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PLANT
PRODUCTION
AND PROTECTION
PAPER

232

Pesticide residues in food 2017

**Joint FAO/WHO Meeting
on Pesticide Residues**

REPORT 2017

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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
Geneva, Switzerland, 12–21 September 2017

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R, residue and analytical aspects; T, toxicological evaluation

* New compound

** Evaluated within the periodic review programme of the Codex Committee on Pesticide Residues

LIST OF PARTICIPANTS

2017 Joint FAO/WHO Meeting on Pesticide Residues WHO Headquarters; Geneva, 12 to 21 September 2017

- Professor Alan R. Boobis, Centre for Pharmacology & Therapeutics, Division of Experimental Medicine, Department of Medicine, Faculty of Medicine, Imperial College London, Hammersmith Campus, Ducane Road, London W12 0NN, United Kingdom (WHO Expert)
- Ms Marloes Busschers, Regulatory Affairs Manager Human Toxicology, Charles River Laboratories, Hambakenwetering 7, 5231 DD 's-Hertogenbosch, the Netherlands (WHO Expert)
- Dr Carl E. Cerniglia, Director, Division of Microbiology, National Center for Toxicological Research, HFT-250, US Food and Drug Administration (FDA), 3900 NCTR Road, Jefferson, AR 72079, United States of America (USA) (WHO Expert)
- Dr Julian Cudmore, Chemicals Regulation Division, Health & Safety Executive, Room 1E, Mallard House Kings Pool, 3, Peasholme Green, York YO1 7PX, United Kingdom (FAO Expert)
- Dr Ian Dewhurst, York, United Kingdom (WHO Rapporteur)
- Dr Michael Doherty, Office of Pesticide Programs, Health Effects Division, Risk Assessment Branch II, United States Environmental Protection Agency (US EPA), MS 7509C, Washington, DC 20460, USA (FAO Expert)
- Dr David A. Eastmond, Department of Molecular, Cell & Systems Biology, 2109 Biological Sciences Building, University of California, Riverside, CA 92521, USA (WHO Chairman)
- Dr Jochen Heidler Federal Institute for Risk Assessment Unit Residues and Analytical Methods, Department Pesticide Safety, Max-Dohrn-Strasse 8–10, 10589 Berlin, Germany (FAO Expert)
- Dr Salmaan Hussain Inayat- Hussain, Dept of Environmental Health Sciences, Yale School of Public Health, 60 College Street, New Haven CT 06510-8034, USA (WHO Expert)
- Mr Makoto Irie, Agricultural Chemicals Office, Plant Products Safety Division, Food Safety and Consumer Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950, Japan (FAO Expert)
- Dr Miriam Jacobs, Toxicology Department, Centre for Radiation, Chemical and Environmental Hazards, Public Health England, Chilton, Oxon OX11 0RQ, United Kingdom (WHO Expert)
- Dr Debabrata Kanungo, Chairman, Scientific Panel on Residues of Pesticides and Antibiotics, Food Safety and Standard Authority of India, Nityakshetra, 294/Sector-21D, Faridabad 121005, India (WHO Expert)
- Dr April Kluever, Toxicologist, Office of Food Additive Safety, Center for Food Safety and Applied Nutrition, US FDA, 2001 Campus Drive; HFS-275, College Park, MD 20740, USA (WHO Expert)
- Dr Claude Lambré, 12 rue de l'Hôtel Dieu, 77230 Dammartin en Goële, France (WHO Expert)
- Dr Mi-Gyung Lee, Dept. of Food Science & Biotechnology, College of Natural Science, Andong National University, #388 Songcheon-dong, Andong-si, Gyeongbuk 760-749, Republic of Korea (FAO Expert)
- Ms Kimberley Low, TOX-2, HEDII, Health Evaluation Directorate, Pest Management Regulatory Agency, Sir Charles Tupper Building, 2720 Riverside Drive, Address Locator:6605E, Ottawa, Ontario K1A 0K9, Canada (WHO Expert)
- Mr David Lunn, Principal Adviser (Residues), Plants, Food & Environment Directorate, Ministry for Primary Industries, PO Box 2526, Wellington 6140, New Zealand (FAO Rapporteur)
- Dr Dugald MacLachlan, Australian Government Department of Agriculture and Water Resources, GPO Box 858, Canberra, Australian Capital Territory (ACT) 2601, Australia (FAO Chairman)

- Ms Karin Mahieu, National Institute of Public Health and Environment, Centre for Nutrition Prevention and Health Services, Department of Food Safety PO Box 1, 3720 BA Bilthoven, the Netherlands (FAO Expert)
- Dr Farag Malhat, Central Agricultural Pesticide, Laboratory, Pesticide Residues and Environmental Pollution Department, 7-Nadi El-Saad Street, Dokki, Giza 12618, Egypt (FAO Expert)
- Dr Samuel Margerison, Chemistry and Manufacture Section, Scientific Assessment and Chemical Review Program, Australian Pesticides and Veterinary Medicines Authority (APVMA), PO Box 6182, Kingston, ACT 2604, Australia (FAO Expert)
- Professor Angelo Moretto, Department of Biomedical and Clinical Sciences, University of Milan, Director, International Centre for Pesticides and Health Risk Prevention, ASST Fatebenefratelli Sacco, Via GB Grassi 74, 20157 Milano, Italy (WHO Expert)
- Dr Lars Niemann, Toxicology of Active Substances and their Metabolites, German Federal Institute for Risk Assessment, Max-Dohrn-Strasse 8-10, D-10589 Berlin, Germany (WHO Expert)
- Dr Matthew Joseph O'Mullane, Section Manager, Product Safety Standards, Food Standards Australia New Zealand, 55 Blackall Street, Barton ACT 2600, Australia (WHO Expert)
- Dr Canping Pan, Department of Applied Chemistry College of Science, China Agricultural University, Yuanminyuan Western Road 2, Beijing 100193, People's Republic of China (FAO Expert)
- Dr David Schumacher, Toxicology of Active Substances and their Metabolites, German Federal Institute for Risk Assessment, Max-Dohrn Strasse 8-10, D-10589 Berlin, Germany (WHO Expert)
- Dr Prakashchandra V. Shah, Chief, Chemistry, Inerts and Toxicology Assessment Branch, Registration Division (MDTS 7505P), Office of Pesticide Programs, US EPA, 1200 Pennsylvania Avenue NW, Washington DC 20460, United States of America (WHO Expert)
- Ms Monique Thomas, Pest Management Regulatory Agency, Health Canada, 2720 Riverside Drive, Ottawa, Ontario, K1A 0K9, Canada (FAO Expert)
- Dr Luca Tosti, International Centre for Pesticides and Health Risk Prevention (ICPS), Asst Fatebenefratelli Sacco, Polo Universitario, Padiglione 17, Via G.B. Grassi 74, 20157 Milano, Italy (WHO Expert)
- Mrs Trijntje van der Velde-Koerts, Centre for Nutrition, Prevention and Health Services (VPZ) of the RIVM, Antonie van Leeuwenhoeklaan 9, PO Box 1, 3720 BA Bilthoven, the Netherlands (FAO Panel Member)
- Dr Gerrit Wolterink, Centre for Nutrition, Prevention and Health Services (VPZ), National Institute for Public Health and the Environment, Antonie van Leeuwenhoeklaan 9, 3720 BA Bilthoven, the Netherlands (WHO Expert)
- Dr Yukiko Yamada, Ministry of Agriculture, Forestry and Fisheries, 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950, Japan (FAO Panel Member)
- Dr Guibiao Ye, Institute for the Control of Agrochemicals, Ministry of Agriculture, People's Republic of China, No. 22 Maizidian street, Chaoyang District, Beijing 100125, People's Republic of China (FAO Expert)
- Dr Midori Yoshida, Commissioner, Food Safety Commission, Cabinet Office, Japan, Akasaka Park Bld. 22 Fl., 5-2-20 Akasaka Minato-ku, Tokyo 107-6122, Japan (WHO Expert)
- Dr Katsuhiko Yoshizawa, Mukogawa Women's University, 6-46 Ikebiraki-cho, Nishinomiya, Hyogo 663-8558, Japan (WHO Expert)
- Dr Jürg Zarn, Federal Food Safety and Veterinary Office FSVO, Schwarzenburgstrasse 155, CH-3003 Bern, Switzerland (WHO Expert)
- Ms Liying Zhang, Institute for the Control of Agrochemicals, Ministry of Agriculture, 22 Maizidian

Street, Chaoyang District, Beijing 100125, People's Republic of China (WHO Expert)

Secretariat

Mr Kevin Bodnaruk, 26/12 Phillip Mall, West Pymble, NSW 2073, Australia (FAO Editor)

Ms Gracia Brisco, Food Standards Officer, Joint FAO/WHO Food Standards Programme, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy (Codex Secretariat)

Mr Kennie Chang, Department of Food Safety and Zoonoses (FOS), World Health Organization, 1211 Geneva 27, Switzerland (WHO Secretariat)

Dr Jeevan Khurana, Weilburgerstrasse 25, 61250 Usingen, Germany (FAO Editor)

Ms Joanna Odrowaz, Toronto, Canada (WHO Editor)

Dr Xiongwu Qiao, Shanxi Academy of Agricultural Sciences, 2 Changfeng Street, Taiyuan, Shanxi , 030006, People's Republic of China (CCPR Chairman)

Dr Philippe Verger, JMPR Joint Secretary, Department of Food Safety and Zoonoses (FOS), World Health Organization, 1211 Geneva 27, Switzerland (WHO JMPR Joint Secretary)

Ms Yong Zhen Yang, Plant Production and Protection Division, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy (FAO JMPR Joint Secretary)

ABBREVIATIONS

AChE	acetylcholinesterase
ACN	acetonitrile
ADI	acceptable daily intake
AGISAR	Advisory Group on Integrated Surveillance of Antimicrobial Resistance
ai	active ingredient
ALP	alkaline phosphatase
AMR	antimicrobial resistance
AMU	antimicrobial use
AR	applied radioactivity
ARfD	acute reference dose
as	as received
asp gr fn	aspirated grain fraction
AU	Australia
AUC	area under the plasma concentration–time curve
BBCH	B iologischen Bundesanstalt, B undessortenamt und C hemische Industrie
BMD	benchmark dosing
bw	body weight
CA	Chemical Abstracts
CAC	Codex Alimentarius Commission
CAR	constitutive androstane receptor
CAS	Chemical Abstracts Service
CCFA	Codex Committee on Food Additives
CCN	Codex classification number (for compounds or commodities)
CCPR	Codex Committee on Pesticide Residues
cGAP	Critical GAP
C_{\max}	maximum concentration in blood or plasma
CSAF	chemical-specific adjustment factors
CYP	cytochrome
DAA	days after application
DALA	days after last application
DAT	days after treatment
DM	dry matter
DMCF	dimethylcarbonocyanidic amide (IN-N009)
DMOA	dimethyl(oxo)acetic acid (IN-D2708)

DMTO	methyl 2-(dimethylamino)-N-hydroxy-2-oxoethanimidothioate (IN-A2213 or oxamyl oxime)
DNA	deoxyribonucleic acid
DRA	dietary risk assessment
DT ₅₀	time required for 50% dissipation of the initial concentration
DT ₉₀	time required for 90% dissipation of the initial concentration
dw	dry weight
ECD	electron capture detector
EFSA	European Food Safety Authority
EHC	Environmental Health Criteria monograph
ESBL	extended-spectrum beta-lactamase
EU	European Union
F ₀	parental generation
F ₁	first filial generation
F ₂	second filial generation
FAO	Food and Agriculture Organization of the United Nations
FOB	functional observational battery
fw	fresh weight
GAP	good agricultural practice
GC	gas chromatography
GC-ECD	gas chromatography with electron capture detection
GC-FTD	gas chromatography with flame thermionic detection
GC-N-FID	gas chromatography with nitrogen selective flame ionization detection
GC/MS	gas chromatography/mass spectrometry
GC-NPD	gas chromatography coupled with nitrogen-phosphorus detector
GECDE	global estimate of chronic dietary exposure
GEMS/Food	Global Environment Monitoring System – Food Contamination Monitoring and Assessment Programme
GLASS	Global Antimicrobial Resistance Surveillance System
GLP	good laboratory practice
GPC	gel permeation chromatography
HBGV	health-based guidance values
HPLC	high performance liquid chromatography
HPLC-DAD	high performance liquid chromatography with diode array detection
HPLC-UV	high performance liquid chromatography with UV detector
HPPD	4-hydroxyphenylpyruvate dioxygenase

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
IEDI	international estimated daily intake
IESTI	international estimate of short-term dietary intake
IgM	immunoglobulin M
IN-A2213	methyl 2-(dimethylamino)- <i>N</i> -hydroxy-2-oxoethanimidothioate (DMTO or oxamyl oxime)
IN-D2708	dimethyl(oxo)acetic acid (DMOA)
IN-N009	dimethylcarbonocyanidic amide (DMCF)
IPC	infection prevention and control
IPCS	International Programme on Chemical Safety
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
JECFA	Joint FAO/WHO Expert Committee on Food Additives
JMPR	Joint FAO/WHO Meeting on Pesticide Residues
JP	Japan
LC ₅₀	median lethal concentration
LC-MS	Liquid chromatography with mass spectrometry
LC-UV	Liquid chromatography with UV detection
LD ₅₀	median lethal dose
LLNA	local lymph node assay
LOAEC	lowest-observed-adverse-effect concentration
LOAEL	lowest-observed-adverse-effect level
LOD	limit of detection
log P _{ow}	octanol-water partition coefficient
LOQ	limit of quantification
LSC	liquid scintillation counting
MCH	mean cell haemoglobin
MCV	mean corpuscular volume
MIC	minimum inhibitory concentration
MPPZ	5-amino-1,2-dihydro-4-(<i>o</i> -tolyl)pyrazol-3-one
MRL	maximum residue limit
mRNA	messenger ribonucleic acid
MS	mass spectrometry
MS/MS	tandem mass spectrometry

m/z	mass to charge ratio (mass unit for mass spectrometry)
NOAEC	no-observed-adverse-effect concentration
NOAEL	no-observed-adverse-effect level
OECD	Organisation for Economic Co-operation and Development
4-OH	4-hydroxyquinazoline
OIE	World Organisation for Animal Health
PBI	plant back interval
PES	post extraction solids
Pf	processing factor
PHI	pre-harvest interval
ppm	parts per million
PXR	pregnane X receptor
QuEChERS	Quick Easy Cheap Effective Rugged Safe
QSAR	quantitative structure–activity relationship
RAC	raw agricultural commodity
RSD	relative standard deviation
RTI	re-treatment interval
S-2188-DC	5-amino-1,2-dihydro-2-isopropyl-4-(<i>o</i> -tolyl)pyrazol-3-one
SC	suspension concentrate
SL	soluble liquid
SPE	solid phase extraction
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
$t_{1/2}$	half-life
T ₃	triiodothyronine
T ₄	thyroxine
T ₄ -UDPGT	thyroxine-uridine glucuronosyltransferase
TAT	tyrosine aminotransferase
TBPE	tertiary butylphenylethanol
TLC	thin-layer chromatography
T_{max}	time to reach maximum concentration
TRR	total radioactive residues
TSH	thyroid-stimulating hormone
UDPGT	uridine diphosphoglucuronosyltransferase
UK	United Kingdom

USA	United States of America
US/CAN	United States and Canada
USEPA	United States Environmental Protection Agency
VICH	International Cooperation on Harmonisation of Technical Requirements for Registration of Veterinary Medicinal Products
WG	wettable granule
WHO	World Health Organization
WP	wettable powder

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.

PESTICIDE RESIDUES IN FOOD

REPORT OF THE 2017 JOINT FAO/WHO MEETING OF EXPERTS

1. INTRODUCTION

A Joint Meeting of the Food and Agriculture Organization of the United Nations (FAO) Panel of Experts on Pesticide Residues in Food and the Environment and the World Health Organization (WHO) Core Assessment Group on Pesticide Residues (JMPR) was held in Geneva, Switzerland, from 12 to 21 September 2017. The FAO Panel Members met in preparatory sessions from 7–12 September.

Dr Kazuaki Miyagishima, Director, Department of Food Safety and Zoonoses – World Health Organization, WHO, warmly greeted the JMPR Meeting on behalf of WHO and FAO, and thanked FAO and WHO experts for their contributions to the 2017 JMPR.

Dr Miyagishima emphasized the need to increase public understanding of the work of JMPR and to make better known its contribution to food safety and security worldwide.

Dr Miyagishima recalled recent actions taken by WHO and FAO and in other international fora on antimicrobial resistance. To support a global action plan on antimicrobial resistance adopted in 2015, international agencies are joining forces to address issues of antibiotic use in plants, animals and humans and manage their impact on public health. Expectations are high on the ongoing work of JMPR in this regard.

During the meeting, the FAO Panel of Experts on Pesticide Residues in Food was responsible for reviewing residue and analytical aspects of the pesticides under consideration, including data on their metabolism, fate in the environment and use patterns, and for estimating the maximum levels of residues that might occur as a result of use of the pesticides according to good agricultural practice. The WHO Core Assessment Group on Pesticide Residues was responsible for reviewing toxicological and related data in order to establish acceptable daily intakes (ADIs) and acute reference doses (ARfDs), where necessary and possible.

The Meeting evaluated 39 pesticides, including nine new compounds and five compounds that were re-evaluated for toxicity or residues, or both, within the periodic review programme of the Codex Committee on Pesticide Residues (CCPR). The Meeting established ADIs and ARfDs, estimated maximum residue levels and recommended them for use by CCPR, and estimated supervised trials median residue (STMR) and highest residue (HR) levels as a basis for estimating dietary intakes.

The Meeting also estimated the dietary intakes (both short term and long term) of the pesticides reviewed and, on this basis, performed a dietary risk assessment in relation to their ADIs or ARfDs. Cases in which ADIs or ARfDs may be exceeded were clearly indicated in order to facilitate the decision-making process by CCPR.

