codex alimentarius commission

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

WORLD HEALTH ORGANIZATION

JOINT OFFICE: Viale delle Terme di Caracalla 00153 ROME Tel: 39 06 57051 www.codexalimentarius.net Email: codex@fao.org Facsimile: 39 06 5705 4593

ALINORM 08/31/24

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX ALIMENTARIUS COMMISSION

Thirty-first Session
Geneva, Switzerland, 30 June - 4 July 2008

REPORT OF THE FORTIETH SESSION OF THE CODEX COMMITTEE ON PESTICIDE RESIDUES

Hangzhou, China, 14 – 19 April 2008

Note: *This report includes Codex Circular Letter CL 2008/9-PR*

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CX 4/40.2 **CL 2008/9-PR**
April 2008

TO: - Codex Contact Points
- Interested International Organizations

FROM: Secretary,
Codex Alimentarius Commission
Joint FAO/WHO Food Standards Programme
Viale delle Terme di Caracalla,
00153 Rome, Italy

SUBJECT: DISTRIBUTION OF THE REPORT OF THE FORTIETH SESSION OF THE CODEX COMMITTEE ON PESTICIDE RESIDUES (ALINORM 08/31/24)

The report of the Fortieth Session of the Codex Committee on Pesticide Residues will be considered by the 31st Session of the Codex Alimentarius Commission (Geneva, Switzerland, 30 June - 4 July 2008).

PART A: MATTERS FOR FINAL ADOPTION BY THE 31ST SESSION OF THE CODEX ALIMENTARIUS COMMISSION:

1. DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES AT STEP 8 (ALINORM 08/31/24, APPENDIX II); AND

2. PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES AT STEPS 5/8 (ALINORM 08/31/24, APPENDIX III)

Governments and interested international organizations wishing to comment on the above Draft MRLs and Proposed Draft MRLs at Step 8 and Step 5/8, including the implications which the Proposed Draft Maximum Residue Limits may have for their economic interest, should do so in writing in conformity with the Procedures for the Elaboration of Codex Standards and Related Texts (*Codex Alimentarius Procedural Manual*, *Seventeenth Edition*), preferably by email, to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (fax: +39 06 57054593; e-mail, codex@fao.org) **before 15 June 2008**.

3. CODEX MAXIMUM RESIDUE LIMITS FOR PESTICIDES RECOMMENDED FOR REVOCATION AND FOR DISCONTINUATION OF WORK (ALINORM 08/31/24, APPENDIX V AND APPENDIX VIII)

Governments and interested international organizations wishing to comment on the proposed revocations (Appendix V) or discontinuation of work on the draft MRLs (Appendix VIII) should do so in writing, preferably by email, to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (fax: +39 06 57054593; e-mail, codex@fao.org) **before 15 June 2008**.

PART B: MATTERS FOR PROVISIONAL ADOPTION BY THE 31ST SESSION OF THE CODEX ALIMENTARIUS COMMISSION:

PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES AT STEP 5 (ALINORM 08/31/24, APPENDIX IV)

Governments and interested international organizations are invited to submit comments on the above proposed MRLs, including the implications which the Proposed Draft Maximum Residue Limits may have for their economic interest, should do so in writing in conformity with the Procedures for the Elaboration of Codex Standards and Related Texts (*Codex Alimentarius Procedural Manual*, *Seventeenth Edition*), preferably by email to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (fax: +39 06 57054593; e-mail: codex@fao.org) **before 15 June 2008**.

PART C: REQUEST FOR COMMENTS AND INFORMATION ON:

1. DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES AT STEP 6 (ALINORM 08/31/24, APPENDIX VII)

Those countries and observers specified under individual compounds in the ALINORM 08/31/24 concerning matters related to the FAO Panel of the JMPR (GAP, residue evaluation, intake assessment etc.) on specific pesticide/commodity(ies) to be considered by JMPR 2008 are invited to send information or data to: **1)** Ms Yong Zhen YANG, Agricultural Officer and JMPR Secretary, Viale delle Terme di Caracalla, Rome 00153, Italy, Fax:+39 06 57053224, E-mail: YoungZhen.Yang@fao.org ; **2)** Dr Angelika TRITSCHER, WHO JMPR Secretary, Appia Avenue 20, 1211 Geneva 27, Switzerland, Fax: +41 22 791 4848, E-mail: tritschera@who.int ; **3)** Dr Zongmao CHEN, Chairperson of the Committee, Academician, Chinese Academy of Engineering, Professor, Chinese Academy of Agricultural Sciences, No.1, Yunqi Road, Hangzhou/Zhejiang 310008, P.R. CHINA, Fax: +86 571 8665 0056, Email: ccprc@agri.gov.cn ; and **4)** Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme,Viale delle Terme di Caracalla, 00153 Rome, Italy (fax: +39 06 57054593; e-mail: codex@fao.org) **by 15 June 2008.**

The deadline for the submission of concern form together with necessary data is **15 June 2008.**

Those countries and observers specified under individual compounds in the ALINORM 08/31/24 concerning matters related to the future JMPR meetings (GAP, residue evaluation, intake assessment etc.) on specific pesticide/commodity(ies) to be considered at subsequent years by JMPR, are invited to send information or data **one year before** JMPR considers these compounds at the addresses indicated above.

SUMMARY AND CONCLUSIONS

The summary and conclusions of the 40th Session of the Codex Committee on Pesticide Residues are as follows:

MATTERS FOR ADOPTION BY THE 31ST SESSION OF THE COMMISSION

The Committee recommended to the Commission:

- Adoption of the draft and draft revised MRLs at Step 8 and proposed draft MRLs at Step 5/8 (paras 35-104, Appendix II and Appendix III);
- Revocation of certain existing Codex MRLs (paras 35-104 and Appendix V);
- Adoption of the proposed draft MRLs for certain commodities at Step 5 (paras 35-104 and Appendix IV);

Approval of the following new work

- Priority List for the establishment of MRLs for certain pesticides (paras 135-154 and Appendix X);
- The Estimation of Measurement Uncertainty (paras 118-123) and Appendix IX (Project Document);
- Revision of the CCPR Risk Analysis Principles (paras 129-134).

Discontinuation of the following work

- The Committee decided to discontinue the work on the establishment of MRLs for several pesticide/commodity combinations (paras 35-104 and Appendix VIII).

MATTERS OF INTEREST TO THE COMMISSION

The Committee:

- agreed to prepare a paper describing in more detail the proposed pilot process taking into account the issues relating to "Achieving Globally Harmonized MRLs Through Codex" for consideration by the next session of the Committee (paras 163-173).

MATTERS OF INTEREST TO THE JMPR

The Committee:

- Noted that the JMPR Secretariat agreed to consider the JMPR MRL estimation process through the publication of the MRL Calculator summary table in the JMPR report together with a short explanation of how the MRL was determined at the 2008 JMPR meeting (para. 38);
- Decided to return the MRLs for CARBARYL (008) for cherries; citrus fruits; citrus juice; citrus pulp, dry; dried grapes (=currants, raisins and sultanas); grape juice; grape pomace, dry; grapes and stone fruits to Step 6 due to acute intake concerns pending the 2008 JMPR consideration of alternative GAPs for cherries (para. 42);
- Decided to return the draft MRLs for DIMETHOATE (027) for lettuce, head and peppers, sweet to Step 6, awaiting the 2008 JMPR evaluation of alternative GAP (para. 44);
- Decided to retain the existing CXL for ENDOSULFAN (032) for tea, green, black for 4 years under the periodic review procedure at the request of China who agreed to submit data for the 2010 JMPR evaluation (para. 47);
- Noted that malathion was scheduled for JMPR evaluation for MALATHION (049) for wheat in 2008 and decided to withdraw all the draft MRLs at Step 7, as no animal transfer data were available (para. 54);
- Noted that this compound CARBENDAZIM (072) was being evaluated for toxicology by the EC in 2008 and that the outcome would be provided to JMPR (para. 57);
- Decided to retain all the draft MRLs for CHLORPYRIFOS-METHYL (90) at Step 7 awaiting the 2009 JMPR evaluation (para. 59);
- Decided to return the draft MRLs for METHOMYL (094) to Step 6 for brassica vegetables;

celery; fruiting vegetable; cucurbits; grapes and leafy vegetables pending alternative GAP analysis by the JMPR in 2008 (para. 60);

