



Evaluation of pesticides residues in Greek peaches during 2002–2007 after the implementation of integrated crop management

Theocharis G. Danis^a, Despoina T. Karagiozoglou^a, Ioannis N. Tsakiris^b, Athanasios K. Alegakis^c, Aristides M. Tsatsakis^{c,*}

^aDBSOP SA, P.O. Box 5, 55005 Aretsia, Isparta, Greece

^bFG of Western Macedonia, Medical Branch, Department of Agricultural Products Management and Quality Control, Florina, Kozani, 53100 Florina, Greece

^cLaboratory of Toxicology, Department of Medicine, University of Crete, Vassia, 71409 Heraklion, Greece

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ABSTRACT

The incidence and levels of pesticide residues in peaches grown using Integrated Crop Management (ICM) methods in Pella and Imathia, districts of Macedonia, Northern Greece, are hereby presented. A total of 1150 peach samples were collected pre-harvest (June–September) and were analysed during the period of 2002–2007. Residual levels of selected insecticides, fungicides and acaricides were determined by Gas Chromatography–Mass Spectrometry following solid phase extraction. The monitoring program is extended up to 21 pesticides. Twenty-two of them were measured above detection limit, and 8 of them were found present every year. Insecticides represent the highest incidence amongst pesticide categories (654 positive samples, 56.50%) while chlorpyrifos is the most frequent within the category (491 positive samples). The incidence of pyrethrins was the highest in 2007 (26.8%) while bifenox was detected most frequently within this category (67 positive samples in 2007). Traceable levels of pesticides were lower than the Maximum Residue Limits (MRLs) in all peach samples. Variations in incidence and levels of pesticides are attributed to some extent to the weather conditions as well as due to abundance by the guidelines of agronomists during blowing and harvest period. Monitoring in agricultural products could be employed as the first step in a chain of biomonitoring studies in humans, and may also be proven to be a good and ample indicator of exposure.

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1. Introduction

Integrated crop management (ICM) cultivation includes guidelines which farmer unions use to enforce actions for the production of safe agricultural products, with simultaneous respect to the environment (Greek Ministry of Agriculture & Supervision of Agricultural Products, 1999a). ICM is a system that includes measures for good agricultural practice, for safety and hygiene of workers, for safety of products, for full traceability of measurements and for preservation of the environment. For instance, ICM allows all pesticides registered in conventional cultivations, while stipulating specific instructions for the application on crops (Greek Ministry of Agriculture & Supervision of Agricultural Products, 1999b).

Based on FAO statistics, Greece is the fifth largest world producer of peaches (<http://www.fao.org/stat/fao.org/site/339/default.asp>). Macedonia (prefectures of Imathia and Pella) being the

main area of cultivation. Since 1998, application of ICM is strongly enforced.

The Greek national authority for the application of ICM, AGRO-GEIT, has published two models 'AGRO 2.1 Specifications' and 'AGRO 2.2 Requirements'. The first includes general requirements in agricultural practice that can be inspected objectively. It constitutes the initial concepts for the certification of the ICM system that is applicable in every agricultural practice regardless of the type of crop. AGRO 2.2 describes the technical and legal requirements for the crop production system and accompanies the model of AGRO 2.1. It includes general rules and illustrates measures for environmentally friendly and good agricultural practice in order to produce safe and fine quality products, while achieving best environmental management.

Many issues concerning the implementation of ICM and especially that of pesticide residues are currently under investigation. A previously published paper points out that, levels of pesticide residues in fruit and vegetable samples originating from organic cultivations were considerably lower than those originating from conventional and ICM cultivations in USA (Baker, Benbrook, Groth, & Lutz Benbrook, 2002). Other relevant papers deal with a variety of topics such as: (a) the use of insecticides against the green peach

* Corresponding author. Address: Toxicology Laboratory, Medical School, University of Crete, P.O. Box 1381, Heraklion 71409, Crete, Greece. Tel.: +30 2810 543099/544679; fax: +30 2810 544668; +30 2810 543098.