The Meeting considered a number of general issues addressing current procedures for the risk assessment of chemicals, the evaluation of pesticide residues and the procedures used to recommend maximum residue levels.

2. GENERAL CONSIDERATIONS

2.1 Special studies on microbiological effects of pesticide residues in foods.

At the 2017 Joint FAO/WHO Meeting on Pesticide Residues in Food (JMPR), September 12–21, 2017 in Geneva, Switzerland, there was discussion on including, in the toxicological evaluation of pesticide residues, a microbiological assessment of the pesticide residues' adverse chronic and acute effects on the microorganisms in the human gastrointestinal tract. This is because pesticide residues in foods may have antimicrobial properties, and there is potential exposure of intestinal microbiota following ingestion of such residues in food. In this context, Joint FAO/WHO Committee on Food Additives (JECFA) routinely evaluates acute and chronic effects of veterinary drug residues in foods to determine the need to establish a microbiological acceptable daily intake (ADI). Using the same principles as JECFA, JMPR could undertake a corresponding microbiological assessment to determine the potential impact of pesticide residues on intestinal microbiota. For this purpose, the JECFA decision-tree approach, which complies with International Cooperation on Harmonisation of Technical Requirements for Registration of Veterinary Medicinal Products (VICH) GL36 and EHC 240, could be used.

The decision-tree approach initially seeks to determine if microbiologically active residues are entering the human colon. If the answer is “no”, a microbiological ADI is unnecessary and the toxicological or pharmacological ADI is used. However, should potentially microbiologically active residues be present in the colon, data on the two end-points of public health concern, disruption of the colonization barrier and increase of the population(s) of resistant bacteria, would be evaluated. During the decision-tree process, it is possible to give scientific justifications for omitting testing (i.e. the need for a microbiological ADI) for either one or both end-points.

There are a number of in vitro and in vivo methodologies and databases that could be used to derive a microbiological ADI. Some examples of in vitro studies are minimum inhibitory concentration (MIC) susceptibility testing against representative predominate intestinal microbiota and continuous culture flow chemostats systems; some examples of in vivo studies are human volunteer or laboratory animal models and human microbiota-associated animals studies using a range of relevant pesticide concentrations. In addition, faecal binding of residues to determine bioavailability, bioassays and chemical methods to determine biological activity of residues in the colon, potential of the intestinal microbiota to metabolize the residue and antimicrobial resistance studies can be evaluated. Once a microbiological ADI is determined, it is compared with the toxicological ADI and the more appropriate, usually the lower, used for the compound.

References

VICH. International Cooperation on Harmonisation of Technical Requirements for Registration of Veterinary Medicinal Products. VICH Guideline 36 (R). Studies to evaluate the safety of residues of veterinary drugs in human food: General approach to establish a microbiological ADI. Adopted at Step 7 of the VICH Process by the VICH Process by the VICH Steering Committee for implementation in February 2010. VICH. Brussels, 2010.

2.2 Use of historical control data

Following a recommendation of the 2016 JMPR, an electronic working group prepared a discussion document on “Binary data of animal toxicity studies: Recurring issues in their statistical evaluation and in the use of historical control data”. The objective of is eventually to provide expanded guidance on these topics for EHC240. The present Meeting discussed the draft and agreed with the overall structure and principles elaborated. A number of recommendations were made for revision. The Meeting concluded that the electronic working group should revise the document as part of the forthcoming EHC240 update process.

2.5 Further consideration of the process for establishing group MRLs: Update on the use of the revised commodity classification for vegetables

The JMPR welcomes the activities of the CCPR in revising the commodity groups for vegetables. However, the Meeting noted that the new commodity groups contain members that do not, or are unlikely to, have similar potential for residues as the representative crop. In particular, at the current Meeting consideration was given to recommending maximum residue levels for the subgroup of tomatoes and for the subgroup of peppers.

In the subgroup of tomatoes, Tomato and Cherry tomato are the commodities for which residue trials are typically available. The JMPR has not evaluated residue data on the other members in the group but notes that differences in rate of fruit growth, fruit size (e.g., Huckleberries) and in some cases the presence of a husk (e.g., Cape Gooseberry) covering the fruit lead the JMPR to suspect that residues in tomato or cherry tomatoes may not be representative of residues in the other commodities. In the absence of data on relative residues in these crops, the Meeting decided when data are available for tomatoes to recommend maximum residue levels individually for:

VO 2700 Cherry tomato *Lycopersicon esculentum* var. *cerasiforme* (Dunal) A. Gray

VO 0448 Tomato *Lycopersicon esculentum* Mill.; Syn: *Solanum lycopersicum* L.

Similarly for the subgroup of peppers, the Meeting noted that available information suggests residues in okra differ from those in peppers. While the JMPR is not aware of trials comparing residues in peppers, roselle and martynia, differences in crop growth habit, commodity size and shape lead the Meeting to suspect that residues in Bell and non-Bell peppers may not be representative of residues in the other commodities, i.e. okra, martynia and roselle. In the absence of data on relative residues in these crops, the Meeting decided when data are available for Bell and non-Bell peppers to recommend maximum residue level for:

VO 0051 Subgroup of Peppers (except okra, martynia and roselle).

The Meeting would welcome additional information comparing residues in the various members of the crop groups.

2.4 Field use pattern anticipated residue comparison model

The JMPR evaluates residue data from supervised crop field trials to select residue levels suitable for estimating maximum residue levels and for assessing dietary exposure. When conducting these evaluations, the JMPR selects data from trials reflecting the critical GAP allowed on product labels. Frequently, there may be discrepancies in multiple field trial use pattern parameters relative to the critical GAP, such as application rate, retreatment intervals, numbers of applications, and pre-harvest interval (PHI).

Historically, the JMPR has used best judgement to discern whether these discrepancies have a meaningful impact (i.e., $\pm 25\%$) on residues at harvest. In cases where residues are very short-lived or very long-lived, this decision is usually straight-forward. For other cases, the impact of these discrepancies is less clear. As an aid to help discern the impact of varying field trial use parameters on residues at harvest, the 2017 Meeting has developed a simple model that compares anticipated residues at harvest resulting from differences in application rates, retreatment intervals, and PHI. The tool incorporates dissipation kinetics to model residue decline following applications

Inputs to the model for application rates, retreatment intervals, and PHI are obtained directly from field trial reports and pesticide product labels. For dissipation kinetics, the model assumes single, first-order dissipation, and the half-life estimate needed by the model is derived from residue decline data. These half-life estimates are specific to each pesticide-crop combination, and need to be reasonably robust so as to have confidence in the model output.

The 2017 Meeting used this model only in its evaluation of cyclaniliprole, and the decision on whether to use the model was made on a crop-by-crop basis. As screening-level conditions for deriving half-life estimates, the Meeting used the following criteria:

1. At least three decline trials needed to be available,
2. Decline trials needed to include at least four time points,
3. Residues at the shortest interval after application needed to be well above the LOQ, and
4. Residues at the next harvest interval needed to be \geq LOQ (residues at later harvest intervals could be $<$ LOQ).

The Meeting noted that these half-life criteria should be refined as more experience is gained with using the tool. In addition, experience with the tool will help to discern limitations for input parameters (e.g., PHI ranges) and on the applicability of the tool (e.g., crop types).

Examples from the evaluation of cyclaniliprole, demonstrating output from the model and implementation decisions follow.

Table 1 Overview of GAP and trial use patterns, calculated median half-lives and comparison of the outcomes of trial and GAP use patterns

Crop group	Source	Rate g ai/ha	Max/season, g ai/ha	RTI	PHI	Total days (total of RTIs + PHI)	Half -life range, days [median] (no. of decline trials)	Trial - GAP
Pome fruit	GAP	$1 \times 60 + 3 \times 80$	300	10	7	$30 + 7 = 37$	4.5-21 [12] (n=15 apple +1 pear)	--
	trials	3×100	300	14	7	$28 + 7 = 35$		+2.3%
Small fruit (grapes)	GAP	$1 \times 60 + 3 \times 80$	300	7	7	$21 + 7 = 28$	[11] (n = 15 grapes)	--
	trials	3×100	300	7	7	$14 + 7 = 21$		+14%
Brassica's - head	GAP	4×60	240	5	1	$15 + 1 = 16$	1.0-2.0 [1.8] (n=1 cauliflower, 3 broccoli, 1 head cabbage)	--
	trials	3×60	240	7	1	$14 + 1 = 15$		-8%
	trials	3×100	300	7	1	$14 + 1 = 15$		+53%

General considerations

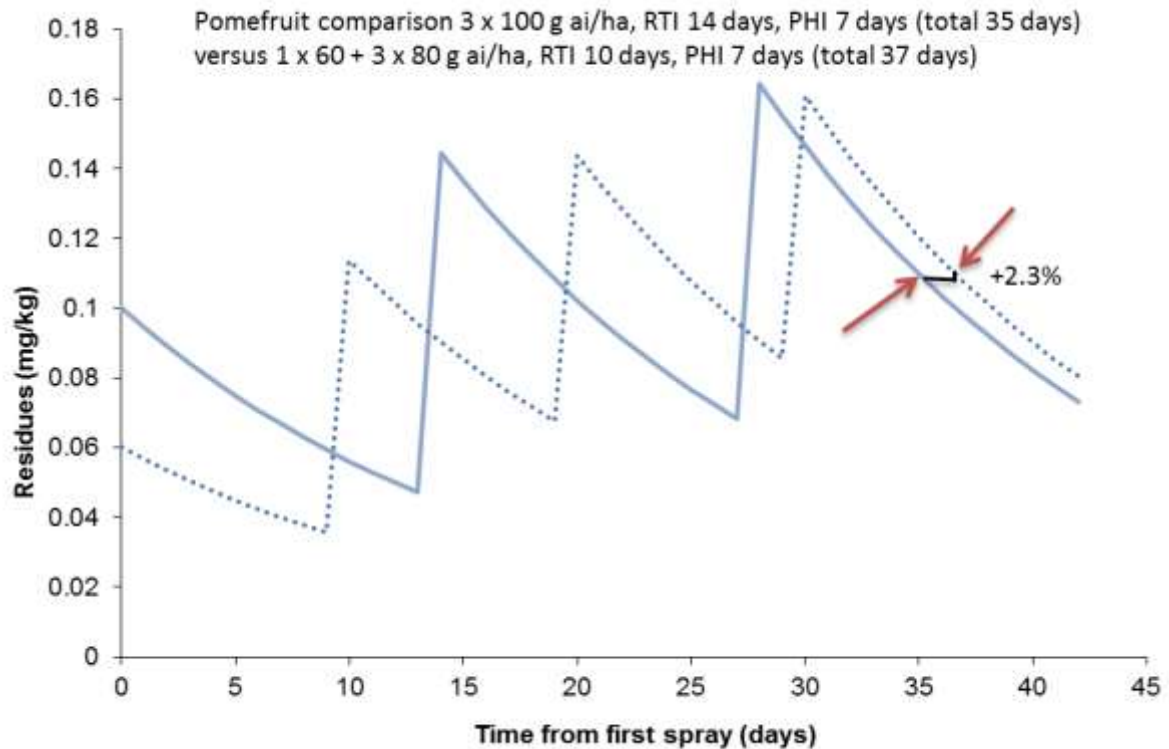


Figure 1 Estimated residue levels when following the pattern from critical GAP (————) or the pattern from field trials (.....); number of applications, dose rate and RTI vary (median half-life used was 12 days).

In Figure 1, the model indicated that the two use patterns would be expected to result in the same anticipated residues; therefore, the Meeting decided the trials were suitable for estimating maximum residues, STMRs, and HRs.

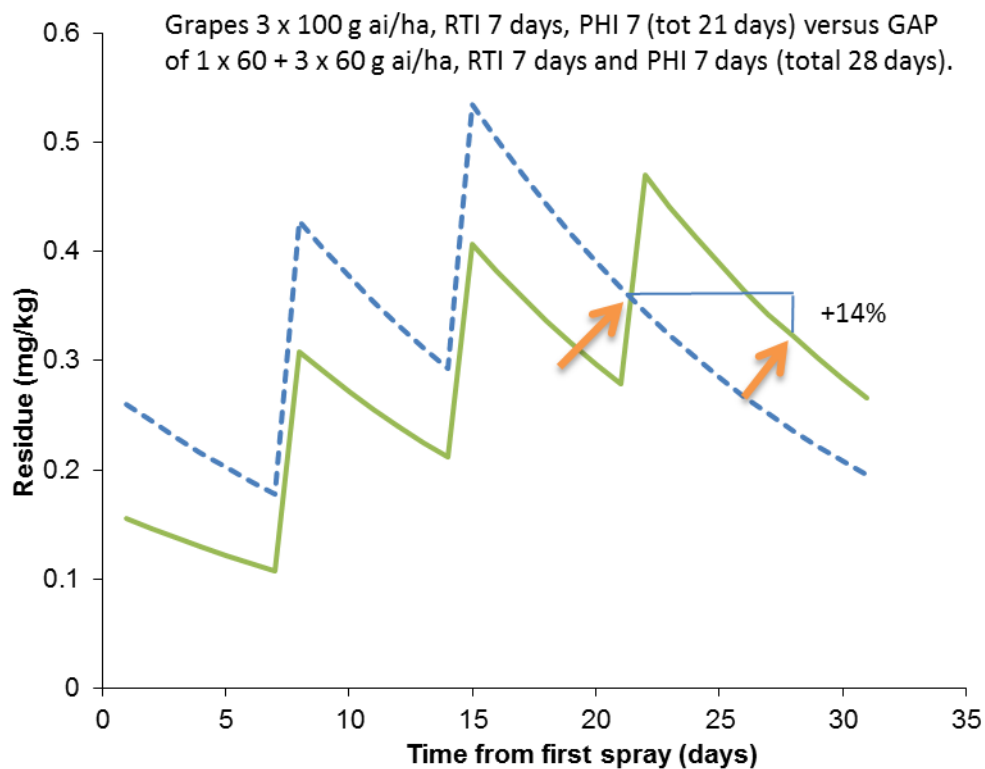


Figure 2 Estimated residue levels when following the pattern from critical GAP (——) or the pattern from field trials (---); number of applications and dose rate vary, RTIs are similar (median half-life used was 11 days).

In Figure 2, the model indicates that residues from field trials might be 14% higher than those expected at GAP. As this is within the $\pm 25\%$ limit typically acceptable to the Meeting, the Meeting decided the trials were suitable for estimating maximum residues, STMRs, and HRs.

General considerations

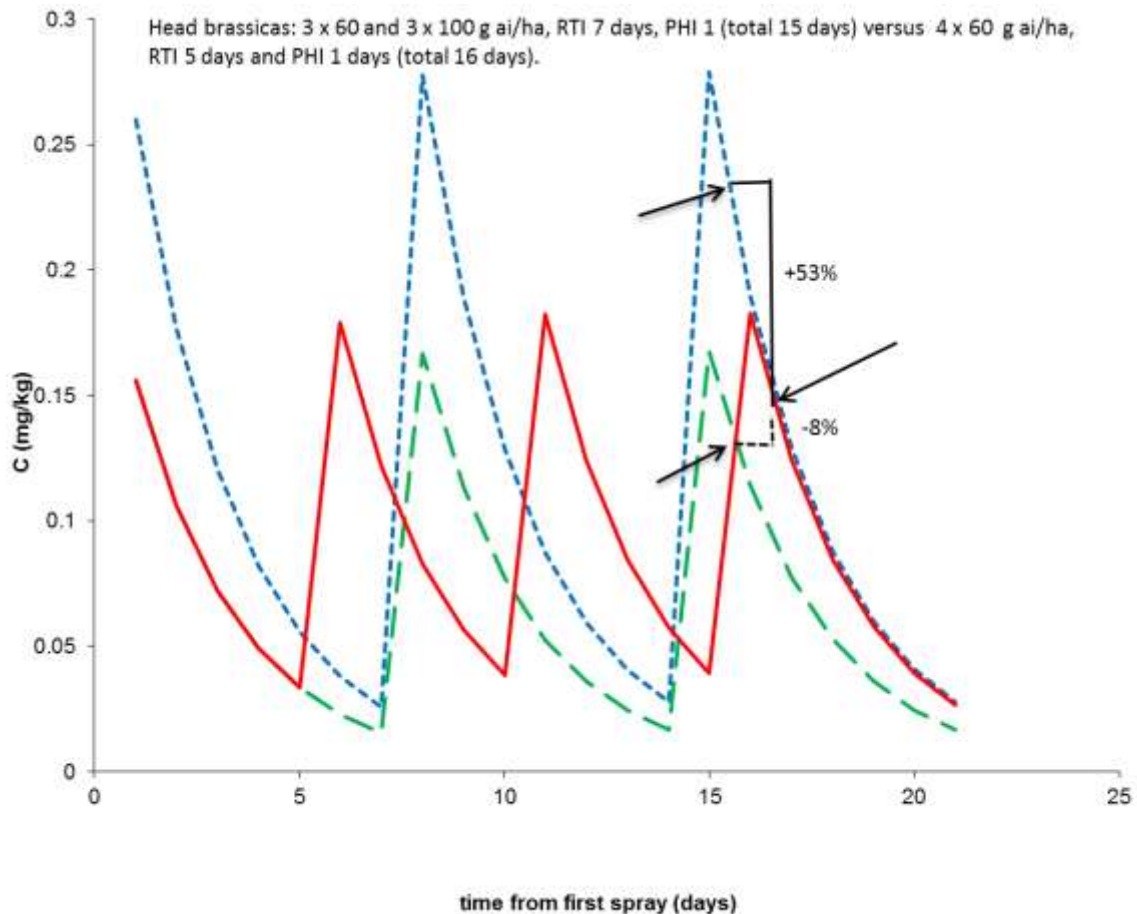


Figure 3 Estimated residue levels when following the pattern from GAP (—) or the pattern from field trials (--- and ---); number of applications and RTIs differ, dose rates either higher (small dot or similar (median half-life used was 1.8 days).