- Decided to return the draft MRLs for CARBOFURAN (096) for cantaloupe; cucumber; mandarin; oranges, sweet, sour; potato; squash, summer; sweet corn, corn on the cob to Step 6 due to acute intake concern, awaiting JMPR 2008 toxicology. Belgium will provide Carbosulfan metabolism data on citrus fruit in order to refine the acute dietary risk assessment (para. 62);
- Agreed to retain the proposed MRL for PHORATE (112) for potato at Step 7 awaiting advice on the availability of data on processing for review by JMPR in 2009 (para. 66);
- Decided to return the proposed MRLs for OXAMYL (126) for citrus fruits; cucumber; melons, except watermelons and peppers to Step 6 pending the 2008 JMPR consideration of alternative GAPs and to retain the CXL for for tomato for four years under the Periodic Review Procedure noting that new data will be reviewed for alternative GAP by 2008 JMPR (paras 68-69);
- Agreed to retain all existing CXLs for METALAXYL (138) for residue evaluation by JMPR in 2013 noting that some uses were being supported in Thailand and the USA (para. 74) and to retain all the draft MRLs for METALAXYL-M (212) at Step 7, awaiting the periodic review of metalaxyl by JMPR in 2012 (toxicology) and 2013 (residues) (para. 96);
- Decided to retain the MRL for PROCHLORAZ (142) for mushrooms at Step 7, noting that additional data would be available to support an alternative GAP for evaluation by 2009 JMPR (para. 75);
- Decided to retain the CXL for TRIAZOPHOS (143) for cereal grains for four years under the Periodic Review Procedure noting that data will be submitted by China for further evaluation by JMPR (para. 77);
- Decided to retain the proposed MRL for grapes at Step 7 for FENPYROXIMATE (193) , pending a review of alternative GAP by JMPR in 2010 (para. 93);
- Decided to retain all the draft and proposed draft MRLs for HALOXYFOP (194) at Steps 4 and 7, pending the outcome of the 2009 JMPR evaluation (para. 94);
- Noted that additional data could be available to establish the MRL for DIFENOCONAZOLE (224) for banana for review by JMPR (para. 101);
- Agreed that in future matters in relation to ADI and ARfD arising from JMPR evaluation would be considered under item related to JMPR considerations (para. 106);
- Agreed to forward Addendum II to CX/PR 08/40/04 to the JMPR for advice, and to consider the reply of the JMPR at its next session (para. 115);
- Agreed that for regulatory purposes whole milk should be tested and any residue results be compared with the MRLs for whole milk and ask JMPR to insert a footnote to this effect (para. 125 and para. 162);

The Delegation of Japan asked the JMPR to evaluate the potential risk of clopyralid in follow-up or rotational crops because of its persistence soil and confirmed that Japan will submit the relevant data for this evaluation and ask other countries to submit data if available which was also encouraged by the FAO (para. 139);

The Representative of FAO pointed out that the pilot project on the establishment of Codex MRLs prior to national governments would have significant implications for the work of the FAO Panel of JMPR and the extent of these implications were not clear at this stage and would need to be carefully considered by the experts at the JMPR 2008 (para. 170).

MATTERS OF INTEREST TO OTHER CODEX COMMITTEES

CCGP

- The Committee agreed to request the approval of the Commission for new work on the revision of the Risk Analysis Principles applied by the Codex Committee on Pesticide Residues, which would incorporate the Criteria for the Prioritization Process of Compounds for Evaluation by JMPR and the MRL Periodic Review Procedure (paras. 129-134).

CCMAS

- The Committee noted that the working group had supported the development of guidance on the estimation of measurement uncertainty on the basis of the empirical approach ("top down") and had discussed the relationship between the work on pesticide residue analysis and the work of the Committee on Methods of Analysis and Sampling. The Committee also agreed to consult with the CCMAS in the preparation of the document as the documents on measurement uncertainty prepared by these Committees should be complementary and reflect a consistent approach (paras 118-123).

TABLE OF CONTENTS

Paragraphs

LIST OF APPENDICES

Pages

LIST OF ABBREVIATIONS
(Used in this Report)

CAC	Codex Alimentarius Commission
CCFA	Codex Committee on Food Additives
CCGP	Codex Committee on General Principles
CCMAS	Codex Committee on Methods of Analysis and Sampling
CCNFSDU	Codex Committee on Nutrition and Foods for Special Dietary Uses
CCPR	Codex Committee on Pesticide Residues
CCRVDF	Codex Committee on Residues of Veterinary Drugs in Foods
CLI	CropLife International
EFSA	European Food Safety Authority
EWG	Electronic Working Group
EC	European Community
FAO	Food and Agricultural Organization of the United Nations
GEMS/Food	Global Environment Monitoring System - Food Contamination Monitoring and Assessment Programme
JECFA	Joint FAO/WHO Expert Committee on Food Additives
JMPR	Joint FAO/WHO Meetings on Pesticide Residues
OECD	Organisation for Economic Co-operation and Development
SPS Agreement	Agreement on the Application of Sanitary and Phytosanitary Measures
USA	United States of America
WHO	World Health Organization
WTO	World Trade Organization

ARfD	Acute Reference Dose
ADI	Acceptable Daily Intake
CXL	Codex Maximum Residue Limit for Pesticide
DIE	Daily Intake Estimate
GAP	Good Agricultural Practice in the Use of Pesticides
EMRL	Extraneous Maximum Residue Limit
HR	Highest residue in edible portion of a commodity found in trials used to estimate a maximum residue level in the commodity
IESTI	International Estimated of Short-Term Intake
MRL	Maximum Residue Limit

INTRODUCTION

1. The Codex Committee on Pesticide Residues (CCPR) held its 40th Session in Hangzhou, China, from 14 to 19 April 2008 at the kind invitation of the Government of China. Professor Chen Zongmao, Academician of the Chinese Academy of Engineering chaired the Session, assisted by Dr H. J. Jeuring of the Food and Consumer Product Safety Authority of the Netherlands as Co-chairperson. The Session was attended by 227 delegates representing 58 Member Countries, 1 Member organization and 8 International Organizations. The list of participants is attached as Appendix I to this Report.

OPENING OF THE SESSION

2. Mr Wei Chaoan, Vice Minister of Agriculture, China, opened the session. In welcoming participants, he emphasized the important contribution of Codex standards and related texts in protecting the health of consumers and in reducing technical barriers to trade. Mr Wei informed the delegates about the current status and achievements of agriculture in China and ensured China's continuing support to the Committee as the host government and wished delegates a successful meeting.

3. Dr Victoria Sekitoleko, the FAO Representative in China, welcomed delegates on behalf of FAO and WHO. She highlighted the growing concerns of farmers and consumers over pesticide residues and emphasized the importance of the work of the Committee. She also welcomed China's recently established Joint Technical Committee on Pesticides between the Ministry of Agriculture and the Ministry of Health and expressed the wish that such efforts would be replicated in other developing countries through South-South cooperation.

Division of Competence[1]

4. The Committee noted the division of competence between the European Community (EC) and its Member States, according to paragraph 5, Rule II of the Procedure of the Codex Alimentarius Commission, as presented in CRD 10.

ADOPTION OF THE AGENDA (Agenda Item 1)[2]

5. The Committee agreed to discuss the following matters under Agenda Item 10 (Other Business and Future Work):

- Consideration of matters arising from the Global Minor Use Summit (CX/PR 08/40/10);
- Milk and milk fat maximum residue limits (CX/PR 08/40/11);
- Achieving globally harmonized MRLs through Codex (CX/PR 08/40/12);
- Proposal by Argentina on the revision of the *Risk Analysis Principle applied by the Codex Committee on Pesticide Residues* (CRD 11); and
- Proposal by Japan to update the list of risk management policies used by CCPR attached to the R*isk Analysis Principle applied by the Committee on Pesticide Residues,* by including the recently developed procedure for "concern forms".

6. With these amendments, the Provisional Agenda, as contained in CX/PR 08/40/1, was adopted as the Agenda for the Session.

