

# Pesticide residues in food – 2006

Joint FAO/WHO Meeting on  
Pesticide Residues

FAO  
PLANT  
PRODUCTION  
AND PROTECTION  
PAPER

**189/1**

## EVALUATIONS 2006

### PART I – RESIDUES

### VOLUME 1



World Health  
Organization



Food and Agriculture  
Organization of  
the United Nations

# Pesticide residues in food 2006

Evaluations  
Part I – Residues

FAO  
PLANT  
PRODUCTION  
AND PROTECTION  
PAPER

**189/1**

**Sponsored jointly by FAO and WHO**

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

WORLD HEALTH ORGANIZATION  
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS  
Rome, 2007

Monographs containing summaries or residue data and toxicological data considered at the 2006 JMPR, together with recommendations, are available upon request from FAO or WHO under the title:

Pesticide residues in food 2006  
Evaluations  
Part I: Residues  
FAO Plant Production and Protection Paper  
and  
Part II: Toxicology  
WHO

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations or of the World Health Organization concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

This report contains the collective views of two international groups of experts and does not necessarily represent the decisions or the stated policy of the Food and Agriculture Organization of the United Nations or of the World Health Organization.

INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY

The preparatory work for the toxicological evaluation of pesticide residues carried out by the WHO Expert Group on Pesticide Residues for consideration by the FAO/WHO Joint meeting on Pesticide Residues in Food and the Environment is actively supported by the International Programme on Chemical Safety (IPCS).  
IPCS is a joint venture of the United Nations Environment Programme, the International Labour Organization and the World Health Organization. One of the main objectives of IPCS is to carry out and disseminate evaluations of the effects of chemicals on human health and the quality of the environment.

ISBN 978-92-5-105722-3

All rights reserved. Reproduction and dissemination of material in this information product for educational or other non-commercial purposes are authorized without any prior written permission from the copyright holders provided the source is fully acknowledged. Reproduction of material in this information product for resale or other commercial purposes is prohibited without written permission of the copyright holders. Applications for such permission should be addressed to the Chief, Electronic Publishing Policy and Support Branch, Communication Division, FAO, Viale delle Terme di Caracalla, 00153 Rome, Italy or by e-mail to [copyright@fao.org](mailto:copyright@fao.org)

© FAO and WHO 2007

## CONTENTS

	pages
Participants.....	v
Abbreviations.....	ix
Use of JMPR reports and evaluations by registration authorities .....	xiii
Introduction.....	xv

### Monographs

#### Volume 1

Acephate (095) .....	1
Aldicarb (117) .....	7
Aminopyralid (220) <sup>2/</sup> .....	9
Bifenazate (219) <sup>2/</sup> .....	85
Boscalid (221) <sup>2/</sup> .....	159
Chlorpyrifos (017) .....	301
Diazinon (022) .....	305
Dimethoate (027) .....	309
Disulfoton (074).....	313
Endosulfan (032) <sup>1/</sup> .....	331
Fenamiphos (085) .....	503

#### Volume 2

Fenpropathrin (185) .....	523
Fludioxonil (211) .....	535
Imidacloprid (206) .....	547
Methoxyfenozide (209).....	551
Pirimicarb (101) <sup>1/</sup> .....	555
Propamocarb (148) <sup>1/</sup> .....	719
Propargite (113) .....	803
Propiconazole (160) .....	817
Pyraclostrobin (210).....	821
Quinoxifen (222) <sup>2/</sup> .....	867
Thiabendazole (065) .....	975
Thiacloprid (223) <sup>2/</sup> .....	983
 Annex I, Previous FAO and WHO documents .....	 1149

<sup>1/</sup> Evaluated for the Periodic Review Programme of the Codex Committee on Pesticide Residues.

<sup>2/</sup> New compound.