In Figure 3, the model indicates that residues from field trials conducted at a similar application rate but with fewer applications at a longer retreatment interval might be 8% lower than those expected at GAP. As this is within the $\pm 25\%$ limit typically acceptable to the Meeting, the Meeting decided the trials were suitable for estimating maximum residues, STMRs, and HRs. However, in trials conducted at a higher rate and at the same retreatment interval, residues might be outside of the 25% limit. The Meeting did not use those trials for estimating residues.

2.5 Update of the IESTI model used for the calculation of dietary intake: New large portion data

The 2003 Meeting agreed to adopt automated spreadsheet applications for the calculation of dietary intake in order to facilitate the process. The IESTI model was constructed by RIVM (National Institute for Public Health and the Environment) of the Netherlands acting as a WHO collaborating centre. The IESTI model incorporates available consumption data in Excel spreadsheets and, where possible, links this consumption data to the Codex Commodities for which HR(-P)s and STMR(-P)s are estimated. The IESTI model calculates the IESTI using the formulas as described in Chapter 6 of the 2016 FAO manual. To use the IESTI model, estimates on ARfD, STMR(-P), HR(-P) made by JMPR are entered according to the manual in the IESTI model. Then calculations and generation of a final table, are performed automatically.

The IESTI model has been updated in 2012 to contain large portion data from more countries and to add quality controls on the large portions submitted. The IESTI model has been updated for the present Meeting to contain the more recent large portion data from USA and Canada. In addition large portions from Belgium (BE), Denmark (DK), Ireland (IE), Italy (IT), Lithuania (LT), Poland (PL), Spain (ES) and the United Kingdom (UK) available in the EFSA PRIMo model rev2 have been incorporated in the current JMPR IESTI model. The current model now contains large portion data for Australia, Brazil, Canada, China, 12 European countries, Japan, Thailand and the USA.

The IESTI model will be available on the WHO website http://www.who.int/foodsafety/areas_work/chemical-risks/gems-food/en/

3. RESPONSES TO SPECIFIC ISSUES

3.1 CONCERNS RAISED BY THE CODEX COMMITTEE ON PESTICIDE RESIDUES (CCPR)

3.1.1 Quinclorac (287)

Background

Quinclorac was reviewed for the first time by the JMPR in 2015. The 2015 JMPR determined that the definition of residue for plant commodities for compliance with MRLs was quinclorac plus quinclorac conjugates.

The European Union submitted a concern form at the 49th CCPR. The EU noted that the residue definition should be reconsidered because quinclorac methyl ester, which is ten times more toxic than quinclorac, was not included in the residue definition for enforcement.

Comment by the JMPR

The 2015 JMPR evaluation noted that parent quinclorac was the major residue in examined crops and the metabolite quinclorac methyl ester while a significant residue in rape seeds was a minor residue in other primary crops and also in rotational crops. Quinclorac and its conjugates represented a significant component of the residue in all crops and is a suitable marker for compliance in all commodities.

Quinclorac methyl ester is included in the current residue definition for dietary exposure assessment.

Definition for estimating dietary intake: *Quinclorac plus quinclorac conjugates plus quinclorac methyl ester expressed as quinclorac.*

Further, the 2015 JMPR provided advice as to how the residues should be combined, taking into account the 10-fold higher toxicity of the methyl ester, that is:

Residue = (quinclorac+conjugates) + 10×quinclorac methyl ester

The calculation ensures consumer exposure is not underestimated.

The JMPR has examined the concern of the European Union that quinclorac methyl ester is included in the residue definitions for compliance established by the US EPA and Health Canada.

The definition in the USA reported in the Code of Federal Regulations is: Quinclorac (parent compound only) for barley, low growing berries, cattle commodities, cranberries, poultry commodities, goat commodities, grass, pig commodities, horse commodities, rhubarb, rice, sheep commodities, sorghum and wheat

AND

Quinclorac and its methyl ester for rapeseed

In Canada, the Health Canada MRL database lists the residue definition for quinclorac as: Quinclorac (parent compound). This residue definition applies to animal commodities as well as listed cereals

AND

Quinclorac and its methyl ester for pulses and oilseeds.

The Meeting reconfirms the residue definition established by the 2015 JMPR.

3.2 OTHER MATTERS OF INTEREST

3.2.1 *Abamectin (177)*

The Meeting received information on some new studies and several published papers on abamectin. However, these merely confirmed the information previously reviewed by the JMPR in 2015. The Meeting reiterated its view that the effects observed in pups in the developmental neurotoxicity studies serving as the basis of the ADI could not be attributed to the immaturity of p-glycoprotein in neonatal rats. The Meeting therefore did not find it appropriate to undertake a re-evaluation of abamectin. The previous evaluation remains unchanged.

3.2.2 *Acetamiprid (246)*

Following a request from CCPR, acetamiprid was on the agenda for follow up evaluation for toxicology. However, the Meeting did not receive any relevant new data regarding acetamiprid since the 2011 JMPR evaluation. Therefore, the Meeting did not find it appropriate to undertake a re-evaluation of acetamiprid and the previous evaluation is unchanged.

3.2.2 *Discussion items*

A number of presentations were made to the current Meeting for information and to update the JMPR on recent developments in related areas of pesticide risk assessment and management.

3.2.2.1 *Update from the Joint FAO/WHO Expert Committee on Food Additives (JECFA)*

Kim Petersen of the Department of Food Safety and Zoonoses, WHO, gave an overview of recent JECFA activities.

- An update on guidance on enzymes in food is due to be completed by the end of 2018.
- The development of a guidance on evaluating genotoxicity of compounds in food for human health risk assessment has been initiated.
- JECFA is also determining the best way to develop a guidance on dose–response assessment. The first step is to develop an issue paper, after which a more detailed guidance on application of BMDs will be written, likely by the end of 2018. The Core Group has been established but reviewers will be called for. A recommendation from the Meeting was to include a range of experts in the Working Group.

3.2.2.2 *Harmonization of the dietary exposure methodologies for compounds used both as pesticides and veterinary drugs – Harmonizing/combining exposure from veterinary drug and pesticide use*

The Agvet Residues Working Group is considering all available data as well as current approaches, that is, international estimated daily intake (IEDI) and global estimate of chronic dietary exposure (GECDE), to develop a model that harmonizes or combines exposure data from veterinary drug and pesticide use.

- The model needs to provide estimates for lifetime as well as shorter-than-lifetime exposure.
- Toxicological experts will provide information on the exposure durations on which ADIs are based and suggest the most suitable model for dietary exposure assessment.
- Residue experts are working on harmonizing the residue definition.

Currently, eight compounds used as pesticides and veterinary drugs are being assessed using national dietary estimates provided by Australia, Brazil, the People's Republic of China, Republic of Korea, New Zealand, United States and 11 European Union member states.

The Working Group is developing a description of the level of conservatism of the various international models. In addition, the experts will describe the range of exposure duration covered by the various international models.

3.2.2.3 Pesticides for vector control – New Pesticide Active Ingredients Developed Initially for Vector Control: Use of JMPR WHO Core Assessment Group for Pesticides

For manufacturers developing new active ingredients for vector control, options for the independent development of human health hazard and risk assessments can be limited. Manufacturers can submit to a national regulatory authority, but countries with well-established regulatory systems often do not have a domestic need for vector control products and therefore are unlikely to accept such pesticides for review. In light of this, manufacturers can request an independent human health risk evaluation of a new public health active ingredient through the WHO Core Assessment Group for Pesticides (CAGP), part of the JMPR as it also supports the risk assessment needs of other WHO programmes including the Prequalification Team Vector Control (PQT-VC) (previously the WHO Pesticide Evaluation Scheme [WHOPES]) and programmes to do with drinking-water.

Current CAGP resources can accommodate the review of up to two additional active ingredients the Prequalification Team Vector Control (PQT-VC) (previously the WHO Pesticide Evaluation Scheme [WHOPES]) refers each year. If more than two active ingredients require review within a year, an additional CAGP meeting will be scheduled for these new active ingredients.

3.2.2.4 Other Matters of Interest: Update from the International Programme on Chemical Safety (IPCS)

Richard Brown (IPCS, WHO) delivered a presentation on recent collaborative activities of the WHO Chemical Risk Assessment Network including a recently completed review of the global use of chemical-specific adjustment factors (CSAF) since the 2005 WHO/International Programme on Chemical Safety (IPCS) guidance. The analysis focused on methodology and lessons learned with a review of the process published (Bhat *et al.*, 2017).

3.2.2.5 Harmonization of the residue definition – determining the level of interest in a pilot project to achieve more harmonized residue definitions

Michael Kaethner (Bayer AG CropScience) addressed the Meeting on residue definition harmonisation between national governments and those established internationally by groups such as the JMPR.

As a way of achieving increased consistency he outlined a process in which during a review of new active substance dialogue between national regulators and FAO/WHO experts would be established to try and reach a non-binding harmonized residue definitions. With an expectation that following such discussions the proposed residue definition would be accepted by regulators and by the JMPR. He then sought feedback on the level of interest in establishing a possible pilot project to explore the issue in the future.

4. DIETARY RISK ASSESSMENT FOR PESTICIDE RESIDUES IN FOOD

4.1 CHRONIC DIETARY EXPOSURE

At the present Meeting, an International Estimated Daily Intake (IEDI) was calculated for each compound, for which an ADI was established. The IEDI was calculated by multiplying the median concentrations of residues (STMRs and/or STMR-Ps) for each commodity, for which maximum residue levels were recommended, by the average daily per capita consumption, estimated on the basis of the 17 GEMS/Food Consumption cluster diets. Detailed description of the method is in the Environment Health Criteria 240 (EHC 240).

The long-term dietary risk assessment was not conducted for acetamiprid, captan, 2,4-D, fluensulfone, imidacloprid and propylene oxide as no new recommendations for maximum residue levels were made.

Thiophanate-methyl was evaluated for toxicology and an ADI was established. The evaluation for residues was unable to be completed at the current Meeting. Long-term dietary risk assessments will be conducted when the compound is evaluated for residues.

Natamycin was evaluated for toxicology but an ADI was not established. The Meeting was unable to conduct a dietary risk assessment.

These IEDIs are expressed as a percentage of the upper bound of the ADIs for a 55 kg or 60 kg person, depending on the cluster diet (Table 1). The spreadsheet application is available at http://www.who.int/foodsafety/areas_work/chemical-risks/gems-food/en/.

The detailed calculations of chronic dietary exposure assessments are given in Annex 3.

Table 1 Summary of chronic dietary exposure assessments (IEDI)

CCPR code	Compound Name	ADI (mg/kg body weight)	Range of IEDI, as % of the upper bound of the ADI
229	Azoxystrobin	0–0.2	2–20%
295	Bicyclopyrone	0–0.003	3–20%
015	Chlormequat	0–0.05 as chloride 0–0.0388 as cation	1–7%
296	Cyclaniliprole	0–0.04	0–7%
207	Cyprodinil	0–0.03	8–70%
224	Difenoconazole	0–0.01	9–80%
297	Fenazaquin	0–0.05	0%
188	Fenpropimorph	0–0.004	0–10%
298	Fenpyrazamine	0–0.3	0–2%
193	Fenpyroximate	0–0.01	3–20%
282	Flonicamid	0–0.07	0–10%
243	Fluopyram	0–0.01	10–80%
285	Flupyradifurone	0–0.08	0–30%
302	Fosetyl-aluminium	0–1	1–30%
276	Imazamox	0–3	0%
267	Imazapyr	0–3	0%
299	Isoprothiolane	0–0.1	0–2%
249	Isopyrazam	0–0.06	0–1%
300	Natamycin	Not established	IEDI = 0.56 µg/kg bw/day
126	Oxamyl	0–0.009	0–1%
301	Phosphonic acid	0–1	See fosetyl-aluminium
258	Picoxystrobin	0–0.09	0–0.1%
160	Propiconazole	0–0.07	0–6%
232	Prothioconazole – ADI for prothioconazole-desthio	- 0–0.01	- 0–3%
287	Quinclorac	0–0.4	1%
251	Saflufenacil	0–0.05	20%

CCPR code	Compound Name	ADI (mg/kg body weight)	Range of IEDI, as % of the upper bound of the ADI
233	Spinetoram	0–0.05	0.3–2%
189	Tebuconazole	0–0.03	9%
213	Trifloxystrobin	0–0.04	1–7%
303	Triflumezopyrim	0–0.2	0–0.2%

4.2 ACUTE DIETARY EXPOSURE

At the present Meeting, an International Estimated Short-Term Intake (IESTI) was calculated for compounds for which an Acute Reference Dose was established. For each relevant food commodity, the highest expected residue (HR or HR-P) and the highest large portion data for general population (all ages) and children (6 years and under) were used for the calculation of the IESTI. In case a separate Acute Reference Dose was established for women of childbearing age, the IESTI was calculated for this population group only. Detailed description of the method is in the Environment Health Criteria 240 (EHC 240).

These IESTI results are expressed as a percentage of the ARfD (Table 2). The spreadsheet application is available at http://www.who.int/foodsafety/areas_work/chemical-risks/gems-food/en/

The short-term dietary risk assessment was not conducted for acetamiprid, captan, fluensulfone, imidacloprid and propylene oxide as no new recommendations for maximum residue levels were made.

The present (or previous) Meetings agreed that ARfDs for azoxystrobin, cyclanilprole, cyprodinil, 2,4-D, flonicamid, fosetyl-aluminium, imazapyr, isoprothiolane, phosphonic acid, saflufenacil, spinetoram, trifloxystrobin were unnecessary. For these compounds a short-term dietary exposure assessment was not undertaken.

Thiophanate-methyl was evaluated for toxicology and an ARfD was established. The evaluation for residues was unable to be completed at the current Meeting. Short-term dietary risk assessments will be conducted when the compound is evaluated for residues.

Natamycin was evaluated for toxicology and an ARfD was not established. The Meeting was unable to conduct a dietary risk assessment.

The detailed calculations of acute dietary exposure are given in Annex 4.

Table 2 Summary of acute dietary exposure assessments (IESTI)

CCPR code	Compound Name	ARfD (mg/kg bw)	Commodity (max % ARfD)	Exceeding, population, (country)
295	Bicyclopyrone	0.01 ^(w)	1–100%	
015	Chlormequat	0.05 as chloride; 0.0388 as cation	0–100%	
224	Difenoconazole	0.3	0–60%	
297	Fenazaquin	0.1	0–10%	
188	Fenpropimorph	0.1 ^(w) 0.4 ^(g)	0–5% 0–9%	
298	Fenpyrazamine	0.8	0–40%	
193	Fenpyroximate	0.01	Cherries total (110) Cherries raw (110) Plums raw (110) Plums dried (270) Peach total (130) Peach raw (130) Watermelon total (190) Tomato dried (310)	Child (Denmark) Child (Germany) Child (Thailand) Child (Australia) Child (Canada) Child (Japan) Child (Canada) Child (Australia)

CCPR code	Compound Name	ARfD (mg/kg bw)	Commodity (max % ARfD)	Exceeding, population, (country)
			Others (0–100)	
243	Fluopyram	0.5	100%	
285	Flupyradifurone	0.2	10–30%	
276	Imazamox	3	0%	
249	Isopyrazam	0.3	6–10%	
300	Natamycin	Not established	Max IESTI 5.6 µg/kg bw	
126	Oxamyl	0.009	0–20%	
258	Picoxystrobin	0.09	0–3%	
160	Propiconazole	0.3	0–10%	
232	Prothioconazole – ARfD for prothioconazole-desthio	- 0.01 ^(w) 1 ^(g)	- 0–30% 0%	
287	Quinclorac	2	0–2%	
189	Tebuconazole	0.3	2%	
303	Triflumezopyrim	1	0%	

^(w) Acute RfD set for women of child-bearing age;

^(g) Acute RfD set for general population including children

Possible refinement when the IESTI exceeds the ARfD

Fenpyroximate

As no alternative GAP was available to the Meeting to estimate lower HR values, no refinement of the short-term intake is currently possible for cherries, plums, peach, watermelon or tomatoes.

The Meeting recognized that the ARfD for fenpyroximate may be refined if new data become available.

6 FUTURE WORK

The items listed below are tentatively scheduled to be considered by the Meetings in 2019. The compounds listed include those recommended as priorities by the CCPR at its Forty-ninth and earlier Sessions and compounds scheduled for re-evaluation within the CCPR periodic review programme.

Updated calls for data are available at least ten months before each JMPR meeting from the web pages of the Joint Secretariat.