[1] CRD 10 (Division of the Competence between the European Community and its Member States).
[2] CX/PR 08/40/1; CRD 11 (Comments from Argentina).

APPOINTMENT OF RAPPORTEURS (Agenda Item 2)

7. Mr D. Lunn (New Zealand) and Ms K. Monk (United States of America) were appointed as rapporteurs.

MATTERS REFERRED TO THE COMMITTEE BY THE CODEX ALIMENTARIUS COMMISSION AND/OR OTHER CODEX COMMITTEES (Agenda Item 3)[3]

8. The Committee noted that a number of matters referred from the 30th Session of the Codex Alimentarius Commission (CAC); the 59th and 60th Sessions of the Executive Committee; and other Codex Committees, presented by the Secretariat, contained the decisions of the above bodies, and were for information purposes or would be discussed in more detail by the current session of the CCPR under the relevant Agenda Items.

Strategic plan 2008-2013

9. The Committee noted that activities such as 1.1, 2.2, 2.3, 2.5, 3.3 listed in Part II of the Codex Alimentarius Strategic Plan 2008-2013 were related to the ongoing work of the Committee or had already been addressed in recently completed documents and had been included in the Codex Procedural Manual.

Interval and duration of Codex meetings (Proposals 3 and 4)

10. The Committee noted that its work depended on the schedule and outcome of JMPR meetings/evaluations and agreed to inform the Commission that the current one year interval and six day duration of the Committee's meetings were appropriate and necessary in order to accomplish its work.

REPORT ON ITEMS OF GENERAL CONSIDERATION BY THE 2007 JOINT FAO/WHO MEETINGS ON PESTICIDE RESIDUES (AGENDA ITEM 4)[4]

11. The JMPR Secretariat informed the Committee that at the 2007 JMPR meeting 31 pesticides were evaluated, including 6 new compounds and 10 compounds that were reviewed within the Periodic Re-evaluation Programme of CCPR. The Committee was informed that a new separate chapter has been introduced in the JMPR report, where JMPR responds in detail to specific concerns raised by CCPR. The JMPR secretariat advised that details on these items would be considered when discussing the individual compounds under agenda item 5.

2.1. SHORT-TERM DIETARY INTAKE ASSESSMENT: FURTHER CONSIDERATIONS

12. The 2007 JMPR continued discussions from the 2006 meeting on uncertainties in the calculation and interpretation of the international estimated short-term intake (IESTI). In this context JMPR also considered the Opinion by the European Food Safety Authority (EFSA) on 'Acute dietary intake assessment of pesticide residues in fruit and vegetables'. JMPR acknowledged the usefulness of the detailed analysis performed by EFSA, and noted that changes in the variability factor had less influence on the outcome of the IESTI than the use of the MRL instead of the HR in the equation. JMPR concluded that the IESTI equation using the HR is appropriate for its intended purpose, i.e. as an indicator for assessing the acceptability of MRLs. However, using the MRL in the equation may have peceived benefits and is currently applied for enforcement purposes. However adjustments to the IESTI equation would be necessary for such a purpose. JMPR recommended to FAO and WHO to hold an

[3] CX/PR 08/40/2; CRD9 (comments from Chile).

[4] Pesticide Residues in Food 2007, Joint FAO/WHO Meeting on Pesticide Residues, Report 2007, FAO Plant Production and Protection paper 191, Rome, 2007; CRD 14 (comments from the European Community), CRD11 (comments from Argentina).

expert consultation to look further into these issues. The JMPR Secretariat informed the Committee that currently there are no funds available to follow up on this recommendation.

13. The EC supported the recommendation by JMPR to hold an expert consultation and offered to provide meeting rooms in Brussells and interpretation services. The EC also informed the Committee of work by EFSA to reconsider the IESTI equation.

2.2. CODEX MAXIMUM RESIDUE LIMITS FOR COMPOUNDS NO LONGER SUPPORTED BY COMPANIES/SPONSORS

14. The Committee was informed that for two compounds, vinclozolin and permethrin, scheduled for evaluation at the 2007 JMPR, no data were submitted since the compounds were no longer supported by the manufacturers. Also one compound on the 2008 JMPR agenda, bioresmethrin, is no longer supported and no data were submitted. Since JMPR recommendations are based only on scientific evaluation of the data supplied, no evaluation can be performed for compounds for which no data are supplied and a recommendation to withdraw existing CXLs may be made. It is then up to CCPR to consider possible actions.

15. China, with the support of Argentina, noted that some of these compounds no longer supported at the international level may still be used, particularly in developing countries and that this continued use needs to be considered. It was suggested that in exceptional cases the CXL could be maintained for a limited time period, e.g. 1 or 2 years, if there is clear commitment by interested parties to provide the necessary data. However, such an exception can only be considered if no consumer risk has been identified.

2.3. TOXICOLOGICAL RELEVANCE OF TRIAZOLE FUNGICIDES AND THEIR COMMON METABOLITES

16. The Committee was informed that the JMPR had evaluated a number of triazole fungicides in the past. These compounds share common metabolites in variable amounts, with either higher or lower toxicity than the parent compounds. Since these metabolites cannot be linked to a specific triazole compound they need to be evaluated on their own. The JMPR did not have sufficient information to conclude this evaluation. The Committee was informed that for the 2008 JMPR a call for data on these common metabolites had been issued. Toxicological data on the main triazole metabolites had been submitted and will be evaluated by the 2008 JMPR. JMPR had also noted the possibility of combined exposure to triazole fungicides with a common mode of action, and recommended that work be undertaken to identify triazole fungicides that should be considered together in a cumulative risk assessment. JMPR was aware of on-going activities in this area and welcomed regular updates on these activities.

17. The EC informed the Committee that work was being undertaken in this area and agreed to keep the JMPR Secretariat informed.

2.4 SETTING OF REFERENCE VALUES FOR ORGANOPHOSPHORUS PESTICIDES: RELEVANCE OF THE BIOCHEMICAL CHARACTERISTICS OF THE INDIVIDUAL COMPOUNDS

18. In response to a EC comment that the differences in the ARFDs for two organophosphate pesticides resulted from the weight given to human data available for one of the compounds, the JMPR secretariat clarified that the difference is not due to the use of human data for one compound and not the other, but rather to the biological nature of the different enzymes affected by the different organophosphate pesticides.

2.5 CONSIDERATION OF SELECTION OF RESIDUE DATA FROM SUPERVISED TRIALS

19. The 2007 JMPR reaffirmed that the estimation of STMR and HR values relies on the selection of residue data from trials within GAP. When several residue values are reported from replicate samples taken from one experimental plot, the JMPR will use the highest reported residue value from plots matching GAP.

2.6 RECONSIDERATION OF ALTERNATIVE GAPS

20. The Committee was informed that the 2007 JMPR reviewed the document CX/PR 07/39/2-Add.1 (presented by the USA) and CRD 3 (comments from the EC) from the 39th Session of CCPR. The JMPR agreed with the proposals in general. However, the JMPR expressed reservations about the proposal to derive an "acceptable highest residue" for the situation where an alternative GAP is not available.

21. The JMPR emphasized that its work is based on the best available scientific information. A theoretical calculated value based solely on toxicology and consumption cannot be used to estimate a maximum residue level. JMPR has to consider in its residue evaluations all aspects of the use and the fate of the pesticide and its residues, which implies that all studies that provide such information are necessary.

2.7 MRLS FOR PROCESSED FOODS (ESTABLISHMENT OF MRLS AND/OR PROCESSING FACTORS FOR PROCESSED AND READY-TO-EAT FOODS)

22. The JMPR provided comments on the proposal made by the EC and the US regrading the establishment of MRLs and processing factors for processed commodities. It reiterated its support for the existing policy that MRLs for raw agricultural commodities apply to all processed foods and feeds derived from them (without adjustment), and that separate MRLs are not recommended for processed commodities unless residues are shown to concentrate during processing. However, the JMPR concluded that guidance is required to clarify when processing studies may be necessary; when maximum residue levels should be recommended for processed commodities; and the appropriate use of default processing factors.

23. The EC agreed with the conclusions of the JMPR noting that when residues are diluted during processing, it is necessary for JMPR to document the processing factors used in their decision making and in the dietary intake estimation.

