ecological interactions of pesticides that influence a crop The effects of pesticides on the environment and on the crop pests themselves are considered as well Specific topics addressed include iatrogenic responses the fate of pesticides applied to cereals under field conditions the persistence of pesticides on target crops the effect of pesticides on soil symbionts and the role of ecological agriculture on conventional and organic cropping systems Pesticide Interactions in Crop Production Beneficial and Deleterious Effects will be an important volume for agriculturalists phytologists mycologists soil biologists plant pathologists tropical ecologists arboriculturalists and other researchers interested in the effects of pesticides on crops and soil

Chemical Pesticide Markets, Health Risks and Residues Jeremy Harris, 2000-01-01 During recent decades there has been a steady increase in the use of chemical pesticides in both developed and developing countries This has caused widespread concern about their impact on human health and on the environment This is particularly the case in less developed countries which may lack appropriate resources to minimize the risks and rectify problems The purpose of this book is to provide a review of information on the scale of manufacture import export and use of chemical pesticides examples of direct risks to human welfare in terms of acute poisonings caused by occupational exposure and pesticide residues in food examples of problems with the storage of obsolete stocks of pesticides in developing countries The focus is on acute problems in developing countries particularly in Latin America Asia and Africa but some information is also provided about developed countries

Sustainable Insect Pest Management S. Ignacimuthu, S. Jayaraj, 2005 Overexploitation of natural resources and excessive chemicalization of agriculture have led to poor sustainability of farm production Indiscriminate use of agricultural chemicals has resulted in problems of pest resurgence and development of resistance on the one hand and has posed serious problems of environmental contamination through residues in food chain on the other hand The importance of achieving food production through the use of ecofriendly sustainable pest management techniques is being realized more and more in the recent past Eminent scientists from

different research institutions have looked into this aspect seriously and have come up with many enlightening suggestions compiled together in this book **Handbook of Agri-Food Law in China, Germany, European Union** Ines Härtel, 2018-01-09 This book offers a new and differentiated overview of Agri Food Law against the background of national and global integration of markets and compares for the first time important aspects of the agricultural environmental and food law of China and Germany the European Union In addition to the basics it discusses a wide range of issues such as the respective legal regulatory structures for food security food safety geographical indications of origin climate protection fertilizers plant protection products genetic engineering water protection soil protection land resources and organic farming In addition it addresses key environmental impacts and developments in order to create integrated value chains The increasing fusion of upstream and downstream areas is becoming apparent from primary production to the refinement and trade up level and even to consumption Agri Food Law is now productively taking these important developments into account with regard to the aforementioned countries **Report on the Environmental Assessment of Pesticide Regulating Programs, Final** California. Environmental Assessment Team, 1979 **Cocoa Productivity, Quality, Profitability, Human Health and the Environment** ,

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