<http://www.fao.org/agriculture/crops/core-themes/theme/pests/jmpr/en/>

NEW COMPOUNDS

TOXICOLOGY EVALUATIONS	RESIDUE EVALUATIONS
Afidopyropen (999) (Insecticide) [USA]	Afidopyropen 999) (insecticide)
Metconazole (999) (Fungicide) Japan	Metconazole
Orthosulfamuron (999) (Herbicide)	Orthosulfamuron
Pyflubumide (999) (Acaricide)	Pyflubumide
Pyridate (999) (Herbicide)	Pyridate
Pyriproxyfen(999) (Insecticide) Japan	Pyriproxyfen
SYN546330/spirodion (999) (insecticide)	SYN546330/spirodion (999) (insecticide)
Triflumuron (999) (Insecticide)	Triflumuron
Valifenalate (999) (Fungicide)	Valifenalate

PERIODIC RE-EVALUATIONS

TOXICOLOGY	RESIDUE
Aldicarb (117)	Aldicarb (117)
Amitraz (122)	Amitraz (122)
Azinphos-methyl (002)	Azinphos-methyl (002)
Carbosulfan (145)/Carbofuran (096)	Carbosulfan (145)/Carbofuran (096)
Dimethoate (027)	Dimethoate (027)
Fenarimol (192)	Fenarimol (192)
Phosalone (060)	Phosalone (60)
Tolclofos-methyl (191)	Tolclofos-methyl (191)

NEW USES AND OTHER EVALUATIONS

TOXICOLOGY	RESIDUE
	Trinexapac-ethyl (271)
	Picoxystrobin (258)
	Benzovindiflupyr (261)
	Bifenthrin(178)
	Penthiopyrad (253)
Isoprothiolane (299)	Isoprothiolane (299)
	Clofentezine (156)
	Cyclaniliprole (296)
	Cypermethrins (118)
	Fenpyroximate (193)
	Fluazifop-p-butyl (283)
	Fluensulfone (265)
	Lambda-cyhalothrin (146)
	Isoxaflutole (268)
	Pyriofenone (999)
	Pyriproxyfen (999)
	Spirotetramat (234)
	Thiamethoxam(245)

NEW USES AND OTHER EVALUATIONS	
TOXICOLOGY	RESIDUE
	Tolfenpyrad (269)
XDE-777	XDE-777 (999)
	Buprofezin (173)
	Acephate (095)
	Acetamiprid (246)
	Bifenthrin (178)
	Carbendazim (72)
	Chlorpyrifos (017)
	Clofenapyr (254)
	Clothianidin (238)
	Cypermethrin (118)
	Deltamethrin (35)
	Diazinon (022)
	Dicofol (026)
	Dimethoate (027)
	Fenpropathrin (185)
	Imidacloprid (206)
	Metalaxyl (138)
	Methomyl (094)
	Parathion (059)
	Phosalone (060)
	Phorate (112)
	Profenofos (171)
	Propiconazole (160)
	Thiamethoxam (245)
	Triazophos (143)
	Spiromesifen (294)
	Lambda-cyhalothrin (146)

NEW USES AND OTHER EVALUATIONS - EXTRAORDINARY MEETING	
TOXICOLOGY	RESIDUE
	Chlorantraniliprole (230)
Chlorothalonil (81)	Chlorothalonil (081)
	Mesotrione (277)
	Thiabendazole (065)
	S-Methoprene (147)
	Acetochlor (280)
	Tebuconazole (189)
	Flupyradifurone (285)
Boscalid (221)	Boscalid (221)
	Mandestrobin (999)
	Pendimethalin (292)
	Fosetyl-AI (302)
	Cyantraniliprole (263)
	Cyprodinil (207)
	Azoxystrobin (229)
	Dicamba (240)
	Flonicamid (282)
	Metaflumizone (236)

7 CORRIGENDA

Pesticide Residues in Food 2016. 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. FAO Plant Production and Protection Paper, 229, 2016

Changes are shown in bold

Fipronil (202)

Recommendations Page 92

Definition of the residue (for dietary risk assessment) for animal commodities: *fipronil, fipronil-desulfinyl, fipronil-sulfone and fipronil-thioether for plant and animal commodities, expressed as fipronil*

Annex 1 Page 425

Definition of the residue (for dietary risk assessment) for animal commodities: *fipronil, fipronil-desulfinyl, fipronil-sulfone and fipronil-thioether for plant and animal commodities, expressed as fipronil*

Annex 6

ANNEX 6: LIVESTOCK DIETARY BURDEN

BICYCLOPYRONE (295)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	0.363	HR	25	1.45		20	100			0.2904	1.452	
Barley hay	AF/AS	0.68	HR	88	0.77	15				0.115909			
Corn, field forage/silage	AF/AS	0.29	HR	40	0.73		60			0.435			
Wheat asp gr fn	CM/CF	0.177	STMR	85	0.21	5				0.010412			
Barley grain	GC	0.011	STMR	88	0.01	50	20		70	0.00625	0.0025		0.00875
Total						70	100	100	70	0.132571	0.7279	1.452	0.00875

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	0.363	HR	25	1.45	20	20	60		0.2904	0.2904	0.8712	
Corn, field forage/silage	AF/AS	0.29	HR	40	0.73	25	40	20	50	0.18125	0.29	0.145	0.3625
Barley grain	GC	0.011	STMR	88	0.01	45	40	20	40	0.005625	0.005	0.0025	0.005
Total						90	100	100	90	0.477275	0.5854	1.0187	0.3675

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley grain	GC	0.011	STMR	88	0.01	75	70	15	10	0.009375	0.00875	0.001875	0.00125
Total						75	70	15	10	0.009375	0.00875	0.001875	0.00125

POULTRY LAYER										MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	0.363	HR	25	1.45		10				0.1452			
Barley grain	GC	0.011	STMR	88	0.01	75	90	15		0.009375	0.01125	0.001875		
Total						75	100	15		0.009375	0.15645	0.001875		

BICYCLOPYRONE (295)**ESTIMATED MEAN DIETARY BURDEN**

BEEF CATTLE										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Corn, field forage/silage	AF/AS	0.11	STMR/STMR-P	40	0.28	15	80	80		0.04125	0.22	0.22		
Wheat asp gr fn	CM/CF	0.177	STMR/STMR-P	85	0.21	5				0.010412				
Barley straw	AF/AS	0.115	STMR/STMR-P	89	0.13			20				0.02584		
Barley grain	GC	0.011	STMR/STMR-P	88	0.01	50	20		70	0.00625	0.0025		0.00875	
Total						70	100	100	70	0.057912	0.2225	0.24584	0.00875	

DAIRY CATTLE										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Corn, field forage/silage	AF/AS	0.11	STMR/STMR-P	40	0.28	45	60	80	50	0.12375	0.165	0.22	0.1375	
Barley grain	GC	0.011	STMR/STMR-P	88	0.01	45	40	20	40	0.005625	0.005	0.0025	0.005	
Total						90	100	100	90	0.129375	0.17	0.2225	0.1425	

POULTRY BROILER										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Barley grain	GC	0.011	STMR/STMR-P	88	0.01	75	70	15	10	0.009375	0.00875	0.00188	0.00125	
Total						75	70	15	10	0.009375	0.00875	0.00188	0.00125	

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POULTRY LAYER										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Corn, field forage/silage	AF/AS	0.11	STMR/STMR-P	40	0.28		10				0.0275			
Barley grain	GC	0.011	STMR/STMR-P	88	0.01	75	90	15		0.009375	0.01125	0.00188		
Total						75	100	15		0.009375	0.03875	0.00188		

CHLORMEQUAT CHLORIDE (015)

ESTIMATED MAXIMUM DIETARY BURDEN													
BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	25	HR	25	100.00		20	100			20	100	
Wheat hay	AF/AS	55	HR	88	62.50	15				9.375			
Barley straw	AF/AS	30	HR	89	33.71		10				3.371		
Wheat milled bypds	CM/CF	1.7	STMR	88	1.93	40	30		55	0.772727	0.58		1.0625
Oat grain	GC	1.3	STMR	89	1.46		40		45		0.584		0.657303
Rye grain	GC	1.1	STMR	88	1.25	20				0.25			
Barley grain	GC	0.37	STMR	88	0.42	25				0.105114			
Total						100	100	100	100	10.50284	24.53	100	1.719803

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	25	HR	25	100.00	20	20	60		20	20	60	
Triticale hay	AF/AS	51	HR	88	57.95			10				5.795	
Barley straw	AF/AS	30	HR	89	33.71		10				3.371		
Oat hay	AF/AS	3.5	HR	90	3.89	10		20		0.388889		0.778	
Wheat milled bypds	CM/CF	1.7	STMR	88	1.93	30	30	10	45	0.579545	0.58	0.193	0.869318
Oat grain	GC	1.3	STMR	89	1.46	20	40		5	0.292135	0.584		0.073034
Barley grain	GC	0.37	STMR	88	0.42	20			35	0.084091			0.147159
Brewer's grain dried	SM	0.007	STMR	92	0.01				15				0.001141
Total						100	100	100	100	21.34466	24.53	66.77	1.090652

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat milled bypds	CM/CF	1.7	STMR	88	1.93	50	20	20	5	0.965909	0.386	0.386	0.096591
Oat grain	GC	1.3	STMR	89	1.46	50	70	15		0.730337	1.022	0.219	
Brewer's grain dried	SM	0.007	STMR	92	0.01		10				8E-04		
Distiller's grain dried	SM	0.007	STMR	92	0.01				5				0.00038
Total						100	100	35	10	1.696246	1.41	0.605	0.096971

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POULTRY LAYER										MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	25	HR	25	100.00		10				10			
Wheat milled bypds	CM/CF	1.7	STMR	88	1.93	50	20	20	30	0.965909	0.386	0.386	0.579545	
Oat grain	GC	1.3	STMR	89	1.46	50	70	15		0.730337	1.022	0.219		
Distiller's grain dried	SM	0.007	STMR	92	0.01				5				0.00038	
Total						100	100	35	35	1.696246	11.41	0.605	0.579926	

CHLORMEQUAT CHLORIDE (015)

ESTIMATED MEAN DIETARY BURDEN														
BEEF CATTLE										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	8.7	STMR/STMR-P	25	34.80		20	100			6.96	34.8		
Wheat hay	AF/AS	13	STMR/STMR-P	88	14.77	15				2.215909				
Barley straw	AF/AS	4.15	STMR/STMR-P	89	4.66		10				0.466			
Wheat milled bypds	CM/CF	1.7	STMR/STMR-P	88	1.93	40	30		55	0.772727	0.58		1.0625	
Oat grain	GC	1.3	STMR/STMR-P	89	1.46		40		45		0.584		0.6573	
Rye grain	GC	1.1	STMR/STMR-P	88	1.25	20				0.25				
Barley grain	GC	0.37	STMR/STMR-P	88	0.42	25				0.105114				
Total						100	100	100	100	3.34375	8.59	34.8	1.7198	

DAIRY CATTLE										MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	8.7	STMR/STMR-P	25	34.80	20	20	60		6.96	6.96	20.88		
Triticale hay	AF/AS	12	STMR/STMR-P	88	13.64	0		10		0		1.364		
Barley straw	AF/AS	4.15	STMR/STMR-P	89	4.66	0	10			0	0.466			
Wheat milled bypds	CM/CF	1.7	STMR/STMR-P	88	1.93	30	30	30	45	0.579545	0.58	0.58	0.86932	
Oat grain	GC	1.3	STMR/STMR-P	89	1.46	20	40		5	0.292135	0.584		0.07303	
Oat hay	AF/AS	0.93	STMR/STMR-P	90	1.03	10				0.103333				
Barley grain	GC	0.37	STMR/STMR-P	88	0.42	20			35	0.084091			0.14716	
Brewer's grain dried	SM	0.007	STMR/STMR-P	92	0.01	0			15	0			0.00114	

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Total 100 100 100 100 8.019105 8.59 22.82 1.09065

POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat milled													
bypdts	CM/CF	1.7	STMR/STMR-P	88	1.93	50	20	20	5	0.965909	0.386	0.386	0.09659
Oat grain	GC	1.3	STMR/STMR-P	89	1.46	50	70	15		0.730337	1.022	0.219	
Brewer's grain dried	SM	0.007	STMR/STMR-P	92	0.01		10				8E-04		
Distiller's grain dried	SM	0.007	STMR/STMR-P	92	0.01				5				0.00038
Total						100	100	35	10	1.696246	1.41	0.605	0.09697

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	8.7	STMR/STMR-P	25	34.80		10				3.48		
Wheat milled													
bypdts	CM/CF	1.7	STMR/STMR-P	88	1.93	50	20	20	30	0.965909	0.386	0.386	0.57955
Oat grain	GC	1.3	STMR/STMR-P	89	1.46	50	70	15		0.730337	1.022	0.219	
Distiller's grain dried	SM	0.007	STMR/STMR-P	92	0.01				5				0.00038
Total						100	100	35	35	1.696246	4.889	0.605	0.57993

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CYCLANILIPROLE (296)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Kale leaves	AM/AV	6.5	HR	15	43.33		20				8.667			
Grape pomace, wet	AB	0.24	STMR	15	1.60			20					0.32	
Apple pomace, wet	AB	0.19	STMR	40	0.48		20				0.095			
Corn, field stover	AF/AS	0.18	HR	83	0.22	15	25	40		0.033	0.054		0.087	
Millet hay	AF/AS	0.18	HR	85	0.21			40					0.085	
Barley straw	AF/AS	0.18	HR	89	0.20		5				0.01			
Corn, field forage/silage	AF/AS	0.026	HR	40	0.07		30				0.02			
Total						15	100	100		0.033	8.845		0.491	

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Kale leaves	AM/AV	6.5	HR	15	43.33		20	40			8.667		17.33	
Grape pomace, wet	AB	0.24	STMR	15	1.60			20					0.32	
Apple pomace, wet	AB	0.19	STMR	40	0.48	10	10			0.048	0.048			
Corn, field stover	AF/AS	0.18	HR	83	0.22	15	20	40		0.033	0.043		0.087	
Millet hay	AF/AS	0.18	HR	85	0.21	5				0.011				
Rye straw	AF/AS	0.18	HR	88	0.20				5					0.01
Barley straw	AF/AS	0.18	HR	89	0.20		10				0.02			
Oat hay	AF/AS	0.18	HR	90	0.20	10				0.020				
Sorghum, grain forage	AF/AS	0.026	HR	35	0.07	10			35	0.007				0.026
Corn, field forage/silage	AF/AS	0.026	HR	40	0.07	5	40		10	0.003	0.026			0.007
Total						55	100	100	50	0.121	8.804		17.74	0.043

POULTRY BROILER										MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP

No feed items applicable!

POULTRY LAYER										MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley straw	AF/AS	0.18	HR	89	0.20		5				0.01		
Wheat forage	AF/AS	0.026	HR	25	0.10		5				0.005		
Total							10				0.015		

CYCLANILIPROLE (296)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE										MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Kale leaves	AM/AV	4	STMR/STMR-P	15	26.67		20				5.333		
Grape pomace, wet	AB	0.24	STMR/STMR-P	15	1.60			20				0.32	
Apple pomace, wet	AB	0.19	STMR/STMR-P	40	0.48		20				0.095		
Corn, field stover	AF/AS	0.0475	STMR/STMR-P	83	0.06	15	25	40		0.008584	0.014	0.023	
Millet hay	AF/AS	0.0475	STMR/STMR-P	85	0.06			40				0.022	
Barley straw	AF/AS	0.0475	STMR/STMR-P	89	0.05		5				0.003		
Corn, field forage/silage	AF/AS	0.01	STMR/STMR-P	40	0.03		30				0.008		
Total						15	100	100		0.008584	5.453	0.365	

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DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Kale leaves	AM/AV	4	STMR/STMR-P	15	26.67		20	40			5.333	10.67		
Grape pomace, wet	AB	0.24	STMR/STMR-P	15	1.60	0		20		0			0.32	
Apple pomace, wet	AB	0.19	STMR/STMR-P	40	0.48	10	10			0.0475	0.048			
Corn, field stover	AF/AS	0.0475	STMR/STMR-P	83	0.06	15	20	40		0.008584	0.011	0.023		
Millet hay	AF/AS	0.0475	STMR/STMR-P	85	0.06	5				0.002794				
Rye straw	AF/AS	0.0475	STMR/STMR-P	88	0.05	0			5	0				0.003
Barley straw	AF/AS	0.0475	STMR/STMR-P	89	0.05	0	10			0	0.005			
Sorghum, grain forage	AF/AS	0.01	STMR/STMR-P	35	0.03	20			35	0.005714				0.01
Corn, field forage/silage	AF/AS	0.01	STMR/STMR-P	40	0.03	5	40		10	0.00125	0.01			0.003
Total						55	100	100	50	0.065843	5.408	11.01		0.015

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Barley straw	AF/AS	0.0475	STMR/STMR-P	89	0.05		5				0.003			
Wheat forage	AF/AS	0.01	STMR/STMR-P	25	0.04		5				0.002			
Total							10				0.005			

DIFENOCONAZOLE (224)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Grape pomace, wet	AB	6.2	STMR	15	41.33			20					8.267
Potato process waste	AB	3.8	STMR	12	31.67	30	40			9.500	12.67		
Rice straw	AF/AS	10	HR	90	11.11		10	60	55		1.111	6.667	6.111
Potato culls	VR	1.9	HR	20	9.50	30	30	10		2.850	2.85	0.95	
Soybean asp gr fn	SM	6.22	STMR	85	7.32	5				0.366			
Beet, mangel fodder	AM/AV	0.95	HR	15	6.33		20				1.267		
Rice hulls	CM/CF	3.6	STMR	90	4.00			5				0.2	
Bean vines	AL	0.85	HR	35	2.43			5				0.121	
Wheat straw	AF/AS	1.2	HR	88	1.36	10				0.136			
Rice grain	GC	1.1	STMR	88	1.25	20				0.250			
Rice bran/pollard	CM/CF	0.76	STMR	90	0.84	5			20	0.042			0.169
Soybean hulls	SM	0.02	STMR	90	0.02				5				0.001
Soybean seed	VD	0.01	STMR	89	0.01				15				0.002
Soybean meal	SM	0.004	STMR	92	0.00				5				0.00
Total						100	100	100	100	13.144	17.89	16.2	6.283

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Grape pomace, wet	AB	6.2	STMR	15	41.33			20					8.267
Potato process waste	AB	3.8	STMR	12	31.67	10	30			3.167	9.5		
Rice straw	AF/AS	10	HR	90	11.11		5	20	25		0.556	2.222	2.778
Potato culls	VR	1.9	HR	20	9.50	10	30	10		0.950	2.85	0.95	
Beet, mangel fodder	AM/AV	0.95	HR	15	6.33		25				1.583		
Rice hulls	CM/CF	3.6	STMR	90	4.00			10				0.4	
Bean vines	AL	0.85	HR	35	2.43		10	40			0.243	0.971	
Almond hulls	AM/AV	1.24	STMR	90	1.38	10				0.138			
Wheat straw	AF/AS	1.2	HR	88	1.36	10				0.136			
Rice grain	GC	1.1	STMR	88	1.25	20				0.250			
Rice bran/pollard	CM/CF	0.76	STMR	90	0.84	15			10	0.127			0.084
Canola meal	SM	0.03	STMR	88	0.03	10				0.003			
Corn, sweet forage	AF/AS	0.01	HR	48	0.02	15				0.003			
Soybean seed	VD	0.01	STMR	89	0.01				10				0.001