24. China, supported by Argentina, suggested that guidelines for processing studies should be developed. After some discussion the Committee requested the US and EC to update the discussion paper for consideration at the 41st meeting of the Committee, taking the JMPR and the ongoing OECD work into account.

2.8 CROP GROUPS AND COMMODITY GROUP MRLS

25. With respect to crop grouping and commodity grouping, JMPR reaffirmed that commodity group MRLs may be proposed on the following minimum conditions:

1) The pesticide is registered or authorized for use on the crop group; and

2) Relevant and adequate residue data are available for at least one major commodity of the group.

26. The JMPR recommended that the committee should note the distinction between the crops that are treated with pesticides and commodities for which MRLs are established, and should aim for an integrated system that will, in practice, produce more crop group registrations with corresponding commodity group MRLs.

27. Recommendation on the principles for crop groups and detailed suggestions regarding crop groups that readily lend themselves to commodity group MRLs and also commodities that are not suitable to group MRLs were provided by the JMPR.

2.9 STATISTICAL METHODS FOR THE ESTIMATION OF MRL

28. The Committee was informed that the JMPR has looked at several methods for statistical calculation of MRLs over a number of years and considered them a valuable tool to assist in estimating appropriate MRLs. JMPR emphasized that use of statistical calculation requires data sets that meet very high standards and the data are rarely sufficient and extrapolations are always needed.

29. The EC supported the use of statistical methods in MRL derivation, while acknowledging that there is still a need for scientific judgment.

30. While acknowledging the role of expert judgment, the USA emphasized the importance of the use of harmonized statistical methods where possible and the US requested the committee to encourage the JMPR to make efforts to record its decision making so that the derivation of the MRLs is more transparent[5]. This is important in all cases, but is particularly important in those cases where the data sets do not allow use of harmonized statistical methods.

2.10 OECD LIVESTOCK FEED TABLES - JMPR CALCULATION OF LIVESTOCK DIETARY BURDEN

31. The Committee was informed that JMPR was now using the OECD livestock feed tables to estimate livestock dietary burdens and details of the dietary burden calculation and a worked example on using the OECD tables were provided in the 2007 JMPR report.

2.11 STATUS REPORT FROM THE OECD EXPERT GROUP ON RESIDUE CHEMISTRY GUIDELINES

32. The Committee was informed that the 2007 JMPR was presented with an update of the OECD Residue Chemistry Expert Group (EG) activities in 2007. The JMPR reiterated that the OECD documents will be utilized in the preparation of future versions of the FAO Manual. Such utilization will promote maximum harmonization and will facilitate work sharing.

2.12 RESIDUES IN DRIED CHILLI PEPPERS

33. JMPR evaluated the effects of the drying of chilli peppers on the residues of 14 pesticides using data supplied by the Republic of Korea and other available information, and recommended the continued use of concentration factor of 10 for the estimation of MRLs in dried chilli peppers using the HR values estimated for residues in or on sweet peppers and recommended the use of a concentration factor of 7 for the estimation of MRLs in dried chilli peppers from maximum residue levels in or on fresh chilli peppers.

34. However, where residue data, reflecting the GAP and representative processing studies on residues in or on chilli peppers are available, the MRLs for dried chilli peppers should be estimated based on the actual experimental data.

[5] CX/PR 08/40/3-Add.2.

DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES IN FOOD AND FEEDS AT STEP 7 AND 4 (Agenda Item 5)[6]

GENERAL REMARKS

35. The Committee noted that there were several cases where the EC had expressed concerns over the proposed MRLs. These concerns were based on general or systematic differences in risk assessment policies or procedures. In particular the EC uses diets and intake models of the EU Member States compiled by EFSA both for long and short dietary intake assessments. The JMPR Secretariat clarified that at the international level an established process using the 13 GEMS/Food Consumption Cluster Diets is used. When performing intake assessment on a national or regional level, more detailed data may be available and may allow a more refined assessment.

36. The Committee noted that the EC also has a policy of establishing ADIs and ARfDs only for the general population and not for subgroups. The JMPR Secretariat clarified that the international risk assessment is performed to protect the most sensitive part of the population, and only in the case of a developmental endpoint when a value may be overly conservative for other parts of the population would the establishment of a second value for the general population, other than women of child-bearing age be considered.

37. With respect to the information provided by EC about how it uses human data in the establishment of toxicological reference values, the JMPR Secretariat clarified that in general, the appropriateness and validity of each study, including ethical conduct and sufficient representativeness are considered and then the results are always considered together with the overall database in a weight-of-evidence approach. In the case of human studies, the application of a data derived uncertainty/safety factor instead of the use of default factor is then considered. Uncertainty factors lower than the default should not be interpreted as being 'less safe', but as a more scientific approach which uses all available data.

38. The Committee noted the request from the Delegation of USA for increased transparency in the JMPR MRL estimation process through the publication of the MRL Calculator summary table in the JMPR report together with a short explanation of how the MRL was determined. The JMPR Secretariat agreed to consider this request at the 2008 JMPR meeting.

AZINPHOS-METHYL (002)

39. The Committee noted a concern of the EC and Norway on the evaluation of the substance by JMPR. Argentina expressed its full support for toxicological evaluation by the 2007 JMPR. The Committee noted that toxicology data had been evaluated by JMPR in 2007 and was scheduled for residue review by 2010 JMPR.

CAPTAN (007)

40. The Committee decided to advance the draft MRLs for cherries; dried grapes (=currants, raisins and sultanas); grapes; melons, except watermelon; peach; plums (including prunes); pome fruits; strawberry and tomato to Step 8, noting the reservation of the EC and Norway on acute intake assessment, and the concern of Australia on the residue definition for intake risk assessment (THPI).

CARBARYL (008)

41. The Committee decided to revoke the CXL for apple and to advance the MRLs for chilli peppers, dried; cranberry; peppers, chili for adoption at Step 5/8.

[6] CL 2007/40-PR; CX/PR 08/40/3; CX/PR 08/40/3-Add.1; CX/PR 08/40/3-Add.2; CRD 6 (comments from China); CRD 8 (comments from Thailand); CRD 13 (comments from Indonesia); CRD 14 (comments from EC); CRD 16 (comments from Argentina); CRD 18 (comments from Republic of Korea).

42. The Committee decided to return the MRLs for cherries; citrus fruits; citrus juice; citrus pulp, dry; dried grapes (=currants, raisins and sultanas); grape juice; grape pomace, dry; grapes and stone fruits to Step 6 due to acute intake concerns pending the 2008 JMPR consideration of alternative GAPs for cherries.

43. The Committee agreed to consider revocation of existing CXLs or withdrawal of proposed/draft MRLs for processed commodities at or below the levels of related raw agriculture commodities at the next meeting.

DIMETHOATE (027)

44. The Committee decided to return the draft MRLs for Lettuce, Head and Peppers, Sweet to Step 6, awaiting the 2008 JMPR evaluation of alternative GAP.

ENDOSULFAN (032)

45. The Committee noted the comments of the Delegation of Indonesia who did not support advancement of the MRLs for broccoli; celery; cherries and tomato beyond Step 6 because Endosulfan was not used in Indonesia any more.

46. The Committee decided to withdraw the draft MRLs for broccoli; celery; cherries and tomato because the data for the 2006 JMPR to identify alternative GAPs to resolve short-term intake concerns were not available and to recommend revocation of the CXLs for broccoli; celery and cherries.

47. The Committee decided to retain the existing CXL for tea, green, black for 4 years under the periodic review procedure at the request of China who agreed to submit data for the 2010 JMPR evaluation.

FENITROTHION (037)

48. The Committee, noting the reservation of the European Community and Norway on the proposed MRLs for apple; rice and wheat, decided to advance the draft MRL for apple to Step 8 and to advance all proposed draft MRLs at Step 4 to Step 5/8 and the subsequent revocation or withdrawal of the associated MRLs or CXLs.

49. The Committee, noting that no supporting data were available, decided to revoke the CXL for Rice, polished; wheat bran, processed and wheat wholemeal which were retained under the 4 years periodic review procedure, noting that those processed commodities would be covered by the CXL for cereal grains

FENTHION (039)

50. The Committee noted that data to support alternative GAP for cherries; citrus fruit and olives would be provided by Australia and decided to maintain the CXLs for cherries; citrus fruits; olives and olive oil, virgin for 4 years under the periodic review procedure.