## LIST OF PARTICIPANTS

### 2006 JOINT FAO/WHO MEETING ON PESTICIDE RESIDUES

ROME, 3–12 OCTOBER 2006

#### FAO Members

Dr Ursula Banasiak, Federal Institute for Risk Assessment, Thielallee 88-92, D-14195 Berlin, Germany  
Tel.: (49 30) 8412 3337; Fax: (49 30) 8412 3008; E-mail: u.banasiak@bfr.bund.de

Professor Eloisa Dutra Caldas, University of Brasilia, College of Health Sciences, Pharmaceutical Sciences Department, Campus Universitário Darci Ribeiro, 70919-970 Brasília/DF, Brazil  
Tel.: (55 61) 3307 3671; Fax: (55 61) 3273 0105; E-mail: eloisa@unb.br

Mr Stephen Funk, Health Effects Division (7509P), United States Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington DC 20460, USA (*FAO Chairman*)  
Tel.: (1 703) 305 5430; Fax: (1 703) 305 0871; E-mail: funk.steve@epa.gov

Mr Denis J. Hamilton, Principal Scientific Officer, Biosecurity, Department of Primary Industries and Fisheries, PO Box 46, Brisbane, QLD 4001, Australia  
Tel.: (61 7) 3239 3409; Fax: (61 7) 3211 3293; E-mail: denis.hamilton@dpi.qld.gov.au

Mr David Lunn, Programme Manager (Residues–Plants), Export Standards Group, New Zealand Food Safety Authority, PO Box 2835, Wellington, New Zealand  
Tel.: (644) 463 2654; Fax: (644) 463 2675; E-mail: dave.lunn@nzfsa.govt.nz

Dr Bernadette C. Ossendorp, Centre for Substances and Integrated Risk Assessment, National Institute of Public Health and the Environment (RIVM), Antonie van Leeuwenhoeklaan 9, PO Box 1, 3720 BA Bilthoven, the Netherlands  
Tel.: (31 30) 274 3970; Fax: (31 30) 274 4475; E-mail: bernadette.ossendorp@rivm.nl

Dr Yukiko Yamada, Director, Food Safety and Consumer Policy Division, Food Safety and Consumer Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries, 1-2-1 Kasumigaseki, Tokyo 100-8950, Japan  
Tel.: (81) 3 3591 4963; Fax: (81) 3 3597 0329; E-mail: yukiko\_yamada@nm.maff.go.jp

#### WHO Members

Professor Alan R. Boobis, Experimental Medicine & Toxicology, Division of Medicine, Faculty of Medicine, Imperial College London, Hammersmith Campus, Ducane Road, London W12 0NN, England (*WHO Chairman*)  
Tel.: (44 20) 8383 3221; Fax: (44 20) 8383 2066; E-mail: a.boobis@imperial.ac.uk

Dr Les Davies, Chemical Review, Australian Pesticides & Veterinary Medicines Authority, PO Box E240, Kingston ACT 2604, Australia  
Tel.: (61 2) 6272 3898; Fax: (61 2) 6272 3218; E-mail: les.davies@apvma.gov.au

Dr Vicki L. Dellarco, Office of Pesticide Programs (7509P), United States Environmental Protection Agency, Health Effects Division; 1200 Pennsylvania Avenue NW, Washington, DC 20460, USA (*WHO Rapporteur*)  
Tel.: (1 703) 305 1803; Fax: (1 703) 305 5147; E-mail: dellarco.vicki@epa.gov

Dr Helen Hakansson, Institute of Environmental Medicine, Karolinska Institutet, Unit of Environmental Health Risk Assessment, Box 210, Nobels väg 13, S-171 77 Stockholm, Sweden  
Tel.: (46 8) 5248 7527; Fax: (46 8) 3438 49, E-mail: Helen.Hakansson@ki.se

Dr Angelo Moretto, Department of Occupational Medicine and Public Health, University of Milan, ICPS Ospedale Sacco, Via Grassi 74, 20157 Milan, Italy  
Tel.: (39 02) 3568661; Fax: (39 02) 38203163; E-mail: angelo\_moretto@fastwebnet.it

Professor David Ray, MRC Applied Neuroscience Group, Biomedical Sciences, University of Nottingham, Queens Medical Centre, Nottingham NG7 2UH, England  
Tel.: (44 115) 82 30138; Fax: (44 115) 823 0142; E-mail: David.Ray@nottingham.ac.uk

Dr Roland Solecki, Safety of Substances and Preparations, Coordination and Overall Assessment, Federal Institute for Risk Assessment, Thielallee 88-92, D-14195 Berlin, Germany  
Tel.: (49 188) 8412 3232; Fax: (49 188) 8412 3260; E-mail: Roland.Solecki@bfr.bund.de