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DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Soybean meal	SM	0.004	STMR	92	0.00				55				0.002
Total						100	100	100	100	4.774	14.73	12.81	2.866

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Potato culls	VR	1.9	HR	20	9.50		10				0.95		
Rice grain	GC	1.1	STMR	88	1.25	20		50		0.250		0.625	
Rice bran/pollard	CM/CF	0.76	STMR	90	0.84	10	10	20	5	0.084	0.084	0.169	0.042
Canola meal	SM	0.03	STMR	88	0.03	15	18	5		0.005	0.006	0.002	
Soybean seed	VD	0.01	STMR	89	0.01	20	20	15		0.002	0.002	0.002	
Sunflower meal	SM	0.01	STMR	92	0.01	10		10		0.001		0.001	
Soybean meal	SM	0.004	STMR	92	0.00				35		1E-03		0.002
Total						75	80	100	40	0.343	1.044	0.798	0.044

POULTRY LAYER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Potato culls	VR	1.9	HR	20	9.50		10				0.95		
Wheat straw	AF/AS	1.2	HR	88	1.36		10				0.136		
Cabbage heads, leaves	AM/AV	0.19	HR	15	1.27		5				0.063		
Rice grain	GC	1.1	STMR	88	1.25	20		50		0.250		0.625	
Rice bran/pollard	CM/CF	0.76	STMR	90	0.84	10	5	20	20	0.084	0.042	0.169	0.169
Canola meal	SM	0.03	STMR	88	0.03	15	10	5		0.005	0.003	0.002	
Soybean seed	VD	0.01	STMR	89	0.01	20	15	15		0.002	0.002	0.002	
Sunflower meal	SM	0.01	STMR	92	0.01	10		10		0.001		0.001	
Soybean meal	SM	0.004	STMR	92	0.00				30		7E-04		0.00
Total						75	70	100	50	0.343	1.198	0.798	0.17

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POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Potato culls	VR	1.2	STMR/STMR-P	20	6.00		10					0.6	
Rice grain	GC	1.1	STMR/STMR-P	88	1.25	20		50		0.25		0.625	
Rice bran/pollard	CM/CF	0.76	STMR/STMR-P	90	0.84	10	10	20	5	0.08	0.084	0.169	0.042
Canola meal	SM	0.03	STMR/STMR-P	88	0.03	15	18	5		0.01	0.006	0.002	
Soybean seed	VD	0.01	STMR/STMR-P	89	0.01	20	20	15		0.00	0.002	0.002	
Sunflower meal	SM	0.01	STMR/STMR-P	92	0.01	10		10		0.00		0.001	
Soybean meal	SM	0.004	STMR/STMR-P	92	0.00		22		35		1E-03		0.002
Total						75	80	100	40	0.342892	0.694	0.798	0.044

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Potato culls	VR	1.2	STMR/STMR-P	20	6.00		10					0.6	
Rice grain	GC	1.1	STMR/STMR-P	88	1.25	20		50		0.25		0.625	
Rice bran/pollard	CM/CF	0.76	STMR/STMR-P	90	0.84	10	5	20	20	0.084444	0.042	0.169	0.169
Wheat straw	AF/AS	0.685	STMR/STMR-P	88	0.78			10			0.078		
Cabbage heads, leaves	AM/AV	0.035	STMR/STMR-P	15	0.23			5			0.012		
Canola meal	SM	0.03	STMR/STMR-P	88	0.03	15	10	5		0.005114	0.003	0.002	
Soybean seed	VD	0.01	STMR/STMR-P	89	0.01	20	15	15		0.002247	0.002	0.002	
Sunflower meal	SM	0.01	STMR/STMR-P	92	0.01	10		10		0.001087		0.001	
Soybean meal	SM	0.004	STMR/STMR-P	92	0.00		15		30		0.001		0.00
Total						75	70	100	50	0.342892	0.737	0.798	0.17

FENPROPIMORPH (188)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley hay	AF/AS	2.4	HR	88	2.73	15		100		0.409		2.727	
Rye straw	AF/AS	2.4	HR	88	2.73		20				0.545		
Barley straw	AF/AS	2.4	HR	89	2.70		10				0.27		
Beet, sugar tops	AM/AV	0.19	HR	23	0.83		20				0.165		
Barley grain	GC	0.075	STMR	88	0.09	50	50		70	0.043	0.043		0.06
Beet, sugar dried pulp	AB	0.0442	STMR	88	0.05	15			5	0.008			0.003
Brewer's grain dried	SM	0.04488	STMR	92	0.05				25				0.012
Wheat milled bypds	CM/CF	0.0435	STMR	88	0.05	20				0.010			
Total						100	100	100	100	0.469	1.023	2.727	0.074

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley hay	AF/AS	2.4	HR	88	2.73	20		50		0.545		1.364	
Rye straw	AF/AS	2.4	HR	88	2.73		20		5		0.545		0.136
Barley straw	AF/AS	2.4	HR	89	2.70		10				0.27		
Oat hay	AF/AS	2.4	HR	90	2.67	10		50		0.267		1.333	
Beet, sugar tops	AM/AV	0.19	HR	23	0.83		30				0.248		
Barley grain	GC	0.075	STMR	88	0.09	45	40		40	0.038	0.034		0.034
Beet, sugar dried pulp	AB	0.0442	STMR	88	0.05	15			40	0.008			0.02
Brewer's grain dried	SM	0.04488	STMR	92	0.05				15				0.007
Wheat milled bypds	CM/CF	0.0435	STMR	88	0.05	10				0.005			
Total						100	100	100	100	0.863	1.097	2.697	0.198

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POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Barley grain	GC	0.075	STMR	88	0.09	75	70	15	10	0.064	0.06	0.013	0.009	
Brewer's grain dried	SM	0.04488	STMR	92	0.05		10				0.005			
Wheat milled bypds	CM/CF	0.0435	STMR	88	0.05	25	20	20	5	0.012	0.01	0.01	0.002	
Rye grain	GC	0.015	STMR	88	0.02			35				0.006		
Total						100	100	70	15	0.076	0.074	0.029	0.011	

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Barley straw	AF/AS	2.4	HR	89	2.70		5				0.135			
Beet, sugar tops	AM/AV	0.19	HR	23	0.83		5				0.041			
Barley grain	GC	0.075	STMR	88	0.09	75	90	15		0.064	0.077	0.013		
Wheat milled bypds	CM/CF	0.0435	STMR	88	0.05	25		20	30	0.012		0.01	0.015	
Rye grain	GC	0.015	STMR	88	0.02			20				0.003		
Total						100	100	55	30	0.076	0.253	0.026	0.015	

FENPROPIMORPH (188)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Barley hay	AF/AS	0.68	STMR/STMR-P	88	0.77	15		100		0.115909		0.773		
Rye straw	AF/AS	0.68	STMR/STMR-P	88	0.77		20				0.155			
Barley straw	AF/AS	0.68	STMR/STMR-P	89	0.76		10				0.076			
Beet, sugar tops	AM/AV	0.0845	STMR/STMR-P	23	0.37		20				0.073			
Barley grain	GC	0.075	STMR/STMR-P	88	0.09	50	50		70	0.042614	0.043		0.06	
Beet, sugar dried pulp	AB	0.0442	STMR/STMR-P	88	0.05	15			5	0.007534			0.003	
Brewer's grain dried	SM	0.04488	STMR/STMR-P	92	0.05				25				0.012	
Wheat milled bypds	CM/CF	0.0435	STMR/STMR-P	88	0.05	20				0.009886				
Total						100	100	100	100	0.176	0.347	0.773	0.074	

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley hay	AF/AS	0.68	STMR/STMR-P	88	0.77	20	0	50		0.154545	0	0.386	
Rye straw	AF/AS	0.68	STMR/STMR-P	88	0.77	0	20		5	0	0.155		0.039
Barley straw	AF/AS	0.68	STMR/STMR-P	89	0.76	0	10			0	0.076		
Oat hay	AF/AS	0.68	STMR/STMR-P	90	0.76	10		50		0.075556		0.378	
Beet, sugar tops	AM/AV	0.0845	STMR/STMR-P	23	0.37	0	30			0	0.11		
Barley grain	GC	0.075	STMR/STMR-P	88	0.09	45	40		40	0.038352	0.034		0.034
Beet, sugar dried pulp	AB	0.0442	STMR/STMR-P	88	0.05	15			40	0.007534			0.02
Brewer's grain dried	SM	0.04488	STMR/STMR-P	92	0.05	0			15	0			0.007
Wheat milled bypds	CM/CF	0.0435	STMR/STMR-P	88	0.05	10				0.004943			
Total						100	100	100	100	0.280931	0.375	0.764	0.1

POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley grain	GC	0.075	STMR/STMR-P	88	0.09	75	70	15	10	0.06	0.06	0.013	0.009
Brewer's grain dried	SM	0.04488	STMR/STMR-P	92	0.05		10				0.005		
Wheat milled bypds	CM/CF	0.0435	STMR/STMR-P	88	0.05	25	20	20	5	0.01	0.01	0.01	0.002
Rye grain	GC	0.015	STMR/STMR-P	88	0.02			35				0.006	
Total						100	100	70	15	0.08	0.074	0.029	0.011

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Barley straw	AF/AS	0.68	STMR/STMR-P	89	0.76		5				0.038		
Beet, sugar tops	AM/AV	0.0845	STMR/STMR-P	23	0.37		5				0.018		
Barley grain	GC	0.075	STMR/STMR-P	88	0.09	75	90	15		0.06392	0.077	0.013	
Wheat milled bypds	CM/CF	0.0435	STMR/STMR-P	88	0.05	25		20	30	0.012358		0.01	0.015
Rye grain	GC	0.015	STMR/STMR-P	88	0.02			20				0.003	
Total						100	100	55	30	0.076278	0.133	0.026	0.015

Annex 6

FENPYRAZAMINE (298)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	2.38	STMR	15	15.87			20				3.173		
Total								20				3.173		

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	2.38	STMR	15	15.87			20				3.173		
Total								20				3.173		

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

FENPYRAZAMINE (298)**ESTIMATED MEAN DIETARY BURDEN**

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	2.38	STMR/STMR-P	15	15.87			20						3.173
Total								20						3.173

DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	2.38	STMR/STMR-P	15	15.87		0	20				0.000		3.173
Total						0		20			0.000			3.173

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

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FENPYROXIMATE (192)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Corn, field stover	AF/AS	4.1	HR	83	4.94	15	25	40		0.740964	1.235	1.976	
Corn, field forage/silage	AF/AS	1.3	HR	40	3.25		55	40			1.788	1.3	
Grape pomace, wet	AB	0.17	STMR	15	1.13			20				0.227	
Apple pomace, wet	AB	0.42	STMR	40	1.05		20				0.21		
Corn, field asp gr fn	CM/CF	0.86	STMR	85	1.01	5				0.050588			
Citrus dried pulp	AB	0.78	STMR	91	0.86	10				0.085714			
Corn, field grain	GC	0.01	STMR	88	0.01	70			75	0.007955			0.009
Total						100	100	100	75	0.885221	3.232	3.503	0.009

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Corn, field stover	AF/AS	4.1	HR	83	4.94	15	20	40		0.740964	0.988	1.976	
Corn, field forage/silage	AF/AS	1.3	HR	40	3.25	30	40	40	50	0.975	1.3	1.3	1.625
Grape pomace, wet	AB	0.17	STMR	15	1.13			20				0.227	
Apple pomace, wet	AB	0.42	STMR	40	1.05	10	10			0.105	0.105		
Citrus dried pulp	AB	0.78	STMR	91	0.86		10				0.086		
Corn, field grain	GC	0.01	STMR	88	0.01	45	20		50	0.005114	0.002		0.006
Total						100	100	100	100	1.826077	2.481	3.503	1.631

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Corn, field grain	GC	0.01	STMR	88	0.01	75	70		70	0.008523	0.008		0.008
Total						75	70		70	0.008523	0.008		0.008

POULTRY LAYER											MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Corn, field stover	AF/AS	4.1	HR	83	4.94		10					0.494			
Corn, field grain	GC	0.01	STMR	88	0.01	75	70		80	0.008523	0.008			0.009	
Total						75	80		80	0.008523	0.502			0.009	

FENPYROXIMATE (192)**ESTIMATED MEAN DIETARY BURDEN**

BEEF CATTLE											MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Corn, field stover	AF/AS	2.05	STMR/STMR-P	83	2.47	15	25	40		0.370482	0.617		0.988		
Grape pomace, wet	AB	0.17	STMR/STMR-P	15	1.13			20					0.227		
Apple pomace, wet	AB	0.42	STMR/STMR-P	40	1.05			20				0.21			
Corn, field asp gr fn	CM/CF	0.86	STMR/STMR-P	85	1.01	5				0.050588					
Corn, field forage/silage	AF/AS	0.38	STMR/STMR-P	40	0.95		55	40			0.523		0.38		
Citrus dried pulp	AB	0.78	STMR/STMR-P	91	0.86	10				0.085714					
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.01	70			75	0.007955				0.009	
Total						100	100	100	75	0.514739	1.35		1.595	0.009	

DAIRY CATTLE											MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Corn, field stover	AF/AS	2.05	STMR/STMR-P	83	2.47	15	20	40		0.370482	0.494		0.988		
Grape pomace, wet	AB	0.17	STMR/STMR-P	15	1.13	0		20		0			0.227		
Apple pomace, wet	AB	0.42	STMR/STMR-P	40	1.05	10	10			0.105	0.105				
Corn, field forage/silage	AF/AS	0.38	STMR/STMR-P	40	0.95	30	40	40	50	0.285	0.38		0.38	0.475	
Citrus dried pulp	AB	0.78	STMR/STMR-P	91	0.86	0	10			0	0.086				
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.01	45	20		50	0.005114	0.002			0.006	
Total						100	100	100	100	0.765596	1.067		1.595	0.481	

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POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.01	75	70		70	0.008523	0.008		0.008	
Total						75	70		70	0.008523	0.008		0.008	

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Corn, field stover	AF/AS	2.05	STMR/STMR-P	83	2.47		10				0.247			
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.01	75	70		80	0.008523	0.008		0.009	
Total						75	80		80	0.008523	0.255		0.009	

FLUOPYRAM (243)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Bean vines	AL	25	HR	35	71.429			60						42.857
Pea hay	AL	48	HR	88	54.545		25	40				13.636	21.818	
Beet, sugar tops	AM/AV	8.3	HR	23	36.087		20					7.217		
Corn, field asp gr fn	CM/CF	16	STMR	85	18.824	5				0.941				
Corn, field stover	AF/AS	13	HR	83	15.663	15	25			2.349		3.916		
Corn, field forage/silage	AF/AS	3.9	HR	40	9.750		30					2.925		
Rice straw	AF/AS	6.7	HR	90	7.444				55					4.094
Soybean asp gr fn	SM	4.2	STMR	85	4.941	5				0.247				
Rice bran/pollard	CM/CF	0.68	STMR	90	0.756	10			20	0.076				0.151
Potato process waste	AB	0.09	STMR	12	0.750	30				0.225				
Rice grain	GC	0.62	STMR	88	0.705	20				0.141				
Potato culls	VR	0.083	HR	20	0.415	15				0.062				
Rape meal	SM	0.23	STMR	88	0.261				15					0.039
Rye grain	GC	0.19	STMR	88	0.216				10					0.022
Total						100	100	100	100	4.041		27.694	64.675	4.306

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Bean vines	AL	25	HR	35	71.429		20	70				14.286	50.000	
Pea hay	AL	48	HR	88	54.545	10	10			5.455		5.455		
Beet, sugar tops	AM/AV	8.3	HR	23	36.087		30					10.826		
Peanut hay	AL	21	HR	85	24.706	5				1.235				
Soybean hay	AL	20	HR	85	23.529	5				1.176				
Corn, field stover	AF/AS	13	HR	83	15.663	15	20	30		2.349		3.133	4.699	
Rye straw	AF/AS	12	HR	88	13.636				5					0.682
Wheat forage	AF/AS	2.9	HR	25	11.600	5				0.580				
Corn, field forage/silage	AF/AS	3.9	HR	40	9.750	25	20		45	2.438		1.950		4.388
Almond hulls	AM/AV	3.6	STMR	90	4.000	10				0.400				
Carrot culls	VR	0.19	HR	12	1.583	10				0.158				
Apple pomace, wet	AB	0.31	STMR	40	0.775	10				0.078				
Rice bran/pollard	CM/CF	0.68	STMR	90	0.756	5			10	0.038				0.076
Rape meal	SM	0.23	STMR	88	0.261				25					0.065
Rye grain	GC	0.19	STMR	88	0.216				15					0.032
Total						100	100	100	100	13.907		35.649	54.699	5.243

Annex 6

POULTRY BROILER													MAX	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)	Residue Contribution (ppm)			
						US- CAN	EU	AU	JP		US-CAN	EU	AU	JP
Carrot culls	VR	0.19	HR	12	1.583		10				0.158			
Rice bran/pollard	CM/CF	0.68	STMR	90	0.756	10	10	20	5	0.076	0.076	0.151	0.038	
Rice grain	GC	0.62	STMR	88	0.705	20		50		0.141		0.352		
Rape meal	SM	0.23	STMR	88	0.261			5	5			0.013	0.013	
Rye grain	GC	0.19	STMR	88	0.216	15	70			0.032	0.151			
Triticale grain	GC	0.19	STMR	89	0.213	55	10			0.117	0.021			
Wheat grain	GC	0.19	STMR	89	0.213			25	10			0.053	0.021	
Corn, field grain	GC	0.01	STMR	88	0.011				60					0.007
Soybean meal	SM	0.00095	STMR	92	0.001				20					0.000
Total						100	100	100	100	0.366	0.406	0.570	0.079	