51. The Committee also decided to delete the proposed MRLs for olive oil, virgin; mandarins and orange, sweet, sour.

FOLPET (041)

52. The Committee noted that the ARfD for women of child-bearing age had been confirmed by 2007 JMPR.

53. The Committee was informed that the EC had submitted concern form for the draft MRLs for apple; grapes; lettuce, head and melons, except watermelon, as requested by the 39th session of CCPR.

MALATHION (049)

54. The Committee noted that malathion was scheduled for JMPR evaluation for wheat in 2008 and decided to withdraw all the draft MRLs at Step 7, as no animal transfer data were available.

55. The Committee decided to recommend revocation of the CXLs for raspberries, red, black and root and tuber vegetables, as recommended by JMPR in 1999.

THIABENDAZOLE (065)

56. The Committee decided to advance the draft MRL for citrus fruits at Step 4 to Step 5/8, as proposed by the 2007 JMPR, and to recommend the subsequent revocation of the citrus fruits CXL and the withdrawal of the citrus fruits proposed MRL.

CARBENDAZIM (072)

57. The Committee noted that this compound was being evaluated for toxicology by the EC in 2008 and that the outcome would be provided to JMPR.

58. The Committee agreed to advance the proposed draft MRLs for cherries; grapes; lettuce, head; mango and oranges, sweet, sour to Step 8 with the subsequent revocation of the existing CXL for mango.

CHLORPYRIFOS-METHYL (90)

59. The Committee decided to retain all the draft MRLs at Step 7 awaiting the 2009 JMPR evaluation.

METHOMYL (094)

60. The Committee decided to return the draft MRLs to Step 6 for brassica vegetables; celery; fruiting vegetable; cucurbits; grapes and leafy vegetables pending alternative GAP analysis by the JMPR in 2008 and to withdraw the proposed MRL for apples as this was no longer supported.

ACEPHATE (095)

61. The Committee decided to retain the draft MRLs for flowerhead brassicas, mandarins, nectarine, peach, peppers and pome fruits at Step 7 and to consider their revocation at the next meeting if no data were available to support alternative GAP.

CARBOFURAN (096)

62. The Committee decided to return the draft MRLs for cantaloupe; cucumber; mandarin; oranges, sweet, sour; potato; squash, summer; sweet corn, corn on the cob to Step 6 due to acute intake concern, awaiting JMPR 2008 toxicology. Belgium will provide carbosulfan metabolism data on citrus fruit in order to refine the acute dietary risk assessment.

METHAMIDOPHOS (100)

63. The Committee decided to retain the draft MRLs for flowerhead brassicas, mandarins, nectarine, peach, peppers and pome fruits at Step 7 and to consider their withdrawal at the next meeting, in line with the decisions taken for acephate (95) as these proposed MRLs arise from the use of acephate.

PHOSMET (103)

64. The Committee noting the reservation expressed by the EC and Norway on the proposed MRLs

for apples, apricots, nectarines and pears due to short-term intake concerns, decided to advance the proposed MRLs for apricot, citrus fruits, nectarine and pome fruits for adoption at Step 5/8 and recommended revocation the related CXLs and withdrawal of the proposed MRLs at Step 7.

65. The Committed noted that all residue results for blueberries were below 10 mg/kg and agreed to recommend an MRL of 10 mg/kg, instead of the 15 mg/kg MRL proposed by JMPR, and to advance this 10 mg/kg MRL for adoption at Step 5/8 with the subsequent revocation of the related CXL and withdrawal of the proposed MRL at Step 7.

PHORATE (112)

66. The Committee agreed to retain the proposed MRL for potato at Step 7 awaiting advice on the availability of data on processing for review by JMPR in 2009.

OXAMYL (126)

67. The JMPR Secretariat clarified that the concern form and information from the EC had been submitted to the JMPR Secretariat. However, since the difference in ARfD setting is due to policy differences in the use of human studies and not due to different scientific data or interpretation, there will not be any further consideration of the ARfD by JMPR.

68. The Committee decided to recommend revocation of the CXL for apple because no data are available, and to return the proposed MRLs for citrus fruits; cucumber; melons, except watermelons and peppers to Step 6 pending the 2008 JMPR consideration of alternative GAPs.

69. The Committee decided to retain the CXL for tomato for four years under the Periodic Review Procedure noting that new data will be reviewed for alternative GAP by 2008 JMPR.

TRIADIMEFON (133)

70. The Committee noted the acute intake concerns expressed by the EC and Norway for the proposed MRLs for bananas; grapes; peppers; tomato and melons, except watermelons and that the EC would submit a concern form.

71. The Committee decided to advance the MRLs for banana; dried grapes (=currants, raisins and sultanas); fruiting vegetables other than cucurbits; fruiting vegetables, cucurbits and grapes for adoption at Step 5.

72. The Committee decided to advance the MRLs for apple; artichoke, globe; cereal grains; chilli peppers, dried; coffee beans; currants, black, red, white; edible offal (mammalian); eggs; meat (from mammals other than marine mammals); milks; pineapple; poultry meat; poultry, edible offal of; straw and fodder (dry) of cereal grains; strawberry and sugar beet for adoption at Step 5/8, and the subsequent revocation of the associated CXLs.

PROCYMIDONE (136)

73. The Delegation of the EC informed the Committee that it had established a different ADI and ARfD based on different toxicological endpoints and that they would submit a concern form.

METALAXYL (138)

74. The Committee agreed to retain all existing CXLs, noting that Metalaxyl was scheduled for residue evaluation by JMPR in 2013 and that some uses were being supported in Thailand and USA.

PROCHLORAZ (142)

75. The Committee decided to retain the MRL for mushrooms at Step 7, noting that additional data would be available to support an alternative GAP for evaluation by 2009 JMPR.

TRIAZOPHOS (143)

76. The Committee decided to advance the MRLs for cotton seed and cotton seed oil, crude for adoption at Step 5/8, and to advance the MRL for soya bean (immature) to Step 5 awaiting further data from Thailand on edible portion residues.

77. The Committee decided to retain the CXL for cereal grains for four years under the Periodic Review Procedure noting that data will be submitted by China for further evaluation by JMPR.

78. The Committee decide to recommend revocation of the CXLs for broad bean, shelled (succulent) (=immature seeds); brussels sprouts; cabbages, Head; carrot; cattle meat; cattle milk; cauliflower; coffee beans; common bean (pods and/or immature seeds); onion, Bulb; peas (pods and succulent=immature seeds); pome fruits; potato; soya bean (dry); strawberry and sugar beet as recommended by 2007 JMPR.

CARBOSULFAN (145)

79. The Committee decided to return the MRLs for mandarin; oranges, sweet, sour and potato to Step 6 in line with the decisions taken for Carbofuran (096).

CYHALOTHRIN(146)

80. The Committee was informed that the EC had established a different ADI and ARfD for lambda-Cyhalothrin, and would submit a concern form.

CLOFENTEZINE(156)

81. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs.

CYFLUTHRIN/BETA-CYFLUTHRIN (157)

82. The Committee decided to advance the proposed MRLs for broccoli and cabbage, head for adoption at Step 5 only due to acute intake concerns.

83. The Committee, noting the reservation of the EC and Norway on cauliflower and citrus fruit, decided to advance all proposed draft MRLs except those for broccoli and cabbages, Head for adoption to Step 5/8, with the subsequent revocation of the associated CXLs.

84. The Committee also decided to revoke the CXL for maize as recommended by the 2007 JMPR.

PROPICONAZOLE (160)

85. The Committee decided to withdraw the proposed MRL for soya bean forage (green) as this was a fresh forage commodity and to advance all the remaining proposed draft MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs.

86. The Committee also decided to revoke the CXLs for almonds; grapes; mango; oats; peanut; peanut, whole and stone fruits as recommended by the 2007 JMPR.