Dr Maria Tasheva, National Center of Public Health Protection (NCPHP), 15 Iv. Ev. Geshov boulevard, 1431 Sofia, Bulgaria  
Tel.: (3592) 954 11 97; Fax: mtasheva@aster.net

### **Secretariat**

Mr Árpád Ambrus, Consultant, Homezo utca 41, H-1221, Budapest, Hungary (*FAO Temporary Adviser*)  
Tel.: (36 20) 2096785; E-mail: aa22632003@yahoo.co.uk

Dr Raj Bhula, Pesticide Residues Manager, Australian Pesticides and Veterinary Medicines Authority, PO Box E240, ACT 2604, Australia (*FAO Temporary Adviser*)  
Tel.: (61 2) 6271 6551; Fax: (61 2) 6272 3551; E-mail: raj.bhula@apvma.gov.au

Dr Hong Chen, International Program Manager, USDA/IR-4 Headquarters, 500 College Road East, Suite 201W, Princeton, NJ 08540, USA (*FAO Temporary Adviser*)  
Tel.: (1 732) 932 9575 ext 4627; Fax: (1 609) 514 2612; E-mail: hchen@AESOP.Rutgers.edu

Mr Bernard Declercq, 13 impasse du court Riage, 91360 Epinay sur Orge, France (*FAO Temporary Adviser*)  
Tel.: (33 1) 64488369; Fax: (33 1) 64488369; E-mail: bernard-declercq@wanadoo.fr

Dr Ian C Dewhurst, Pesticides Safety Directorate, Mallard House, Kings Pool, 3 Peasholme Green, York YO1 7PX, England (*WHO Temporary Adviser*)  
Tel.: (44 1904) 455 890; Fax: (44 1904) 455 711; E-mail: ian.dewhurst@psd.defra.gsi.gov.uk

Dr Ronald D. Eichner, 13 Cruikshank Street, Wanniasa ACT 2903, Australia (*FAO Editor*)  
Tel.: (61 2) 629 62118; Fax: (61 2) 629 46564; E-mail: eichners@tpg.com.au

Dr D. Kanungo, Additional DG, Directorate General of Health Services, Ministry of Health and Family Welfare, West, Block No. 1, R.K. Puram, New Delhi, India (*WHO Temporary Adviser*)  
Tel.: (91 11) 261 01 268; Fax: (91 11) 261 89 307; E-mail: dkanungo@nic.in