POULTRY LAYER													MAX	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)	Residue Contribution (ppm)			
						US- CAN	EU	AU	JP		US-CAN	EU	AU	JP
Pea hay	AL	48	HR	88	54.545		10				5.455			
Beet, sugar tops	AM/AV	8.3	HR	23	36.087		5				1.804			
Wheat straw	AF/AS	12	HR	88	13.636		10				1.364			
Carrot culls	VR	0.19	HR	12	1.583		10				0.158			
Rice bran/pollard	CM/CF	0.68	STMR	90	0.756	10	5	20	20	0.076	0.038	0.151	0.151	
Rice grain	GC	0.62	STMR	88	0.705	20		50		0.141		0.352		
Rape meal	SM	0.23	STMR	88	0.261		10	5	15		0.026	0.013	0.039	
Rye grain	GC	0.19	STMR	88	0.216	15	35			0.032	0.076			
Triticale grain	GC	0.19	STMR	89	0.213	55				0.117				
Wheat grain	GC	0.19	STMR	89	0.213		15	25			0.032	0.053		
Wheat milled bypds	CM/CF	0.065	STMR	88	0.074				10					0.007
Corn, field grain	GC	0.01	STMR	88	0.011				55					0.006
Total						100	100	100	100	0.366	8.952	0.570	0.204	

FLUOPYRAM (243)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Bean vines	AL	14	STMR/STMR-P	35	40.000			60.00					24.000
Pea vines	AL	5.6	STMR/STMR-P	25	22.400		20.00				4.480		
Pea hay	AL	18	STMR/STMR-P	88	20.455		5.00	40.00			1.023		8.182
Corn, field asp gr fn	CM/CF	16	STMR/STMR-P	85	18.824	5.000				0.941			
Oat forage	AF/AS	1.8	STMR/STMR-P	30	6.000		20.00				1.200		
Cotton gin byproducts	AM/AV	5.4	STMR/STMR-P	90	6.000	5.000				0.300			
Barley forage	AF/AS	1.7	STMR/STMR-P	30	5.667		10.00				0.567		
Rye straw	AF/AS	4.8	STMR/STMR-P	88	5.455	10.000				0.545			
Corn, field forage/silage	AF/AS	2	STMR/STMR-P	40	5.000	5.000	45.00			0.250	2.250		
Soybean asp gr fn	SM	4.2	STMR/STMR-P	85	4.941	5.000				0.247			
Rice straw	AF/AS	2.6	STMR/STMR-P	90	2.889			55.00					1.589
Rice bran/pollard	CM/CF	0.68	STMR/STMR-P	90	0.756	10.000		20.00		0.076			0.151
Potato process waste	AB	0.09	STMR/STMR-P	12	0.750	30.000				0.225			
Rice grain	GC	0.62	STMR/STMR-P	88	0.705	20.000				0.141			
Rape meal	SM	0.23	STMR/STMR-P	88	0.261			15.00					0.039
Rye grain	GC	0.19	STMR/STMR-P	88	0.216			10.00					0.022
Potato culls	VR	0.021	STMR/STMR-P	20	0.105	10.000				0.011			
Total						100.000	100.00	100.00	100.00	2.736	9.519	32.182	1.801

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Bean vines	AL	14	STMR/STMR-P	35	40.000		20.00	70.00				8.000	28.000
Pea vines	AL	5.6	STMR/STMR-P	25	22.400	10.000				2.240			
Pea hay	AL	18	STMR/STMR-P	88	20.455	0.000	10.00			0.000	2.045		
Grape pomace, wet	AB	12.4	STMR/STMR-P	95	13.053	0.000		20.00		0.000		2.611	
Soybean hay	AL	6.1	STMR/STMR-P	85	7.176	10.000				0.718			
Oat forage	AF/AS	1.8	STMR/STMR-P	30	6.000	30.000	20.00	10.00	5.00	1.800	1.200	0.600	0.300
Barley forage	AF/AS	1.7	STMR/STMR-P	30	5.667	0.000	10.00			0.000	0.567		
Corn, field forage/silage	AF/AS	2	STMR/STMR-P	40	5.000	15.000	40.00		45.00	0.750	2.000		2.250
Almond hulls	AM/AV	3.6	STMR/STMR-P	90	4.000	10.000				0.400			
Apple pomace, wet	AB	0.31	STMR/STMR-P	40	0.775	10.000				0.078			
Rice bran/pollard	CM/CF	0.68	STMR/STMR-P	90	0.756	15.000			10.00	0.113			0.076
Rape meal	SM	0.23	STMR/STMR-P	88	0.261	0.000			25.00	0.000			0.065
Rye grain	GC	0.19	STMR/STMR-P	88	0.216	0.000			15.00	0.000			0.032
Total						100.000	100.00	100.00	100.00	6.098	13.812	31.211	2.723

Annex 6

POULTRY BROILER													MEAN		
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Rice bran/pollard	CM/CF	0.68	STMR/STMR-P	90	0.756	10.000	10.000	20.000	5.000	0.076	0.076	0.151	0.038		
Carrot culls	VR	0.09	STMR/STMR-P	12	0.750		10.000				0.075				
Rice grain	GC	0.62	STMR/STMR-P	88	0.705	20.000		50.000		0.141		0.352			
Rape meal	SM	0.23	STMR/STMR-P	88	0.261			5.000	5.000			0.013	0.013		
Rye grain	GC	0.19	STMR/STMR-P	88	0.216	15.000	70.000			0.032	0.151				
Triticale grain	GC	0.19	STMR/STMR-P	89	0.213	55.000	10.000			0.117	0.021				
Wheat grain	GC	0.19	STMR/STMR-P	89	0.213			25.000	10.000			0.053	0.021		
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.011				60.000				0.007		
Soybean meal	SM	0.00095	STMR/STMR-P	92	0.001				20.000				0.000		
Total						100.000	100.000	100.000	100.000	0.366	0.323	0.570	0.079		

POULTRY LAYER													MEAN		
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Pea vines	AL	5.6	STMR/STMR-P	25	22.400		10.000				2.240				
Wheat straw	AF/AS	4.8	STMR/STMR-P	88	5.455		10.000				0.545				
Beet, sugar tops	AM/AV	0.46	STMR/STMR-P	23	2.000		5.000				0.100				
Rice bran/pollard	CM/CF	0.68	STMR/STMR-P	90	0.756	10.000	5.000	20.000	20.000	0.076	0.038	0.151	0.151		
Carrot culls	VR	0.09	STMR/STMR-P	12	0.750		10.000				0.075				
Rice grain	GC	0.62	STMR/STMR-P	88	0.705	20.000		50.000		0.141		0.352			
Rape meal	SM	0.23	STMR/STMR-P	88	0.261		10.000	5.000	15.000		0.026	0.013	0.039		
Rye grain	GC	0.19	STMR/STMR-P	88	0.216	15.000	35.000			0.032	0.076				
Triticale grain	GC	0.19	STMR/STMR-P	89	0.213	55.000				0.117					
Wheat grain	GC	0.19	STMR/STMR-P	89	0.213		15.000	25.000			0.032	0.053			
Wheat milled bypds	CM/CF	0.065	STMR/STMR-P	88	0.074				10.000				0.007		
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.011				55.000				0.006		
Total						100.000	100.000	100.000	100.000	0.366	3.132	0.570	0.204		

FOSETYL-ALUMINIUM (302)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	22	STMTR	15	146.67			20						29.33
Apple pomace, wet	AB	15	STMTR	40	37.50		20				7.5			
Citrus dried pulp	AB	16	STMTR	91	17.58	10		10		1.758242			1.758	
Total						10	20	30		1.758242	7.5		31.09	

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grape pomace, wet	AB	22	STMTR	15	146.67			20						29.33
Apple pomace, wet	AB	15	STMTR	40	37.50	10	10			3.75	3.75			
Citrus dried pulp	AB	16	STMTR	91	17.58		10	10			1.758	1.758		
Total						10	20	30		3.75	5.508		31.09	

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

Annex 6

FOSETYL-ALUMINIUM (302)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Grape pomace, wet	AB	22	STMR/STMR-P	15	146.67			20							29.33
Apple pomace, wet	AB	15	STMR/STMR-P	40	37.50		20				7.5				
Citrus dried pulp	AB	16	STMR/STMR-P	91	17.58	10		10			1.758242			1.758	
Total						10	20	30			1.758242	7.5		31.09	

DAIRY CATTLE											MEAN				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Grape pomace, wet	AB	22	STMR/STMR-P	15	146.67		0	20			0				29.33
Apple pomace, wet	AB	15	STMR/STMR-P	40	37.50	10	10				3.75	3.75			
Citrus dried pulp	AB	16	STMR/STMR-P	91	17.58	0	10	10			0	1.758	1.758		
Total						10	20	30			3.75	5.508		31.09	

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

IMAZAMOX (276)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rape forage	AM/AV	0.71	HR	30	2.37		10	100			0.237	2.367	
Wheat forage	AF/AS	0.23	HR	25	0.92		20				0.184		
Alfalfa forage	AL	0.2	HR	35	0.57		70				0.4		
Sunflower meal	SM	0.48	STMR	92	0.52	5				0.026			
Alfalfa hay	AL	0.41	HR	89	0.46	15			10	0.069			0.046
Wheat milled													
bypdts	CM/CF	0.21	STMR	88	0.24	40			55	0.095			0.131
Wheat hay	AF/AS	0.1	HR	88	0.11	15				0.017			
Alfalfa meal	SM	0.1	STMR	89	0.11				10				0.011
Wheat grain	GC	0.1	STMR	89	0.11	20			25	0.022			0.028
Barley straw	AF/AS	0.05	HR	89	0.06	5				0.003			
Total						100	100	100	100	0.233	0.821	2.367	0.217

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rape forage	AM/AV	0.71	HR	30	2.37	10	10	40		0.237	0.237	0.947	
Wheat forage	AF/AS	0.23	HR	25	0.92	20	20	60		0.184	0.184	0.552	
Alfalfa forage	AL	0.2	HR	35	0.57	20	40			0.114	0.229		
Sunflower meal	SM	0.48	STMR	92	0.52	10	10			0.052	0.052		
Alfalfa hay	AL	0.41	HR	89	0.46				25				0.115
Barley forage	AF/AS	0.073	HR	30	0.24		20				0.049		
Wheat milled													
bypdts	CM/CF	0.21	STMR	88	0.24	30			45	0.072			0.107
Alfalfa meal	SM	0.1	STMR	89	0.11	10			25	0.011			0.028
Wheat grain	GC	0.1	STMR	89	0.11				5				0.006
Total						100	100	100	100	0.670	0.75	1.499	0.256

Annex 6

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Sunflower meal	SM	0.48	STMR	92	0.52	25	10	15		0.130	0.052	0.078		
Wheat milled														
bypdts	CM/CF	0.21	STMR	88	0.24	50	20	20	5	0.119	0.048	0.048	0.012	
Alfalfa meal	SM	0.1	STMR	89	0.11				5				0.006	
Wheat grain	GC	0.1	STMR	89	0.11	25	70	65	10	0.028	0.079	0.073	0.011	
Total						100	100	100	20	0.278	0.179	0.199	0.029	

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rape forage	AM/AV	0.71	HR	30	2.37				10				0.237	
Wheat forage	AF/AS	0.23	HR	25	0.92				10				0.092	
Sunflower meal	SM	0.48	STMR	92	0.52	25	10	15		0.130	0.052	0.078		
Pea vines	AL	0.1	HR	25	0.40				10				0.04	
Wheat milled														
bypdts	CM/CF	0.21	STMR	88	0.24	50	20	20	30	0.119	0.048	0.048	0.072	
Wheat grain	GC	0.1	STMR	89	0.11	25	40	55		0.028	0.045	0.062		
Total						100	100	90	30	0.278	0.514	0.188	0.072	

IMAZAMOX (276)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rape forage	AM/AV	0.36	STMR/STMR-P	30	1.20		10	100			0.12	1.2		
Sunflower meal	SM	0.48	STMR/STMR-P	92	0.52	5	20			0.026087	0.104			
Pea vines	AL	0.1	STMR/STMR-P	25	0.40		20				0.08			
Wheat forage	AF/AS	0.1	STMR/STMR-P	25	0.40		20				0.08			
Wheat milled bypdts	CM/CF	0.21	STMR/STMR-P	88	0.24	40	30		55	0.095455	0.072		0.131	
Alfalfa hay	AL	0.2	STMR/STMR-P	89	0.22	15			10	0.033708			0.022	
Alfalfa meal	SM	0.1	STMR/STMR-P	89	0.11				10				0.011	
Wheat grain	GC	0.1	STMR/STMR-P	89	0.11	20			25	0.022472			0.028	
Barley straw	AF/AS	0.05	STMR/STMR-P	89	0.06	10				0.006				
Barley grain	GC	0.04	STMR/STMR-P	88	0.05	10				0.005				
Total							100	100	100	100	0.188	0.456	1.2	0.193

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rape forage	AM/AV	0.36	STMR/STMR-P	30	1.20	10	10	40		0.12	0.12	0.48	
Sunflower meal	SM	0.48	STMR/STMR-P	92	0.52	10	10	15		0.052174	0.052	0.078	
Pea vines	AL	0.1	STMR/STMR-P	25	0.40	10	20	40		0.04	0.08	0.16	
Wheat forage	AF/AS	0.1	STMR/STMR-P	25	0.40	20	20	5		0.08	0.08	0.02	
Wheat milled bypds	CM/CF	0.21	STMR/STMR-P	88	0.24	30	30		45	0.071591	0.072		0.107
Alfalfa hay	AL	0.2	STMR/STMR-P	89	0.22	10	10		25	0.022472	0.022		0.056
Alfalfa meal	SM	0.1	STMR/STMR-P	89	0.11	10			25	0.011236			0.028
Wheat grain	GC	0.1	STMR/STMR-P	89	0.11	0			5	0			0.006
Total						100	100	100	100	0.397473	0.426	0.738	0.197

POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Sunflower meal	SM	0.48	STMR/STMR-P	92	0.52	25	10	15		0.13	0.052	0.078	
Wheat milled bypds	CM/CF	0.21	STMR/STMR-P	88	0.24	50	20	20	5	0.12	0.048	0.048	0.012
Alfalfa meal	SM	0.1	STMR/STMR-P	89	0.11				5				0.006
Wheat grain	GC	0.1	STMR/STMR-P	89	0.11	25	70	65	10	0.03	0.079	0.073	0.011
Total						100	100	100	20	0.28	0.179	0.199	0.029

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rape forage	AM/AV	0.36	STMR/STMR-P	30	1.20		10				0.12		
Sunflower meal	SM	0.48	STMR/STMR-P	92	0.52	25	10	15		0.130435	0.052	0.078	
Pea vines	AL	0.1	STMR/STMR-P	25	0.40		10				0.04		
Wheat forage	AF/AS	0.1	STMR/STMR-P	25	0.40		10				0.04		
Wheat milled bypds	CM/CF	0.21	STMR/STMR-P	88	0.24	50	20	20	30	0.119318	0.048	0.048	0.072
Wheat grain	GC	0.1	STMR/STMR-P	89	0.11	25	40	55		0.02809	0.045	0.062	
Total						100	100	90	30	0.277843	0.345	0.188	0.072

Annex 6

IMAZAPYR (267)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grass hay	AF/AS	2.5	HR	88	2.84	15	50	100	40	0.426	1.42	2.841	1.136	
Soybean meal	SM	0.897	STMR	92	0.98	5	20		60	0.049	0.195		0.585	
Soybean seed	VD	0.69	STMR	89	0.78	5	10			0.039	0.078			
Soybean hulls	SM	0.462	STMR	90	0.51	10				0.051				
Corn, field hominy meal	CM/CF	0.06	STMR	88	0.07	50				0.034				
Corn, field grain	GC	0.05	STMR	88	0.06	15	20			0.009	0.011			
Total						100	100	100	100	0.608	1.704	2.841	1.721	

DAIRY CATTLE														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Grass hay	AF/AS	2.5	HR	88	2.84	45	60	60	70	1.278	1.705	1.705	1.989	
Soybean meal	SM	0.897	STMR	92	0.98	10	25	15	30	0.098	0.244	0.146	0.293	
Soybean seed	VD	0.69	STMR	89	0.78	10	10	20		0.078	0.078	0.155		
Corn, field hominy meal	CM/CF	0.06	STMR	88	0.07	25		5		0.017		0.003		
Corn, field grain	GC	0.05	STMR	88	0.06	10	5			0.006	0.003			
Total						100	100	100	100	1.476	2.029	2.009	2.281	

POULTRY BROILER														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Soybean meal	SM	0.897	STMR	92	0.98	25	40	25	35	0.244	0.39	0.244	0.341	
Soybean seed	VD	0.69	STMR	89	0.78	20	20	15		0.155	0.155	0.116		
Corn, field hominy meal	CM/CF	0.06	STMR	88	0.07	20		20		0.014		0.014		
Corn, field grain	GC	0.05	STMR	88	0.06	35	40		65	0.020	0.023		0.037	
Total						100	100	60	100	0.432	0.568	0.374	0.378	

POULTRY LAYER										MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Soybean meal	SM	0.897	STMR	92	0.98	25	25	25	30	0.244	0.244	0.244	0.293
Soybean seed	VD	0.69	STMR	89	0.78	20	15	15		0.155	0.116	0.116	
Wheat forage	AF/AS	0.05	HR	25	0.20		10				0.02		
Corn, field hominy meal	CM/CF	0.06	STMR	88	0.07	20	20	20		0.014	0.014	0.014	
Corn, field grain	GC	0.05	STMR	88	0.06	35	30		70	0.020	0.017		0.04
Total						100	100	60	100	0.432	0.411	0.374	0.332

IMAZAPYR (267)

ESTIMATED MEAN DIETARY BURDEN													
BEEF CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Grass hay	AF/AS	1.3	STMR/STMR-P	88	1.48	15	50	100	40	0.221591	0.739	1.477	0.591
Soybean meal	SM	0.897	STMR/STMR-P	92	0.98	5	20		60	0.04875	0.195		0.585
Soybean seed	VD	0.69	STMR/STMR-P	89	0.78	5	10			0.038764	0.078		
Soybean hulls	SM	0.462	STMR/STMR-P	90	0.51	10				0.051333			
Corn, field hominy meal	CM/CF	0.06	STMR/STMR-P	88	0.07	50				0.034091			
Corn, field grain	GC	0.05	STMR/STMR-P	88	0.06	15	20			0.008523	0.011		
Total						100	100	100	100	0.403052	1.023	1.477	1.176