FLUSILAZOLE (165)

87. The Committee noted that the EC would submit a Concern Form regarding their intake concerns for pome fruits; peach; nectarine and bovine edible offal and decided to advance the proposed draft MRLs for edible offal (mammalian); nectarine; peach and pome fruits to Step 5 and advance all the other proposed draft MRLs to Step 5/8 with the subsequent revocation of the associated CXLs.

88. The Committee agreed to maintain the CXL for cattle, edible offal of, pending the finalization of the draft MRL for edible offal (mammalian).

OXYDEMETON-METHYL (166)

89. The Committee decided to withdraw all the draft MRLs for apple; cabbage, head; grapes and oranges, sweet, sour because no alternative GAP could be determined and no new information was available.

TRIADIMENOL (168)

90. In line with the decisions taken for triadimefon (133), the Committee decided to advance the proposed MRLs for banana; dried grapes (= currants, raisins and sultanas); fruiting vegetables other than cucurbits; fruiting vegetables, cucurbits and grapes for adoption at Step 5 and to advance all remaining proposed MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs.

91. The Committee also agreed to recommend revocation of the CXLs for barley, barley straw and fodder, Dry; chick-pea (dry), fodder beat; hops, Dry; mango; oat straw and fodder, Dry; oats, onion, Spring; (green); Onion, Welsh, peas (pods and succulent=immature seeds); peppers, sweet, pomme fruits, raspberries, Red, Black; rye; rye straw and fodder, Dry, tomato, wheat; wheat straw and fodder, Dry. The Committee noted that “fat soluble” should be added to the definition.

CYROMAZINE (169)

92. The Committee decided to withdraw the draft MRLs for cabbages head and spinach due to dietary intake concerns and the absence of alternative GAP, and advance the remaining draft MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs.

FENPYROXIMATE (193)

93. The Committee decided to advance the proposed MRL for apple to Step 8 and to retain the proposed MRL for grapes at Step 7, pending a review of alternative GAP by JMPR in 2010.

HALOXYFOP (194)

94. The Committee decided to retain all the draft and proposed draft MRLs at the current steps 4 and 7, pending the outcome of the 2009 JMPR evaluation.

ESFENVALERATE (204)

95. The Committee decided to retain the draft MRLs for cotton seed, tomato and wheat at Step 7 awaiting the phase-out of fenvalerate.

METALAXYL-M (212)

96. The Committee decided to retain all the draft MRLs at Step 7, awaiting the periodic review of metalaxyl by JMPR in 2012 (toxicology) and 2013 (residues).

INDOXACARB (216)

97. The Committee noted that the 2007 JMPR alternative GAP assessment had concluded there was no longer a dietary intake concern for cabbage head and decided to advance the draft MRL to Step 8.

BIFENAZATE (219)

98. The Committed noted that the 2007 JMPR had reassessed the animal dietary burden for bifenazate and decided to advance the draft MRL for meat (from animals other than marine mammals) for adoption at Step 8.

AMINOPYRALID (220)

99. The Committee decided to advance all proposed MRLs to Step 5/8, noting that a commodity codes were needed for fodder (dry) of cereal grains and straw of cereal grains.

QUINOXYFEN (222)

100. The Committee noted that the JMPR in 2007 had recalculated the animal dietary burden for quinoxyfen and decided to advance the proposed draft MRL for meat (from mammals other than marine mammals) for adoption at Step 5/8, and deleted draft MRL at step 7 for this commodity.

DIFENOCONAZOLE (224)

101. The Committee decided to advance all draft MRL to step 5/8 and noted that additional data could be available for banana for review by JMPR.

DIMETHOMORPH (225)

102. The Committee decided to advance all the proposed MRLs for adoption at Step 5/8 as there was no intake concern identified by JMPR.

PYRIMETHANIL (226)

103. The Committee decided to withdraw the MRL for citrus pulp, dry because it was covered by the citrus fruit MRL, and to advance all remaining MRLs for adoption at Step 5/8 as there was no intake concern identified by JMPR.

ZOXAMIDE (227)

104. The Committee decided to advance all the proposed MRLs for adoption at Step 5/8 as there was no intake concern identified by JMPR.

RECOMMENDED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES IN/ON SPICES

MEVINPHOS (053)

105. 140. The Committee decided to withdraw the MRLs for spices, grains; spices, fruits and berries; spices, roots and rhizomes because there were no data available to support these commodities.

Other Matters

106. The Committee agreed that in future, matters in relation to ADI and ARfD arising from JMPR evaluation would be considered under item related to JMPR considerations.

PROPOSED DRAFT REVISION OF THE CODEX CLASIFICATION OF FOODS AND ANIMAL FEEDS AT STEP 3 (AGENDA ITEM 6)[7]

107. The Committee recalled that the last session of the Committee had agreed to return the Proposed Draft Revision to Step 3 and to establish an electronic working group led by the Netherlands and the United States in order to revise commodity groups according to the agreed timetable, and prepare a draft document outlining principles and guidance on the selection of the representative commodities for the purposes of extrapolation of MRLs.

Revision of the Classification

108. The Delegation of the Netherlands, while introducing the revised document, indicated that the working group had revised the commodity groups for "Bulb Vegetables" and "Fruiting Vegetables, Other then Cucurbits" in the light of the comments received, as presented in Addendum 1. Regarding the other commodity groups that had been scheduled for revision in 2008, the Delegation indicated that due to delay in the work of the International Crop Grouping Consulting Committee and to limited resources, the working group had completed its work only on the commodity groups "Berries and Small Fruits" and "Edible Fungi". In addition, the working group had also initiated work on "Citrus Fruits" and "Oilseeds".

109. The Committee noted that the revised groups "Berries and Small Fruits" and "Edible Fungi" will be circulated for comments.

110. The Delegation of the Netherlands pointed out that some codes were missing for "Bulb Vegetables" and "Fruiting Vegetables, other than cucurbits" and that additional work would be required on the code system, in order to provide codes.

111. The Committee agreed to re-establish the electronic working group led by the Netherlands and the United States, working in English and open to all Members and Observers, to continue the revision of the Classification according to the agreed timetable, including the redrafting of the commodity groups for "Bulb Vegetables" and "Fruiting Vegetables, Other than Cucurbits", taking into account the comments presented at the session; the redrafting of the commodity groups for "Berries and Small Fruits" and "Edible Fungi"; and the revision of the coding system.

112. The Delegation of Senegal expressed the view that the working group should not be conducted only in English as this would make it difficult for their delegation and other French speaking delegations to participate. The Vice-Chair recalled the earlier decision thaty the working group would be conducted in English and the Committee confirmed this decision.

Selection of Representative Commodities

113. The Delegation of the USA presented Addendum II on the selection of representative commodities and recalled that residue levels on representative commodities in a crop group are used to estimate residue levels on related commodities. The document also recalled the current extrapolation principles followed by JMPR and the recommendations made in by JMPR in 2006 under General Considerations in this respect. The Delegation indicated that the working group had considered the available information on the use of representative commodities provided by several regulatory authorities and noted that the principles used were generally similar. The Delegation of the USA noted that this same conclusion was reached in the OECD document presented as CRD 5. The Delegation highlighted the need for flexibility in the selection of suitable representative commodities. It was therefore proposed, for the purposes of residue extrapolation, to use these principles and to select representative commodities within each crop group in parallel with the revision of the respective crop

[7] CX/PR 08/40/4, , CRD 5 (comments of OECD), CRD 6 (comments of China), CRD 7 (comments of Japan), CRD 9 (comments of Chile),CRD 14 (comments of the EC), CRD 15 (comments of Indonesia), CRD 19 (prepared by the Netherlands); CRD 20 (Information submitted by the Netherlands and United States) .

grouping classification, based on the consideration of all available information, and to prepare two separate documents: the revised Classification and a guidance document on the selection of representative commodities.

114. The Committee agreed that the document on the principles and guidance on the selection of representative commodities should be developed separately from the revision of the Classification.

115. The Committee agreed that the content of the document should be revised in the light of the discussions and considered further at its next session. The Committee further agreed to forward Addendum II to CX/PR 08/40/04 to the next session of the JMPR for advice, and to consider the reply of the JMPR at its next session.