- Dr Sandhya Kulshrestha, Secretary, Central Insecticides Board and Registration Committee, Directorate of Plant Protection, Quarantine & Storage, Department of Agriculture and Cooperation, Ministry of Agriculture, NH IV, Faridabad-121001, India (*WHO Temporary Adviser*)  
Tel.: (91 129) 241 3002; Fax: (91 129) 241 21 25/(91 11) 2 338 4182; E-mail: skulsh57@yahoo.co.in
- Dr Yibing He, Pesticide Residue Division, Institute for the Control of Agrochemicals, Ministry of Agriculture, Building 22, Maizidian Street, Chaoyang District, Beijing 100026, China (*FAO Temporary Adviser*)  
Tel.: (86 10) 641 94253; Fax: (86 10) 641 94252; E-mail: heyibing@agri.gov.cn
- Dr Chaido Lentza-Rizos, National Agricultural Research Foundation, 1 Sofocli Venizelou Street, 141 23 Lycovrissi, Athens, Greece (*FAO Temporary Adviser*)  
Tel.: (30) 210 2819 728; Fax: (30) 210 2818 735; E-mail: rizos\_ch@otenet.gr
- Dr Manfred Lützw, Feldhofweg 38, CH-5432 Neuenhof, Switzerland (*FAO Consultant*)  
Tel.: (41 56) 406 2357; Fax: (41 56) 406 2359; E-mail: Manfred.luetzow@luetzow.ch
- Dr Katerina Mastovska, Eastern Regional Research Center (ERRC), Agricultural Research Service (ARS), United States Department of Agriculture, 600 E. Mermaid Lane, Wyndmoor, PA 19038, USA (*FAO Temporary Adviser*)  
Tel.: (1 215) 233 6645; Fax: (1 215) 233 6642; E-mail: katerina.mastovska@ars.usda.gov
- Dr Heidi Mattock, 21bis rue du Mont Ouest, 38230 Tignieu-Jamezieu, France (*WHO Editor*)  
Tel.: (33 478) 32 0758; E-mail: heidimattock@yahoo.com
- Dr Douglas B. McGregor, Toxicity Evaluation Consultants, 38 Shore Road, Aberdour KY3 0TU, Scotland (*WHO Temporary Adviser*)  
Tel.: (44 1383) 860901; Fax: (44 1383) 860901; E-mail: mcgregortec@btinternet.com
- Dr Utz Mueller, Principal Toxicologist, Risk Assessment – Chemical Safety, Food Standards Australia New Zealand, PO Box 7186, Canberra, BC ACT 2610, Australia (*WHO Temporary Adviser*)  
Tel.: (61 2) 6271 2631; Fax: (61 2) 6271 2278; E-mail: utz.mueller@foodstandards.gov.au
- Dr Rudolf Pfeil, Toxicology of Pesticides, Federal Institute for Risk Assessment, Thielallee 88-92, D-14195 Berlin, Germany (*WHO Temporary Adviser*)  
Tel.: (49 30) 8412 3828; Fax: (49 30) 8412 3260; E-mail: rudolf.pfeil@bfr.bund.de
- Mr Derek Renshaw, Food Standards Agency, Aviation House 125 Kingsway, London WC2B 6NH, England (*WHO Temporary Adviser*)  
Tel.: (4420) 72768505; Fax: (4420) 72768513; E-mail: derek.renshaw@foodstandards.gsi.gov.uk
- Mr Christian Sieke, Federal Institute for Risk Assessment, Thielallee 88-92, D-14195 Berlin, Germany (*FAO Temporary Adviser*)  
Tel.: (49 1) 88 8412 3336; Fax: (49 1) 88 8412 3008; E-mail: c.sieke@bfr.bund.de
- Dr Atsuya Takagi, Division of Toxicology, Chief of the Third Section, National Institute of Health Sciences, 1-18-1 Kamiyoga, Setagaya-ku, Tokyo 158-8501, Japan (*WHO Temporary Adviser*)  
Tel.: (81 3) 3700 9646; Fax: (81 3) 3707 6950; E-mail: takagi@nihs.go.jp
- Dr Prakashchandra V. Shah, US Environmental Protection Agency (EPA), Mail Stop: 7509C, 1200 Pennsylvania Ave., NW, Washington DC 20460, USA (*WHO Temporary Adviser*)  
Tel.: (1 703) 308 1846; Fax: (1 703) 305 5147; E-mail: Shah.PV@epa.gov

Dr Angelika Tritscher, WHO Joint Secretary, International Programme on Chemical Safety, World Health Organization, 1211 Geneva 27, Switzerland (*WHO Joint Secretary*)  
Tel.: (41 22) 791 3569; Fax: (41 22) 791 4848; E-mail: tritschera@who.int

Dr Gero Vaagt, FAO Joint Secretary, FAO Plant Protection Service (AGPP), Viale delle Terme di Caracolla, 00153 Rome, Italy (*FAO Joint Secretary*)  
Tel.: (office): (39 06) 5705 5757; Phone (mobile): (39 348) 083 1999; Fax: (39 06) 5705 6347/3224; E-mail: Gero.Vaagt@fao.org

Dr Christiane Vleminckx, Toxicology Division, Scientific Institute of Public Health, FPS – Public Health, Food Chain Safety and Environment, Rue Juliette Wytsman, 14, B-1050 Brussels, Belgium (*WHO Temporary Adviser*)  
Tel.: (32 2) 642 5351; Fax: (32 2) 642 5224; E-mail: c.vleminckx@iph.fgov.be

Dr Gerrit Wolterink, Centre for Substances & Integrated Risk Assessment, National Institute of Public Health and the Environment (RIVM), Antonie van Leeuwenhoeklaan 9, PO Box 1, 3720 BA Bilthoven, the Netherlands (*WHO Temporary Adviser*)  
Tel.: (31 30) 274 4531; Fax: (31 30) 274 4475; E-mail: Gerrit.Wolterink@rivm.nl

Dr Jürg Zarn, Swiss Federal Office of Public Health, Food Toxicology Section, Stauffacherstrasse 101, CH-8004 Zurich, Switzerland (*WHO Temporary Adviser*)  
Tel.: (41 43) 322 21 93; Fax: (41 43) 322 21 99; E-mail: Juerg.Zarn@bag.admin.ch

## ABBREVIATIONS

(Well-known abbreviations in general use are not included. Specific abbreviations for pesticide degradation products, etc., may be used in the monographs and these are either identified where first used or in a table within the monograph. Two-letter codes for pesticide formulations are given in the Manual on development and use of FAO and WHO specifications for pesticides, 1<sup>st</sup> Ed., FAO Plant Production and Protection Paper 173, FAO, Rome, 2002.)