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Grass hay	AF/AS	1.3	STMR/STMR-P	88	1.48	45	60	60	70	0.664773	0.886	0.886	1.034
Soybean meal	SM	0.897	STMR/STMR-P	92	0.98	10	25	15	30	0.0975	0.244	0.146	0.293
Soybean seed	VD	0.69	STMR/STMR-P	89	0.78	10	10	20		0.077528	0.078	0.155	
Corn, field hominy meal	CM/CF	0.06	STMR/STMR-P	88	0.07	25		5		0.017045		0.003	
Corn, field grain	GC	0.05	STMR/STMR-P	88	0.06	10	5			0.005682	0.003		
Total						100	100	100	100	0.862528	1.21	1.191	1.327

Annex 6

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Soybean meal	SM	0.897	STMR/STMR-P	92	0.98	25	40	25	35	0.24	0.39	0.244	0.341	
Soybean seed	VD	0.69	STMR/STMR-P	89	0.78	20	20	15		0.16	0.155	0.116		
Corn, field hominy meal	CM/CF	0.06	STMR/STMR-P	88	0.07	20		20		0.01		0.014		
Corn, field grain	GC	0.05	STMR/STMR-P	88	0.06	35	40		65	0.02	0.023		0.037	
Total						100	100	60	100	0.43	0.568	0.374	0.378	

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Soybean meal	SM	0.897	STMR/STMR-P	92	0.98	25	25	25	30	0.24375	0.244	0.244	0.293	
Soybean seed	VD	0.69	STMR/STMR-P	89	0.78	20	15	15		0.155056	0.116	0.116		
Wheat forage	AF/AS	0.05	STMR/STMR-P	25	0.20		10				0.02			
Corn, field hominy meal	CM/CF	0.06	STMR/STMR-P	88	0.07	20	20	20		0.013636	0.014	0.014		
Corn, field grain	GC	0.05	STMR/STMR-P	88	0.06	35	30		70	0.019886	0.017		0.04	
Total						100	100	60	100	0.432329	0.411	0.374	0.332	

ISOPROTHIOLANE(299)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	1.6	STMR	88	1.82	20		40		0.363636		0.727	
Total						20		40		0.363636		0.727	

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	1.6	STMR	88	1.82	20		20		0.363636		0.364	
Total						20		20		0.363636		0.364	

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	1.6	STMR	88	1.82	20		50		0.363636		0.909	
Total						20		50		0.363636		0.909	

POULTRY LAYER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	1.6	STMR	88	1.82	20		50		0.363636		0.909	
Total						20		50		0.363636		0.909	

Annex 6

ISOPROTHIOLANE (299)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice grain	GC	1.6	STMR/STMR-P	88	1.82	20		40			0.363636			0.727
Total						20		40			0.363636			0.727

DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice grain	GC	1.6	STMR/STMR-P	88	1.82	20	0	20			0.363636	0		0.364
Total						20		20			0.363636			0.364

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice grain	GC	1.6	STMR/STMR-P	88	1.82	20		50			0.363636			0.909
Total						20		50			0.363636			0.909

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice grain	GC	1.6	STMR/STMR-P	88	1.82	20		50			0.363636			0.909
Total						20		50			0.363636			0.909

ISOPYRAZAM (249)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	5.5	HR	25	22.00		20	100			4.4	22		
Barley forage	AF/AS	5.5	HR	30	18.33		10				1.833			
Rye straw	AF/AS	6.9	HR	88	7.84	10				0.784				
Carrot culls	VR	0.099	HR	12	0.83		15				0.124			
Apple pomace, wet	AB	0.3	STMR	40	0.75		20				0.15			
Barley grain	GC	0.026	STMR	88	0.03	50	35		70	0.015	0.01		0.021	
Total						60	100	100	70	0.799	6.517	22	0.021	

DAIRY CATTLE														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	5.5	HR	25	22.00	20	20	60		4.400	4.4	13.2		
Barley forage	AF/AS	5.5	HR	30	18.33		10				1.833			
Triticale straw	AF/AS	6.9	HR	90	7.67			10				0.767		
Carrot culls	VR	0.099	HR	12	0.83	10	15	5		0.083	0.124	0.041		
Apple pomace, wet	AB	0.3	STMR	40	0.75	10	10	10		0.075	0.075	0.075		
Barley grain	GC	0.026	STMR	88	0.03	45	40	15	40	0.013	0.012	0.004	0.012	
Total						85	95	100	40	4.571	6.444	14.09	0.012	

POULTRY BROILER														MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Carrot culls	VR	0.099	HR	12	0.83		10				0.083			
Barley grain	GC	0.026	STMR	88	0.03	75	70	15	10	0.022	0.021	0.004	0.003	
Total						75	80	15	10	0.022	0.103	0.004	0.003	

Annex 6

POULTRY LAYER													MAX	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	5.5	HR	25	22.00		10				2.2			
Carrot culls	VR	0.099	HR	12	0.83		10				0.083			
Barley grain	GC	0.026	STMR	88	0.03	75	80	15		0.022	0.024	0.004		
Total						75	100	15		0.022	2.306	0.004		

ISOPYRAZAM (249)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	2.9	STMR/STMR-P	25	11.60		20	100			2.32	11.6		
Barley forage	AF/AS	2.9	STMR/STMR-P	30	9.67		10				0.967			
Rye straw	AF/AS	0.84	STMR/STMR-P	88	0.95	10				0.095				
Apple pomace, wet	AB	0.3	STMR/STMR-P	40	0.75		20				0.15			
Carrot culls	VR	0.017	STMR/STMR-P	12	0.14		15				0.021			
Barley grain	GC	0.026	STMR/STMR-P	88	0.03	50	35		70	0.015	0.01		0.021	
Total						60	100	100	70	0.110	3.468	11.6	0.021	

DAIRY CATTLE													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	2.9	STMR/STMR-P	25	11.60	20	20	60		2.320	2.32	6.96		
Barley forage	AF/AS	2.9	STMR/STMR-P	30	9.67	0	10			0.000	0.967			
Triticale straw	AF/AS	0.84	STMR/STMR-P	90	0.93	0		10		0.000		0.093		
Apple pomace, wet	AB	0.3	STMR/STMR-P	40	0.75	10	10	10		0.075	0.075	0.075		
Carrot culls	VR	0.017	STMR/STMR-P	12	0.14	10	15	5		0.014	0.021	0.007		
Barley grain	GC	0.026	STMR/STMR-P	88	0.03	45	40	15	40	0.013	0.012	0.004	0.012	
Total						85	95	100	40	2.422	3.395	7.14	0.012	

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Carrot culls	VR	0.017	STMR/STMR-P	12	0.14		10				0.014			
Barley grain	GC	0.026	STMR/STMR-P	88	0.03	75	70	15	10	0.022	0.021	0.004	0.003	
Total						75	80	15	10	0.022	0.035	0.004	0.003	

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat forage	AF/AS	2.9	STMR/STMR-P	25	11.60		10				1.16			
Carrot culls	VR	0.017	STMR/STMR-P	12	0.14		10				0.014			
Barley grain	GC	0.026	STMR/STMR-P	88	0.03	75	80	15		0.022	0.024	0.004		
Total						75	100	15		0.022	1.198	0.004		

Annex 6

OXAMYL (126)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Tomato pomace,wet	AB	0.01	STMR	20	0.05			10						0.005
Total								10						0.005

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Tomato pomace,wet	AB	0.01	STMR	20	0.05			10						0.005
Total								10						0.005

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

OXAMYL (126)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Tomato pomace, wet	AB	0.01	STMR/STMR-P	20	0.05			10					0.005	
Total								10					0.005	

DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Tomato pomace, wet	AB	0.01	STMR/STMR-P	20	0.05		0	10		0	0		0.005	
Total						0		10		0			0.005	

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
No feed items applicable!														

Annex 6

PICOXYSTROBIN (258)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea hay	AL	64	HR	100	64.00	25	100				16	64		
Barley forage	AF/AS	31	HR	100	31.00	30					9.3			
Corn, field forage/silage	AF/AS	14	HR	100	14.00	15	45			2.1	6.3			
Soybean asp gr fn	SM	2.6	STMR	85	3.06	5				0.152941				
Corn, field asp gr fn	CM/CF	0.15	STMR	85	0.18	5				0.008824				
Wheat milled bypds	CM/CF	0.15	STMR	88	0.17	35			55	0.059659				0.094
Soybean hulls	SM	0.043	STMR	90	0.05	10				0.004778				
Barley grain	GC	0.017	STMR	88	0.02	30			45	0.005795				0.009
Total						100	100	100	100	2.331997	31.6	64		0.102

DAIRY CATTLE											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea hay	AL	64	HR	100	64.00	10	30	70		6.4	19.2	44.8		
Barley forage	AF/AS	31	HR	100	31.00	30	30	30			9.3	9.3		
Oat forage	AF/AS	31	HR	100	31.00	30			5	9.3				1.55
Corn, field forage/silage	AF/AS	14	HR	100	14.00	15	30		45	2.1	4.2			6.3
Soybean forage	AL	3.5	HR	100	3.50	10				0.35				
Wheat milled bypds	CM/CF	0.15	STMR	88	0.17	30	10		45	0.051136	0.017			0.077
Barley grain	GC	0.017	STMR	88	0.02	5			5	0.000966				1E-03
Total						100	100	100	100	18.2021	32.72	54.1		7.928

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat milled bypds	CM/CF	0.15	STMR	88	0.17	50	20	20	5	0.085227	0.034	0.034	0.009	
Soybean hulls	SM	0.043	STMR	90	0.05		10	5			0.005	0.002		
Barley grain	GC	0.017	STMR	88	0.02	50	70	15	10	0.009659	0.014	0.003	0.002	
Bean seed	VD	0.01	STMR	88	0.01			60				0.007		
Total						100	100	100	15	0.094886	0.052	0.046	0.01	

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea hay	AL	64	HR	100	64.00		10				6.4			
Oat forage	AF/AS	31	HR	100	31.00		10				3.1			
Wheat milled bypds	CM/CF	0.15	STMR	88	0.17	50	20	20	30	0.085227	0.034	0.034	0.051	
Soybean hulls	SM	0.043	STMR	90	0.05		5	5			0.002	0.002		
Barley grain	GC	0.017	STMR	88	0.02	50	55	15		0.009659	0.011	0.003		
Bean seed	VD	0.01	STMR	88	0.01			60				0.007		
Corn, field grain	GC	0.01	STMR	88	0.01				70				0.008	
Total						100	100	100	100	0.094886	9.547	0.046	0.059	

PICOXYSTROBIN (258)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea vines	AL	20.5	STMR/STMR-P	100	20.50		20	60			4.1	12.3		
Pea hay	AL	12.5	STMR/STMR-P	100	12.50		5	40			0.625	5		
Corn, field forage/silage	AF/AS	7.1	STMR/STMR-P	100	7.10	15	75			1.065	5.325			
Soybean asp gr fn	SM	2.6	STMR/STMR-P	85	3.06	5				0.152941				
Corn, field asp gr fn	CM/CF	0.15	STMR/STMR-P	85	0.18	5				0.008824				
Wheat milled bypds	CM/CF	0.15	STMR/STMR-P	88	0.17	35			55	0.059659			0.094	
Soybean hulls	SM	0.043	STMR/STMR-P	90	0.05	10				0.004778				
Barley grain	GC	0.017	STMR/STMR-P	88	0.02	30			45	0.005795			0.009	
Total						100	100	100	100	1.296997	10.05	17.3	0.102	

Annex 6

DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea vines	AL	20.5	STMR/STMR-P	100	20.50	10	20	40		2.05	4.1	8.2		
Pea hay	AL	12.5	STMR/STMR-P	100	12.50	0	10	30		0	1.25	3.75		
Corn, field forage/silage	AF/AS	7.1	STMR/STMR-P	100	7.10	45	60	30	50	3.195	4.26	2.13	3.55	
Soybean forage	AL	1.4	STMR/STMR-P	100	1.40	10				0.14				
Wheat milled byppts	CM/CF	0.15	STMR/STMR-P	88	0.17	30	10		45	0.051136	0.017		0.077	
Barley grain	GC	0.017	STMR/STMR-P	88	0.02	5			5	0.000966			1E-03	
Total						100	100	100	100	5.437102	9.627	14.08	3.628	

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Wheat milled byppts	CM/CF	0.15	STMR/STMR-P	88	0.17	50	20	20	5	0.085227	0.034	0.034	0.009	
Soybean hulls	SM	0.043	STMR/STMR-P	90	0.05		10	5			0.005	0.002		
Barley grain	GC	0.017	STMR/STMR-P	88	0.02	50	70	15	10	0.009659	0.014	0.003	0.002	
Bean seed	VD	0.01	STMR/STMR-P	88	0.01			60				0.007		
Total						100	100	100	15	0.094886	0.052	0.046	0.01	

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Pea vines	AL	20.5	STMR/STMR-P	100	20.50			10			2.05			
Corn, field forage/silage	AF/AS	7.1	STMR/STMR-P	100	7.10			10			0.71			
Wheat milled byppts	CM/CF	0.15	STMR/STMR-P	88	0.17	50	20	20	30	0.085227	0.034	0.034	0.051	
Soybean hulls	SM	0.043	STMR/STMR-P	90	0.05			5	5		0.002	0.002		
Barley grain	GC	0.017	STMR/STMR-P	88	0.02	50	55	15		0.009659	0.011	0.003		
Bean seed	VD	0.01	STMR/STMR-P	88	0.01			60				0.007		
Corn, field grain	GC	0.01	STMR/STMR-P	88	0.01				70				0.008	
Total						100	100	100	100	0.094886	2.807	0.046	0.059	

PROTHIOCONAZOLE (232)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	5.4	HR	25	21.60	20	100				4.32	21.6	
Barley forage	AF/AS	5.4	HR	30	18.00	10					1.8		
Beet, sugar tops	AM/AV	3.9	HR	23	16.96	20					3.391		
Corn, field forage/silage	AF/AS	3.6	HR	40	9.00	15	50			1.35	4.5		
Wheat asp gr fn	CM/CF	5	STMR	85	5.88	5				0.294118			
Soybean asp gr fn	SM	3.75	STMR	85	4.41	5				0.220588			
Cotton gin byproducts	AM/AV	1.8	HR	90	2.00	5				0.1			
Soybean seed	VD	0.05	STMR	89	0.06	5		15		0.002809			0.008
Potato culls	VR	0.01	HR	20	0.05	30				0.015			
Barley grain	GC	0.035	STMR	88	0.04	35			70	0.01392			0.028
Corn, field grain	GC	0.018	STMR	88	0.02				5				0.001
Rape meal	SM	0.014	STMR	88	0.02				10				0.002
Total						100	100	100	100	1.996435	14.01	21.6	0.039

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Wheat forage	AF/AS	5.4	HR	25	21.60	20	20	60		4.32	4.32	12.96	
Barley forage	AF/AS	5.4	HR	30	18.00		10				1.8		
Beet, sugar tops	AM/AV	3.9	HR	23	16.96		30				5.087		
Peanut hay	AL	11.6	HR	85	13.65	15		40		2.047059		5.459	
Corn, field forage/silage	AF/AS	3.6	HR	40	9.00	25	30		50	2.25	2.7		4.5
Cotton undelinted seed	SO	0.052	STMR	88	0.06	10	10			0.005909	0.006		
Soybean seed	VD	0.05	STMR	89	0.06	10			10	0.005618			0.006
Potato culls	VR	0.01	HR	20	0.05	10				0.005			
Barley grain	GC	0.035	STMR	88	0.04	10			40	0.003977			0.016
Total						100	100	100	100	8.637563	13.91	18.42	4.522

Annex 6

POULTRY BROILER											MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Bean seed	VD	0.05	STMR	88	0.06		20	70				0.011	0.04		
Cowpea seed	VD	0.05	STMR	88	0.06	10					0.005682				
Pea seed	VD	0.05	STMR	90	0.06	10					0.005556				
Potato culls	VR	0.01	HR	20	0.05		10					0.005			
Barley grain	GC	0.035	STMR	88	0.04	75	70	15	10		0.02983	0.028	0.006	0.004	
Soybean hulls	SM	0.025	STMR	90	0.03			5					0.001		
Peanut meal	SM	0.018	STMR	85	0.02	5		5			0.001059		0.001		
Rape meal	SM	0.014	STMR	88	0.02				5						8E-04
Total						100	100	95	15		0.042126	0.044	0.048	0.005	

POULTRY LAYER											MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Wheat forage	AF/AS	5.4	HR	25	21.60		10					2.16			
Beet, sugar tops	AM/AV	3.9	HR	23	16.96		5					0.848			
Bean seed	VD	0.05	STMR	88	0.06		20	70				0.011	0.04		
Cowpea seed	VD	0.05	STMR	88	0.06	10					0.005682				
Pea seed	VD	0.05	STMR	90	0.06	10					0.005556				
Potato culls	VR	0.01	HR	20	0.05		10					0.005			
Barley grain	GC	0.035	STMR	88	0.04	75	55	15			0.02983	0.022	0.006		
Soybean hulls	SM	0.025	STMR	90	0.03			5					0.001		
Peanut meal	SM	0.018	STMR	85	0.02	5		5			0.001059		0.001		
Corn, field grain	GC	0.018	STMR	88	0.02				80						0.016
Rape meal	SM	0.014	STMR	88	0.02				15						0.002
Total						100	100	95	95		0.042126	3.046	0.048	0.019	