Status of the Proposed Draft Revision of the Codex Classification of Foods and Animal Feeds

116. The Committee agreed to return Addendum 1 of the Proposed Draft Revision to Step 2 for redrafting by the above-mentioned working group, circulation for comments at Step 3 and consideration by the next session; and to consider Addendum 2 at its next session in the light of the advice that would be provided by JMPR.

MATTERS RELATED TO METHODS OF ANALYSIS FOR PESTICIDE RESIDUES (Agenda Item 7)[8]

117. The Report of the Working Group on Methods of Analysis and Sampling was presented by its Chair, Dr Josef Brodesser, Representative of IAEA.

DISCUSSION PAPER ON THE ESTIMATION OF UNCERTAINTY OF RESULTS FOR THE DETERMINATION OF PESTICIDE RESIDUES (Agenda Item 7a)

118. The Representative of IAEA introduced the discussion paper which had been prepared at the request of the last session of the Committee as a basis for a guidance document on the estimation of measurement uncertainty The Representative recalled that estimation of measurement uncertainty for multi-residue methods was problematic for many laboratories, and noted that when applying the "bottom-up" mathematical model calculation, the application of existing Guidelines such as ISO Guide 2 and Eurochem GUM was very complicated and time consuming.

119. The Representative highlighted the empirical methods ("top-down") currently available, based on internal laboratory data such as derived from method validation, quality control, quality assurance, use of certified reference material, and externally generated data such as the outcome of inter-laboratory comparisons and the use of proficiency testing schemes. The Representative noted that although a number of guidance documents existed there was no specific guidance that would allow pesticide residue laboratories to generate their respective MU values in a relatively easy way and therefore specific guidelines would be very useful to provide practical guidance to laboratories applying single and multi-residue methods.

120. The Committee noted that the working group had supported the development of guidance on the estimation of measurement uncertainty on the basis of the empirical approach ("top down") and had discussed the relationship between the work on pesticide residue analysis and the work of the Committee on Methods of Analysis and Sampling. The IAEA Representative recalled that CCMAS addressed measurement uncertainty from a general perspective and did not specifically consider matters related to pesticide residue analysis, but was kept informed of the work of the CCPR in order to ensure consistency throughout Codex. The Committee was also informed that the last session of the CCMAS had proposed new work on the revision of the Guidelines on Measurement Uncertainty (CAC/GL 54-2004) in order to provide additional guidance in this area.

[8] CX/PR 08/40/5; CX/PR 08/40/5; CRD 2 (comments of Kenya); CRD 11 (comments of Argentina), CRD 13 (comments of Indonesia), CRD 22 (Report of the Working Group on Methods of Analysis and Sampling)

121. Several delegations supported the development of guidance on measurement uncertainty in pesticide residue analysis in view of the difficulties faced by laboratories, especially in developing counrties, and indicated that they also applied empirical calculations of uncertainty at the national level. Some delegations pointed out that the differences in approach between national authorities on the use of measurement uncertainty for enforcement purposes could create trade problems.

122. The Committee agreed to propose new work on the revision of the Guidelines on the Estimation of Measurement Uncertainty (CAC/GL 59-2006) for approval by the 31st Session of the Commission (see project document in Appendix IX). The Committee further agreed that an electronic working group coordinated by IAEA, open to all members and observers and working in English, would prepare a Proposed Draft Revision of the Guidelines in order to provide practically oriented recommendations including examples on the estimation of measurement uncertainty and application of the concept for pesticide residue laboratories, as described in the project document. The Committee agreed that examples should be included in the guidance document in order to facilitate the better understanding of the estimation of measurement uncertainty by residue testing laboratories.

123. The Committee agreed to consult with the CCMAS in the preparation of the document as the documents on measurement uncertainty prepared by these Committees should be complementary and reflect a consistent approach.

DISCUSSION PAPER ON THE PROCEDURES FOR SEPARATION OF MILK FAT FROM WHOLE MILK (Agenda Item 7b)

124. The Representative of IAEA recalled that following the recommendations of JMPR 2004 that methods should be made available for whole milk and milk fat, the Committee had considered the procedures for the separation of milk fat from whole milk at its 38th and 39th Sessions, on the basis of the information provided on current practices for pesticide residue analysis in milk at the national level in various countries. The Committee noted that the Working Group had considered the discussion paper prepared by IAEA on this issue, as agreed at the last session.

125. The Committee agreed with the proposal of the Delegation of Australia, as supported by the working group, that for regulatory purposes, whole milk should be tested and any residue results be compared with the MRLs for whole milk. The Committee also agreed to ask JMPR to insert a footnote to this effect for MRLs for whole milk in all cases where the MRLs have been established for both milk fat and whole milk. The detailed recommendation is presented under Agenda Item 10 ii.

EUROPEAN MODEL FOR PESTICIDE RESIDUE ANALYSIS: EXPERIENCE GAINED THROUGH EUROPEAN PROFICIENCY TESTS (Agenda Item 7c)

126. The Committee noted the information provided by the Delegation of the European Community on the activities of the EC Reference Laboratory (CRL) and data supporting the effective application of the MU default value of 50% over the range 0.04 to 5 mg/kg for compliance purposes, based on the CRL proficiency studies, and noted that this information was taken into account in the discussion on measurement uncertainty.

Other matters

127. The Committee also noted that the Delegation of the European Community would prepare a discussion paper on the analysis of pesticide residues in processed products for consideration by the next session

128. The Committee expressed its appreciation to Dr Brodesser and to the working group for their excellent work and agreed that the working group would be reconvened during its next session and chaired by IAEA.

DISCUSSION PAPER ON THE CONSIDERATION OF THE MRLS PERIODIC REVIEW PROCEDURE (Agenda Item 8)[9]

129. The Committee recalled that at its last session, following the recommendation of the 24th Session of the Codex Committee on General Principles, it had agreed to review the *MRLs Periodic Review Procedure* in the light of more recent documents related to the MRL setting process and to consider whether this procedure should be published in the Procedural Manual[10]. The Committee noted that all the relevant documents were contained in the working document CX/PR 08/40/7 and the question to be considered was whether the Procedure was still relevant for the work of the Committee and, if so, how it should be revised in light of the two newly adopted documents.

130. The Co-Chairperson drew the attention of the Committee to several overlaps and inconsistencies existing among these documents and proposed to establish an electronic working group, which would revise the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues* and incorporate the *Criteria for the Prioritization Process of Compounds for Evaluation by JMPR* and the *MRL Periodic Review Procedure* and would also address the concerns of some delegations about the impact of the periodic review procedure on the revocation of MRLs when the pesticide was still used in some countries.

131. A number of delegations supported the proposal by the Vice-Chairperson to establish an electronic working group to revise the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues*.

132. The Committee then considered the scope of the revision. The Delegation of Japan requested that the revision also address the newly introduced form for expressing concerns about draft MRLs. The Delegation of Argentina, referring to its written comments in CRD 11 and CRD 17, expressed concern on the current periodic review procedure in relation to the *Working Principles for Risk Analysis for Application in the Framework of the Codex Alimentarius* in that revocation of pesticide MRLs according to a pre-defined time frame rather than because of new scientific evidence was not a decision based on science.

133. After some discussion, the Committee agreed to request the approval of the Commission for new work on the revision of the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues*, which would incorporate the *Criteria for the Prioritization Process of Compounds for Evaluation by JMPR* and the *MRL Periodic Review Procedure* and take into account the above discussions, as well as the latest risk management policies developed by the CCPR.

134. The Committee agreed to establish an electronic working group[11] led by Argentina, working in English and Spanish, to prepare a proposed revision for consideration by the 41st Session of the Committee. The Committee noted that the Codex Committee on General Principles was scheduled to review the consistency of risk analysis principles elaborated by the relevant Codex committees by 2011.

ESTABLISHMENT OF CODEX PRIORITY LIST FOR PESTICIDES (Agenda Item 9)[12]

135. The report of the electronic Working Group on Priorities was presented by Mr. Ian Reichstein (Australia). He noted the success of the new working format with more countries participating. When

[9] CX/PR 08/40/7; CRD 9 (Comments of Chile); CRD 11 (Comments of Argentina); CRD 17 (Comments of Argentina)

[10] ALINORM 07/30/24, para. 11

[11] Argentina, Australia, Brazil, Chile, China, France, European Community, Japan, Mexico, New Zealand, Thailand, United States of America, CropLife International and IUPAC.