AChE	anti-acetylcholinesterase
ACN	acetonitrile
ADI	acceptable daily intake
AFID	alkali flame-ionization detection or detector (equivalent to TSD, forerunner of NPD)
ai	active ingredient
AR	Applied radioactivity
ARfD	acute reference dose
AUC	area under the curve for concentration–time
BBCH	Biologische Bundesanstalt, Bundessortenamt and Chemical industry.
BMDL <sub>10</sub>	benchmark-dose lower 95% confidence level
bw	body weight
CA	Chemical Abstracts
CAC	Codex Alimentarius Commission
CAS	Chemical Abstracts Services
CCN	Codex classification number (for compounds or commodities)
CCPR	Codex Committee on Pesticide Residues
CCRVDF	Codex Committee on Residue of Veterinary Drugs in Food
CEC	cation exchange capacity
CI	chemical ionization
CV	coefficient of variation (RSD)
CXL	Codex Maximum Residue Limit (Codex MRL). See MRL
d	days
DAT	days after (last) treatment
DCM	dichloromethane
DFG	Deutsche Forschungsgemeinschaft
DT <sub>50</sub>	time for 50% decomposition (i.e. half-life)
DT <sub>90</sub>	time for 90% decomposition
2D-TLC	two dimensional thin layer chromatography
dw	dry weight
ECD	electron capture detection or detector
EI	electron-impact (ionization), now more usually electron ionization
EPA	Environmental Protection Agency (usually US EPA)
eq	residue expressed as ai equivalent
F <sub>1</sub>	first filial generation
F <sub>2</sub>	second filial generation
FAO	Food and Agriculture Organization of the United Nations
FID	flame-ionization detection or detector
FPD	flame-photometric detection or detector
GAP	good agricultural practice(s)

GC	gas chromatography; the detector system used is usually also abbreviated as a suffix
GEMS/Food	Global Environment Monitoring System–Food Contamination Monitoring and Assessment Programme
GLP	good laboratory practice (i.e. the defined system, not in the general sense)
GPC	gel-permeation chromatography
GSH	glutathione
HPLC	high-performance liquid chromatography
HPLC-MS	high-performance liquid chromatography – mass spectrometry
HPLC-UV	high-performance liquid chromatography with UV absorption detection
hr	hour
HR	highest residue in the edible portion of a commodity found in trials used to estimate a maximum residue level in the commodity
HR-P	highest residue in a processed commodity calculated by multiplying the HR of the raw commodity by the corresponding processing factor
IARC	International Agency for Research on Cancer
IEDI	international estimated daily intake
IESTI	international estimate of short-term dietary intake
IPCS	International Programme on Chemical Safety
IR	infrared spectroscopy
ITD	ion-trap detector or detection
IUPAC	International Union of Pure and Applied Chemistry
JECFA	Joint Expert Committee on Food Additives
JMPR	Joint Meeting on Pesticide Residues
JMPS	Joint FAO/WHO Meeting on Pesticide Specifications
LC	liquid chromatography
LC-MS	liquid chromatography – mass spectrometry
LC <sub>50</sub>	median lethal concentration
LD <sub>50</sub>	median lethal dose
LOAEL	lowest-observed-adverse-effect level
LOAEC	lowest-observed-adverse-effect concentration
LOD	limit of detection
LOQ	limit of quantification
LSC	liquid scintillation counting or counter
M	molar = mole/L
MID	multiple ion detection (mass spectrometric)
MRL	Maximum Residue Limit. MRLs include <u>draft</u> MRLs and <u>Codex</u> MRLs (CXLs). The MRLs recommended by the JMPR on the basis of its estimates of maximum residue levels enter the Codex procedure as draft MRLs. They become Codex MRLs when they have passed through the procedure and have been adopted by the Codex Alimentarius Commission.
MS	mass spectrometry or mass spectrometric detector (suffix to GC- or LC-)
MSD	mass-selective detection or detector
MS/MS	tandem mass spectrometry
NOAEL	no-observed-adverse-effect level
NMR	nuclear magnetic resonance
NPD	nitrogen/phosphorus detector
OECD	Organization for Economic Co-operation and Development
om	amount of organic matter in soil