E-mail addresses: a.tsatsakis@uoi.gr, marulka@uoi.gr (A.M. Tsatsakis).

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Pesticide Residues in Food - 2004 Food and Agriculture Organization of the United Nations, World Health Organization, 2005-01-01 This document published in two volumes contains the summaries of the residue data considered and the recommendations made at the 2004 Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the WHO Core Assessment Group

Pesticide residues in food 2018 - Report 2018 - Joint FAO/WHO Meeting on Pesticide Residues Food and Agriculture Organization of the United Nations, 2019-03-13 This meeting held in Berlin Germany on 18-27 September 2018 reviewed pesticide use patterns and good agricultural practices data on the chemistry and composition of the pesticides and methods of analysis for pesticide residues and recommended maximum residue levels The report also contains information on acceptable daily intakes and acute reference doses of pesticides for humans and general principles for the evaluation of pesticides The recommendations of the joint FAO and WHO meeting including further research and information are proposed for use by Member governments of the respective agencies and other interested parties The meeting was held in pursuance of recommendations made by previous meetings and accepted by the governing bodies of FAO and WHO that studies should be undertaken jointly by experts to evaluate possible hazards to humans arising from the occurrence of pesticide residues in foods

Pesticide Residues in Food - 2005 Food and Agriculture Organization, World Health Organization, 2006-01-01 This two volume publication contains information on acceptable daily intakes ADIs and maximum residue levels general principles for the evaluation of pesticides and the recommendations made at the 2005 Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment JMPR and the WHO Core Assessment Group which was held in Geneva Switzerland in September 2005

Pesticide Residues in Food, 2005 Food and Agriculture Organization of the United Nations, World Health Organization, 2005-01-01 The annual Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and WHO Core Assessment Group on Pesticide Residues was held in Geneva Switzerland from 20 to 29 September 2005 The Panel reviewed pesticide use patterns good agricultural practice data on the chemistry and composition of the pesticides and methods of analysis for pesticide residues The WHO Core Assessment Group reviewed toxicological and related data and estimated acceptable daily intakes ADIs for humans This report contains information on ADIs maximum residue levels and general principles for the evaluation of pesticides

Pesticide Residues in Food 2007 Food and Agriculture Organization of the United Nations, 2007-01-01 The annual Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues was held in Geneva Switzerland from 18 to 27 September 2007 The Meeting was held in pursuance of recommendations made by previous meetings and accepted by the governing bodies of FAO and WHO that studies should be undertaken jointly by experts to evaluate possible hazards to humans arising from the occurrence of pesticide residues in foods This report contains information on ADIs ARfDs maximum residue levels and general principles

for the evaluation of pesticides The recommendations of the Joint Meeting including further research and information are proposed for use by Member governments of the respective agencies and other interested parties

Joint FAO/WHO Meeting on pesticide residues | Report 2017 Food and Agriculture Organization of the United Nations, World Health Organization, 2018-05-22 Thirty eight pesticides were evaluated for toxicity and residues at the JMPR meeting This unique global review of pesticide residue data contains recommendations on pesticide residue limits and general dietary risk assessment principles for use by governments and other interested parties

Pesticide Residues in Food 2006 World Health Organization, Food and Agriculture Organization of the United Nations, 2007 Sponsored jointly by FAO and WHO A joint meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group Rome Italy 3 12 October 2006

Pesticide Residues in Food 2016 Food & Agriculture Organization, 2017-04-27 The pesticides diazinon glyphosate and malathion were evaluated at the Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues JMPR held in May 2016 This followed a recommendation that they be re evaluated due to public health concerns identified by the International Agency for Research on Cancer IARC and the availability of a number of new studies The meeting reviewed epidemiological toxicological and related data in order to establish acceptable daily intakes ADIs and acute reference doses ARfDs of the pesticides for humans It also estimated dietary exposures both short and long term to the pesticides reviewed and performed related dietary risk assessments

The FAO/IAEA Spreadsheet for Designing and Operating Insect Mass-rearing Facilities Carlos Cáceres, Pedro Rendón, Andrew Jessup, 2012 An important prerequisite of these programmes is the availability of adequate numbers of sterile male flies that are produced in large mass rearing facilities

WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification 2009 International Program on Chemical Safety, World Health Organization, 2010 The WHO Recommended Classification of Pesticides by Hazard was approved by the 28th World Health Assembly in 1975 and has since gained wide acceptance When it was published in the WHO Chronicle 29 397 401 1975 an annex which was not part of the Classification illustrated its use by listing examples of classification of some pesticidal active ingredients and their formulations Later suggestions were made by Member States and pesticide registration authorities that further guidance should be given on the classification of individual pesticides Guidelines were first issued in 1978 and have since been revised and reissued every few years Up until the present revision the original guidelines approved by the World Health Assembly in 1975 have been followed without amendment In December 2002 the United Nations Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals UNCETDG GHS approved a document called The Globally Harmonized System of Classification and Labelling of Chemicals with the intent to provide a globally harmonized system¹ GHS to address classification of chemicals labels and safety data sheets The GHS with subsequent revisions is now being widely used for the

classification and labeling of chemicals worldwide For this revision of the Classification the WHO Hazard Classes have been aligned in an appropriate way with the GHS Acute Toxicity Hazard Categories for acute oral or dermal toxicity as the starting point for allocating pesticides to a WHO Hazard Class with adjustments for individual pesticides where required It is anticipated that few of the more toxic pesticides will change WHO Hazard Class as a result of this change As has always been the case the classification of some pesticides has been adjusted to take account of severe hazards to health other than acute toxicity as described in Part II The GHS Acute Toxicity Hazard Category for each pesticide is now presented alongside the existing information Page 1

WHO recommended classification of pesticides by hazard and guidelines to classification, 2019 edition, 2020-04-30 **Pesticide Residues in Food**, 2010 Submission and Evaluation of Pesticide Residues Data for the Estimation of Maximum Residue Levels in Food and Feed, 2009 During the 1990s Suriname was subject to exogenous shocks that were exacerbated by inadequate macroeconomic policy responses During that decade fiscal and monetary policies tended to vastly amplify the effects of negative shocks to bauxite export receipts leading to various episodes of nearhyperinflation Output growth was also highly volatile reflecting to some extent the countrys dependence on mining exports but more so the highly inadequate macroeconomic policies In recent years the outlook has turned substantively more positive The favorable external environment and the stability oriented policies of the Venetiaan administration have boosted confidence in the economy leading to increased investment domestic economic activity and employment Nonetheless the economy continues to be based largely on commodity exports mainly bauxite oil and gold while nontraditional agricultural exports face significant developmental and export hurdles A detai **Cassava Farmer Field Schools** Martin Ameu, 2013 This manual is part of FAO s effort to promote sustainable intensification of smallholder crop production It has been developed from experiences with farmer field schools in four African countries It provides background information on the farmer field school approach and a compilation of field exercises as they are used in cassava farmer field schools The guide is intended for use by farmer field facilitators during training of facilitators or during the farmer field school itself **Good Agricultural Practices for Greenhouse Vegetable Crops**, 2013 This publication capitalizes on the experience of scientists from the North Africa and Near East countries in collaboration with experts from around the world specialized in the different aspects of greenhouse crop production It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity The publication is also meant to be used as a reference and tool for trainers and growers as well as other actors in the greenhouse vegetables value chain in this region **Quality Declared Planting Material** Juan Fajardo, 2010 This publication includes a set of protocols and standards for the production of quality planting material of the most important vegetatively reproduced crops namely banana plantain and other Musaceae cassava cocoyam garlic hausa potato konjac mashua oca potato sweet potato taro ulluco and yam Prepared by FAO in collaboration with the International Potato Centre