PROTHIOCONAZOLE (232)**ESTIMATED MEAN DIETARY BURDEN**

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Beet, sugar tops	AM/AV	1.5	STMR/STMR-P	23	6.52	20				1.304				
Wheat asp gr fn	CM/CF	5	STMR/STMR-P	85	5.88	5				0.294118				
Corn, field forage/silage	AF/AS	2.24	STMR/STMR-P	40	5.60	15	80	80		0.84	4.48	4.48		
Peanut hay	AL	4.08	STMR/STMR-P	85	4.80	20				0.96				
Soybean asp gr fn	SM	3.75	STMR/STMR-P	85	4.41	5				0.220588				
Cotton gin byproducts	AM/AV	1.1	STMR/STMR-P	90	1.22	5				0.061111				
Soybean seed	VD	0.05	STMR/STMR-P	89	0.06	5				0.002809			0.008	
Potato culls	VR	0.01	STMR/STMR-P	20	0.05	30				0.015				
Barley grain	GC	0.035	STMR/STMR-P	88	0.04	35				0.01392			0.028	
Corn, field grain	GC	0.018	STMR/STMR-P	88	0.02								0.001	
Rape meal	SM	0.014	STMR/STMR-P	88	0.02								0.002	
Total						100	100	100	100	1.447546	5.784	5.44	0.039	

DAIRY CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Beet, sugar tops	AM/AV	1.5	STMR/STMR-P	23	6.52	30				1.957				
Corn, field forage/silage	AF/AS	2.24	STMR/STMR-P	40	5.60	45	60	80	50	2.52	3.36	4.48	2.8	
Peanut hay	AL	4.08	STMR/STMR-P	85	4.80	15				0.72				
Cotton undelinted seed	SO	0.052	STMR/STMR-P	88	0.06	10	10			0.005909	0.006			
Soybean seed	VD	0.05	STMR/STMR-P	89	0.06	10				0.005618				
Potato culls	VR	0.01	STMR/STMR-P	20	0.05	10				0.005				
Barley grain	GC	0.035	STMR/STMR-P	88	0.04	10				0.003977			0.016	
Total						100	100	100	100	3.260504	5.322	5.44	2.822	

Annex 6

POULTRY BROILER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Bean seed	VD	0.05	STMR/STMR-P	88	0.06		20	70			0.011	0.04		
Cowpea seed	VD	0.05	STMR/STMR-P	88	0.06	10				0.005682				
Pea seed	VD	0.05	STMR/STMR-P	90	0.06	10				0.005556				
Potato culls	VR	0.01	STMR/STMR-P	20	0.05		10				0.005			
Barley grain	GC	0.035	STMR/STMR-P	88	0.04	75	70	15	10	0.02983	0.028	0.006	0.004	
Soybean hulls	SM	0.025	STMR/STMR-P	90	0.03			5				0.001		
Peanut meal	SM	0.018	STMR/STMR-P	85	0.02	5		5		0.001059		0.001		
Rape meal	SM	0.014	STMR/STMR-P	88	0.02				5					8E-04
Total						100	100	95	15	0.042126	0.044	0.048	0.005	

POULTRY LAYER											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Beet, sugar tops	AM/AV	1.5	STMR/STMR-P	23	6.52		5				0.326			
Corn, field forage/silage	AF/AS	2.24	STMR/STMR-P	40	5.60		10				0.56			
Bean seed	VD	0.05	STMR/STMR-P	88	0.06		20	70			0.011	0.04		
Cowpea seed	VD	0.05	STMR/STMR-P	88	0.06	10				0.005682				
Pea seed	VD	0.05	STMR/STMR-P	90	0.06	10				0.005556				
Potato culls	VR	0.01	STMR/STMR-P	20	0.05		10				0.005			
Barley grain	GC	0.035	STMR/STMR-P	88	0.04	75	55	15		0.02983	0.022	0.006		
Soybean hulls	SM	0.025	STMR/STMR-P	90	0.03			5				0.001		
Peanut meal	SM	0.018	STMR/STMR-P	85	0.02	5		5		0.001059		0.001		
Corn, field grain	GC	0.018	STMR/STMR-P	88	0.02				80					0.016
Rape meal	SM	0.014	STMR/STMR-P	88	0.02				15					0.002
Total						100	100	95	95	0.042126	0.924	0.048	0.019	

QUINCLORAC (287)**ESTIMATED MAXIMUM DIETARY BURDEN**

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice straw	AF/AS	4.4	HR	90	4.89		10	60	55		0.489	2.933	2.689
Rice bran/pollard	CM/CF	2.2	STMR	90	2.44	15		40	20	0.367		0.978	0.489
Rice grain	GC	0.74	STMR	88	0.84	20				0.168			
Rape meal	SM	0.022	STMR	88	0.03		20		15		0.005		0.004
Total						35	30	100	90	0.535	0.494	3.911	3.182

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice straw	AF/AS	4.4	HR	90	4.89		5	20	25		0.244	0.978	1.222
Rice bran/pollard	CM/CF	2.2	STMR	90	2.44	15	20	40	10	0.367	0.489	0.978	0.244
Rice grain	GC	0.74	STMR	88	0.84	20		20		0.168		0.168	
Rape meal	SM	0.022	STMR	88	0.03		10	15	25		0.003	0.004	0.006
Total						35	35	95	60	0.535	0.736	2.127	1.473

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice bran/pollard	CM/CF	2.2	STMR	90	2.44	10	10	20	5	0.244	0.244	0.489	0.122
Rice grain	GC	0.74	STMR	88	0.84	20		50		0.168		0.42	
Rape meal	SM	0.022	STMR	88	0.03			5	5			0.001	0.001
Total						30	10	75	10	0.413	0.244	0.911	0.123

POULTRY LAYER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US- CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice bran/pollard	CM/CF	2.2	STMR	90	2.44	10	5	20	20	0.244	0.122	0.489	0.489
Rice grain	GC	0.74	STMR	88	0.84	20		50		0.168		0.42	
Rape meal	SM	0.022	STMR	88	0.03		10	5	15		0.003	0.001	0.004
Total						30	15	75	35	0.413	0.125	0.911	0.493

Annex 6

QUINCLORAC (287)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice bran/pollard	CM/CF	2.2	STMR/STMR-P	90	2.44	15		40	20	0.366667		0.978	0.489	
Rice straw	AF/AS	1.2	STMR/STMR-P	90	1.33		10	60	55		0.133	0.8	0.733	
Rice grain	GC	0.74	STMR/STMR-P	88	0.84	20				0.168182				
Rape meal	SM	0.022	STMR/STMR-P	88	0.03		20		15		0.005		0.004	
Total						35	30	100	90	0.534848	0.138	1.778	1.226	

DAIRY CATTLE													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice bran/pollard	CM/CF	2.2	STMR/STMR-P	90	2.44	15	20	40	10	0.366667	0.489	0.978	0.244	
Rice straw	AF/AS	1.2	STMR/STMR-P	90	1.33	0	5	20	25	0	0.067	0.267	0.333	
Rice grain	GC	0.74	STMR/STMR-P	88	0.84	20		20		0.168182		0.168		
Rape meal	SM	0.022	STMR/STMR-P	88	0.03	0	10	15	25	0	0.003	0.004	0.006	
Total						35	35	95	60	0.534848	0.558	1.416	0.584	

POULTRY BROILER													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice bran/pollard	CM/CF	2.2	STMR/STMR-P	90	2.44	10	10	20	5	0.24	0.244	0.489	0.122	
Rice grain	GC	0.74	STMR/STMR-P	88	0.84	20		50		0.17		0.42		
Rape meal	SM	0.022	STMR/STMR-P	88	0.03			5	5			0.001	0.001	
Total						30	10	75	10	0.41	0.244	0.911	0.123	

POULTRY LAYER													MEAN	
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice bran/pollard	CM/CF	2.2	STMR/STMR-P	90	2.44	10	5	20	20	0.244444	0.122	0.489	0.489	
Rice grain	GC	0.74	STMR/STMR-P	88	0.84	20		50		0.168182		0.42		
Rape meal	SM	0.022	STMR/STMR-P	88	0.03		10	5	15		0.003	0.001	0.004	
Total						30	15	75	35	0.412626	0.125	0.911	0.493	

SPINETORAM (233)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE											MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Corn, sweet forage	AF/AS	3.3	HR	48	6.88			80					5.5		
Beet, sugar tops	AM/AV	0.2	HR	23	0.87		20				0.174				
Rice straw	AF/AS	0.54	HR	90	0.60		10			55	0.06				0.33
Apple pomace, wet	AB	0.081	STMR	40	0.20		20	20			0.041		0.041		
Citrus dried pulp	AB	0.0624	STMR	91	0.07	10					0.007				
Rice grain	GC	0.04	STMR	88	0.05	20					0.009				
Corn, field grain	GC	0.02	STMR	88	0.02	70	50			45	0.016	0.011			0.01
Total						100	100	100	100		0.032	0.286	5.541		0.34

DAIRY CATTLE											MAX				
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)					
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP		
Corn, sweet forage	AF/AS	3.3	HR	48	6.88	45		40			3.094		2.75		
Beet, sugar tops	AM/AV	0.2	HR	23	0.87		30					0.261			
Rice straw	AF/AS	0.54	HR	90	0.60		5			25	0.03				0.15
Apple pomace, wet	AB	0.081	STMR	40	0.20	10	10	10			0.020	0.02	0.02		
Rice hulls	CM/CF	0.08	STMR	90	0.09			10					0.009		
Citrus dried pulp	AB	0.0624	STMR	91	0.07		10	20				0.007	0.014		
Rice grain	GC	0.04	STMR	88	0.05	20		20			0.009		0.009		
Corn, field grain	GC	0.02	STMR	88	0.02	25	30			75	0.006	0.007			0.017
Soybean seed	VD	0.02	STMR	89	0.02		10					0.002			
Total						100	95	100	100		3.129	0.327	2.802		0.167

Annex 6

POULTRY BROILER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Rice grain	GC	0.04	STMR	88	0.05	20		50			0.009		0.023	
Corn, field grain	GC	0.02	STMR	88	0.02	55	70		70		0.013	0.016		0.016
Soybean seed	VD	0.02	STMR	89	0.02	20	20	15			0.004	0.004	0.003	
Total						95	90	65	70		0.026	0.02	0.026	0.016

POULTRY LAYER											MAX			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Beet, sugar tops	AM/AV	0.2	HR	23	0.87			5				0.043		
Rice grain	GC	0.04	STMR	88	0.05	20		50			0.009		0.023	
Corn, field grain	GC	0.02	STMR	88	0.02	55	70		80		0.013	0.016		0.018
Soybean seed	VD	0.02	STMR	89	0.02	20	15	15			0.004	0.003	0.003	
Total						95	90	65	80		0.026	0.063	0.026	0.018

SPINETORAM (233)

ESTIMATED MEAN DIETARY BURDEN

BEEF CATTLE											MEAN			
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)				
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP	
Beet, sugar tops	AM/AV	0.135	STMR/STMR-P	23	0.59			20				0.117		
Corn, sweet forage	AF/AS	0.155	STMR/STMR-P	48	0.32				80					0.258
Apple pomace, wet	AB	0.081	STMR/STMR-P	40	0.20			20	20			0.041	0.041	
Rice straw	AF/AS	0.16	STMR/STMR-P	90	0.18			10		55		0.018		0.098
Citrus dried pulp	AB	0.0624	STMR/STMR-P	91	0.07	10					0.006857143			
Rice grain	GC	0.04	STMR/STMR-P	88	0.05	20					0.009090909			
Corn, field grain	GC	0.02	STMR/STMR-P	88	0.02	70	50		45		0.015909091	0.011		0.01
Total						100	100	100	100		0.031857143	0.187	0.299	0.108

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Beet, sugar tops	AM/AV	0.135	STMR/STMR-P	23	0.59		30	0			0.176	0	
Corn, sweet forage	AF/AS	0.155	STMR/STMR-P	48	0.32	45		40		0.1453125		0.129	
Apple pomace, wet	AB	0.081	STMR/STMR-P	40	0.20	10	10			0.02025		0.02	
Rice straw	AF/AS	0.16	STMR/STMR-P	90	0.18	0	5		25	0	0.009		0.044
Rice hulls	CM/CF	0.08	STMR/STMR-P	90	0.09	0		10		0		0.009	
Citrus dried pulp	AB	0.0624	STMR/STMR-P	91	0.07	0	10	20		0	0.007	0.014	
Rice grain	GC	0.04	STMR/STMR-P	88	0.05	20		20		0.009090909		0.009	
Corn, field grain	GC	0.02	STMR/STMR-P	88	0.02	25	30		75	0.005681818	0.007		0.017
Soybean seed	VD	0.02	STMR/STMR-P	89	0.02	0	10			0	0.002		
Total						100	95	100	100	0.180335227	0.221	0.181	0.061

POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	0.04	STMR/STMR-P	88	0.05	20		50		0.009		0.023	
Corn, field grain	GC	0.02	STMR/STMR-P	88	0.02	55	70		70	0.013	0.016		0.016
Soybean seed	VD	0.02	STMR/STMR-P	89	0.02	20	20	15		0.004	0.004	0.003	
Total						95	90	65	70	0.026	0.02	0.026	0.016

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Beet, sugar tops	AM/AV	0.135	STMR/STMR-P	23	0.59			5			0.029		
Rice grain	GC	0.04	STMR/STMR-P	88	0.05	20		50		0.009090909		0.023	
Corn, field grain	GC	0.02	STMR/STMR-P	88	0.02	55	70		80	0.0125	0.016		0.018
Soybean seed	VD	0.02	STMR/STMR-P	89	0.02	20	15	15		0.004494382	0.003	0.003	
Total						95	90	65	80	0.026085291	0.049	0.026	0.018

Annex 6

TRIFLUMEZOPYRIM (303)

ESTIMATED MAXIMUM DIETARY BURDEN

BEEF CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice straw	AF/AS	0.21	HR	90	0.23		10	60	55		0.02333	0.14	0.12833
Rice hulls	CM/CF	0.17	STMR	90	0.19			5				0.009	
Rice grain	GC	0.025	STMR	88	0.03	20		35		0.006		0.01	
Rice bran/pollard	CM/CF	0.0125	STMR	90	0.01	15			20	0.002			0.00278
Total						35	10	100	75	0.008	0.02333	0.159	0.13111

DAIRY CATTLE													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice straw	AF/AS	0.21	HR	90	0.23		5	20	25		0.01167	0.047	0.05833
Rice hulls	CM/CF	0.17	STMR	90	0.19			10				0.019	
Rice grain	GC	0.025	STMR	88	0.03	20		20		0.006		0.006	
Rice bran/pollard	CM/CF	0.0125	STMR	90	0.01	15	20	30	10	0.002	0.00278	0.004	0.00139
Total						35	25	80	35	0.008	0.01444	0.075	0.05972

POULTRY BROILER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	0.025	STMR	88	0.03	20		50		0.006		0.014	
Rice bran/pollard	CM/CF	0.0125	STMR	90	0.01	10	10	20	5	0.001	0.00139	0.003	0.00069
Total						30	10	70	5	0.007	0.00139	0.017	0.00069

POULTRY LAYER													MAX
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	0.025	STMR	88	0.03	20		50		0.006		0.014	
Rice bran/pollard	CM/CF	0.0125	STMR	90	0.01	10	5	20	20	0.001	0.00069	0.003	0.00278
Total						30	5	70	20	0.007	0.00069	0.017	0.00278

TRIFLUMEZOPYRIM (303)**ESTIMATED MEAN DIETARY BURDEN**

BEEF CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice hulls	CM/CF	0.17	STMR/STMR-P	90	0.19			5				0.009	
Rice straw	AF/AS	0.063	STMR/STMR-P	90	0.07		10	60	55		0.007	0.042	0.0385
Rice grain	GC	0.025	STMR/STMR-P	88	0.03	20		35		0.005682		0.01	
Rice bran/pollard	CM/CF	0.0125	STMR/STMR-P	90	0.01	15			20	0.002083			0.00278
Total						35	10	100	75	0.007765	0.007	0.061	0.04128

DAIRY CATTLE													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice hulls	CM/CF	0.17	STMR/STMR-P	90	0.19		0	10			0	0.019	
Rice straw	AF/AS	0.063	STMR/STMR-P	90	0.07	0	5	20	25	0	0.0035	0.014	0.0175
Rice grain	GC	0.025	STMR/STMR-P	88	0.03	20		20		0.005682		0.006	
Rice bran/pollard	CM/CF	0.0125	STMR/STMR-P	90	0.01	15	20	30	10	0.002083	0.00278	0.004	0.00139
Total						35	25	80	35	0.007765	0.00628	0.043	0.01889

POULTRY BROILER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	0.025	STMR/STMR-P	88	0.03	20		50		0.01		0.014	
Rice bran/pollard	CM/CF	0.0125	STMR/STMR-P	90	0.01	10	10	20	5	0.00	0.00139	0.003	0.00069
Total						30	10	70	5	0.01	0.00139	0.017	0.00069

POULTRY LAYER													MEAN
Commodity	CC	Residue (mg/kg)	Basis	DM (%)	Residue dw (mg/kg)	Diet content (%)				Residue Contribution (ppm)			
						US-CAN	EU	AU	JP	US-CAN	EU	AU	JP
Rice grain	GC	0.025	STMR/STMR-P	88	0.03	20		50		0.005682		0.014	
Rice bran/pollard	CM/CF	0.0125	STMR/STMR-P	90	0.01	10	5	20	20	0.001389	0.00069	0.003	0.00278
Total						30	5	70	20	0.007071	0.00069	0.017	0.00278

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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 12 to 21 September 2017. The FAO Panel of Experts had met in preparatory sessions from 07 to 11 September 2017. 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. During the meeting the FAO Panel of Experts was responsible for reviewing pesticide use patterns (use of good agricultural practices), data on the chemistry and composition of the pesticides and methods of analysis for pesticide residues and for estimating the maximum residue levels that might occur as a result of the use of the pesticides according to good agricultural use practices. The WHO Core Assessment Group was responsible for reviewing toxicological and related data and for estimating, where possible and appropriate, acceptable daily intakes (ADIs) and acute reference doses (ARfDs) of the pesticides for humans. 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.

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