PES	post extracted solids
PF	processing factor
PHI	pre-harvest interval
ppm	parts per million (used only with reference to the concentration of a pesticide in a diet, in all other contexts the terms mg/kg or mg/l are used)
$P_{ow}$	octanol–water partition coefficient
RAC	raw agricultural commodity
r.d.	relative density (formerly called specific gravity)
RfD	reference dose (usually in phrase “acute RfD”)
RSD	precision under repeatability conditions (measurements within one day or one run) expressed as relative standard deviation (= coefficient of variation)
SD	standard deviation
SPE	solid-phase extraction (may also describe a post-extraction clean-up process)
STMR	supervised trials median residue
STMR-P	supervised trials median residue in a processed commodity calculated by multiplying the STMR of the raw commodity by the corresponding processing factor
t	tonne (metric ton)
TAR	total applied (or administered) radioactivity
TLC	thin-layer chromatography
TRR	total radioactive residue
TMDI	theoretical maximum daily intake
TSD	thermionic specific detection or detector (equivalent to AFID, forerunners of NPD)
USDA	US Department of Agriculture
US FDA	US Food and Drug Administration
UV	ultraviolet (radiation)
W	the previous recommendation is withdrawn, or withdrawal of the existing Codex or draft MRL is recommended
WHO	World Health Organization

## **USE OF JMPR REPORTS AND EVALUATIONS BY REGISTRATION AUTHORITIES**

Most of the summaries and evaluations contained in this report are based on unpublished proprietary data submitted for use by JMPR in making its assessments. A registration authority should not grant a registration on the basis of an evaluation unless it has first received authorization for such use from the owner of the data submitted for the JMPR review or has received the data on which the summaries are based, either from the owner of the data or from a second party that has obtained permission from the owner of the data for this purpose.

## INTRODUCTION

The Report of the Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group (JMPR), held in Rome, 3-12 October 2006, contains a summary of the evaluations of residues in foods of the various pesticides considered, as well as information on the general principles followed by the Meeting (JMPR, 2006). The present document contains summaries of the residues data considered, together with the recommendations made.

The Evaluations are issued in two parts:

Part I: Residues (by FAO);

Part II: Toxicology (by WHO).

For those interested in both aspects of pesticide evaluation, both parts and the Report containing summaries of residues and toxicological considerations are available.

Some of the compounds considered at the Meeting were previously evaluated and reported on in earlier publications. In general, only new information is summarized in the relevant monographs but reference is made to previously published evaluations, which should also be consulted. In the case of older compounds which are re-evaluated as part of the periodic review programme of the CCPR, a review of all available data, including data which may have previously been submitted, is carried out. Compounds evaluated for the first time and those evaluated in the CCPR periodic review programme are identified in the Table of Contents.

Summaries of recommended MRLs, STMR and HR levels and assessments of dietary intake, are published as Annexes 1, 3 and 4 in the Report, and reference is made to this report.

The name of the compound appearing as the title of each monograph is followed by its Codex Classification Number in parentheses.

References to previous Reports and Evaluations of Joint Meetings are listed in Annex I.

### Acknowledgements

The monographs in these Evaluations were prepared by the following participants in the 2006 JMPR, for the FAO Panel of Experts on Pesticide Residues in Food and the Environment:

Dr. A. Ambrus, Dr U. Banasiak, Dr R. Bhula, Dr H. Chen, Mr B. Declercq, Dr E. Dutra Caldas, Dr S. Funk, Mr D. J. Hamilton, Dr C. Lentza-Rizos, Mr D. Lunn, Dr K. Mastovska, Dr B. C. Ossendorp, Dr Y. Yamada and Dr Yibing He.

**Note.** Any comment on pesticide residues in food and their evaluation should be addressed to the:

Plant Protection Service  
Plant Production and Protection Division  
Food and Agricultural Organization  
Viale delle Terme di Caracalla  
00100 Rome, Italy

### Reference

JMPR, 2006. Pesticide residues in Food – 2006. Report of 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, Rome, Italy, 3-12 October 2006. WHO and FAO, Rome, 2006.