and a team of international experts it follows the principles and approach of FAO's Quality Declared Seed System. Vegetatively propagated crop species contribute significantly to the agriculture and food production sectors of many developing countries and regions and to their food security. The current availability and dissemination of advanced reproduction technologies in particular for micropropagation have increased the scope for improvement and development of disease free planting materials for these crops. However in spite of their potential they have received little attention in formal seed quality regulatory systems. Thus these protocols and standards were developed to serve as practical and useful tools for seed producers and technicians at the community level as well as for national seed services and the agricultural research community in developing countries. Improved quality of planting materials will contribute significantly to improved agricultural production and productivity and to global food security. Book jacket *Seeds in Emergencies*, 2010. The seed security of small scale rural households is often put at risk by natural and human caused disasters. As a consequence seeds are frequently provided to vulnerable households as part of the emergency response. However seeds are unlike other inputs such as fertiliser or tools because they are fragile living organisms with specific quality attributes. In addition crop varieties must be adapted to the targeted agro ecological zone and meet the preferences of the local households. The WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification, 2004. **Pesticide Residues in Food - 2002**, 2003. The report Pesticide Residues in Food 2002 Toxicological Evaluations by the WHO Core Assessment Group of the 2002 Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group JMPR includes full toxicological monographs for nine pesticides acephate esfenvalerate flutoanil lindane metalaxyl metalaxyl M methamidophos oxamyl tolyfluanid and triazophos and monograph addenda for four pesticides carbofuran ethion fenamiphos and oxydemeton methyl. Esfenvalerate flutoanil and metalaxyl M were evaluated for the first time. Carbofuran fenamiphos and oxydemeton methyl were evaluated for establishment of acute reference doses. A report on Studies of Developmental Neurotoxicity and Their Use in Establishing Acute Reference Doses and Acceptable Daily Intakes is also presented. Pesticide Residues in Food - 2002, Evaluations 2002. Food and Agriculture Organization of the United Nations, 2003. Part 2 Toxicological evaluations is published by the World Health Organisation ISBN 9241665181. Sponsored jointly by FAO and WHO with the support of the International Programme on Chemical Safety IPCS.

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Table of Contents Pesticides Residues In Food 2002 Evaluations Residues

1. Understanding the eBook Pesticides Residues In Food 2002 Evaluations Residues
 - The Rise of Digital Reading Pesticides Residues In Food 2002 Evaluations Residues
 - Advantages of eBooks Over Traditional Books
2. Identifying Pesticides Residues In Food 2002 Evaluations Residues
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pesticides Residues In Food 2002 Evaluations Residues
 - User-Friendly Interface

4. Exploring eBook Recommendations from Pesticides Residues In Food 2002 Evaluations Residues
 - Personalized Recommendations
 - Pesticides Residues In Food 2002 Evaluations Residues User Reviews and Ratings
 - Pesticides Residues In Food 2002 Evaluations Residues and Bestseller Lists
5. Accessing Pesticides Residues In Food 2002 Evaluations Residues Free and Paid eBooks
 - Pesticides Residues In Food 2002 Evaluations Residues Public Domain eBooks
 - Pesticides Residues In Food 2002 Evaluations Residues eBook Subscription Services
 - Pesticides Residues In Food 2002 Evaluations Residues Budget-Friendly Options
6. Navigating Pesticides Residues In Food 2002 Evaluations Residues eBook Formats
 - ePub, PDF, MOBI, and More
 - Pesticides Residues In Food 2002 Evaluations Residues Compatibility with Devices
 - Pesticides Residues In Food 2002 Evaluations Residues Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pesticides Residues In Food 2002 Evaluations Residues
 - Highlighting and Note-Taking Pesticides Residues In Food 2002 Evaluations Residues
 - Interactive Elements Pesticides Residues In Food 2002 Evaluations Residues
8. Staying Engaged with Pesticides Residues In Food 2002 Evaluations Residues
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pesticides Residues In Food 2002 Evaluations Residues
9. Balancing eBooks and Physical Books Pesticides Residues In Food 2002 Evaluations Residues
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pesticides Residues In Food 2002 Evaluations Residues
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pesticides Residues In Food 2002 Evaluations Residues
 - Setting Reading Goals Pesticides Residues In Food 2002 Evaluations Residues
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Pesticides Residues In Food 2002 Evaluations Residues
 - Fact-Checking eBook Content of Pesticides Residues In Food 2002 Evaluations Residues
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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