[12] ALINORM 07/30/24, Appendix VIII; CX/PR 08/40/8; CX/PR 08/40/9; CRD 1 (prepared by Australia); CRD 2 (comments from Kenya); CRD 3 (comments from Malawi); CRD 8 (comments from Thailand); CRD 11 (comments from the EC); CRD 12 (comments from Japan); CRD 13 (comments from Indonesia); CRD 14 (comments from the EC); CRD 18 (comments from Republic of Korea).

introducing the document he highlighted the main issues discussed and the amendments proposed to the tentative list of scheduled compounds.

Scheduling of compounds

New Compounds

136. With respect to the requests for evaluation of new compounds for both toxicology and residues, the Working Group made the following proposals.

137. In addition to the five new compounds (chlorantraniliprole, mandipropamid, prothioconazole, spinetoram, spirotetramate) scheduled at the 39th CCPR, azoxystrobin was tentatively scheduled for 2008. Fluopicolide, spirodiclofen, and metaflumizone were tentatively scheduled for 2009. Dicamba, clopyralid, etoxazole and meptyldinocap were tentatively scheduled for 2010.

138. Pyroxsulam was removed from the schedule for 2009 because it does not appear to leave detectable residues and therefore does not fulfill the current prioritization criteria.

139. Regarding the residue evaluations for clopyralid, the Delegation of Japan asked the JMPR to evaluate the potential risk of clopyralid in follow-up or rotational crops because of its persistence soil and confirmed that Japan will submit the relevant data for this evaluation and ask other countries to submit data, if available, which was also encouraged by the FAO.

Periodic re-evaluations

140. With respect to chemicals scheduled for periodic re-evaluation, the Committee took note of the following changes to the 2008 schedule and agreed to the following changes to the 2009 schedule.

141. Aldicarb (117) was deferred by one year for 2010 to 2012 for toxicological evaluation and 2013 for residue evaluation.

142. Bioresmethrin (093) and permethrin (120) are no longer supported for the establishment of Codex MRLs by the manufacturer, hence these two compounds have been removed from the 2008 JMPR schedule. The Committee agreed that these two compounds will be reconsidered at the 41st CCPR for revocation of existing CXLs.

143. The residue evaluation for buprofezin (173) has been rescheduled from 2009 to 2008 and will be done together with the toxicological evaluation.

144. Tebuconazole has been rescheduled from 2009 to 2010 for toxicological evaluation and to 2011 for residue review.

145. The additional compounds for periodic re-evaluation have been listed in Appendix X.

146. The JMPR Secretariat reminded the Committee of the previous recommendation of JMPR for further alignment of toxicological and residue evaluations. This recommendation should be taken up again and implemented in the next year to the extent possible.

Evaluations

147. Regarding the request for additional evaluations, the Committee agreed to add the following to the priority list:

- Flusilazole (165) and Procymidone (136)— concern raised by the EC to review the ARfD, scheduled for 2009.

148. With respect to residue evaluation:

- Indoxacarb (216) – additional MRLs for stone fruits (peach, plum, cherry, nectarine), vegetables cucurbits, cranberry, southern pea and mint, scheduled for 2009.

- Paraquat (57)—additional MRL for rice, scheduled for 2009.

- Prochloraz (142)—alternative GAP for mushroom, scheduled for 2009.

- Zoxamide (227) — alternative GAP for cucurbits, scheduled for 2009.

- Fenthion (39)—alternative GAP for citrus fruit ,olive and cherries, scheduled for 2009.

- Triadmefon/triadimenol— alternative GAP for grapes, scheduled for 2009.

- Carbofuran (096)—Carbosulfan metabolism data on citrus fruits, updated acute dietary risk assessment, scheduled for 2009.

- Fenpyroximate (193) – re-evaluation of data for grapes following new ARfD recommended by 2007 JMPR, scheduled for 2010.

- Difenoconazole (224) — alternative GAP for banana for higher MRL (China); additional MRLs for green beans, passion fruit (Kenya), scheduled for 2010.

- Triazophos (143)—residue evaluation for edible portion of soybean immature seeds supported by Thailand; cereals including rice supported by China, preliminary scheduled for 2010. The Committee noted that Thailand and China will coordinate the year for submission of data.

- Endosulfan (32)—residue evaluation for tea green /black, supported by China, scheduled for 2010.

Replacing racemic chemicals with resolved isomers

149. The Delegation of Argentina, in reference to their comments provided in CRD 11, emphasized that it is important that JMPR should take all relevant information into account when considering racemic mixtures and resolved isomers, and that the Committee should consider the needs of all countries before withdrawing CXLs on racemic mixtures, if they are no longer supported by a manufacturer. The JMPR secretariat clarified that all available information on racemic mixtures is being considered and a 'read-across' between mixtures is often necessary. The Co-chair of the Committee confirmed that it is in the remit of the Committee as the risk management body to decide on withdrawal of CXLs when JMPR proposals are considered for individual compounds under agenda item 5, where all countries can raise their concerns and all information is taken into account.

New deadlines for residue data submission

150. The Chairperson of the working group reminded the Committee about its previous decision to establish new deadlines for data submission for residue evaluation. As of by JMPR 2010, for evaluation in 2011, full residue data submissions are required by November 30th.

Modification of the prioritization criteria

151. In response to the proposal from the US to modify current prioritization criteria with respect to compounds leading to no detectable residues, the Committee after some discussion decided to defer this discussion to the electronic working group lead by Argentina which would be revising the document on Risk Analysis Principles applied by the Committee on Pesticide Residues which includes the prioritization criteria (see also Agenda item 8).

152. In the meantime the Committee decided to remove pyroxsulam from the schedule for 2009, since it does not appear to lead to residues. The USA noted its reservation to this decision and emphasized that, in agreement with earlier comments by the WHO Representative, public health protection is an important goal and that establishing Codex MRLs for compounds not leading to residues could contribute to this goal.

153. The Committee agreed to forward the amended priority list to the 31st Session of the Codex Alimentarius Commission for approval of new work (see Appendix X).

154. The Committee agreed to re-establish the electronic working group under the chairmanship of Australia working in English only and encouraged interested parties to participate and to provide information to this working group.

OTHER BUSINESS AND FUTURE WORK (Agenda Item 10)

CONSIDERATION OF MATTERS ARISING FROM THE GLOBAL MINOR USE SUMMIT (AGENDA ITEM 10(i))[13]

155. The Representative of FAO reported the outcome and recommendations of the Global Minor Use Summit, which was held in Rome from 3-7 December 2007, jointly organised by the US Department of Agriculture, Foreign Agriculture Service, the U. S. IR-4 Project, the US-EPA and FAO. The Summit was well attended by more than 300 participants from 60 countries reflecting the global interest in addressing issues on minor uses and speciality crops. The lack of Codex MRLs for these crops was identified as a core problem. The report and the conclusions of the Summit are available under http://www.fao.org/ag/AGP/AGPP/Pesticid/JMPR/GMUS/GMUS.htm and http://ir4.rutgers.edu/GMUS/index.htm .

156. The Representative reported that the Summit prepared recommendations among which was the recommendation to establish a "CCPR Working Group on Minor Uses and Speciality Crops" in order to address problems relating to MRL setting on minor uses and speciality crops on a regular basis at a global platform.

157. The Committee discussed how to proceed on this matter. Many delegations supported the establishment of the working group, and expressed their wish to participate in its work. However, some delegations expressed their concerns about the scope of the work of this working group in relation to the Committee's terms of reference.

158. Some delegations emphasized the importance of defining the term "minor use" and "specialty crop".

159. The Committee noted the OECD and/or other organizations were currently working on this matter and that it was important to avoid duplication of efforts. However, it was noted that these groups have limited membership and do not provide a global platform. The Delegation of Mexico, speaking on behalf of the CCLAC members present at the current CCPR session, drew the attention of the Committee to the fact that many members of Codex are not members of the OECD, as expressed in CRD 21.

160. After some discussion the Committee agreed to establish an electronic working group chaired by United States and co-chaired by Australia and Kenya, open to all interested parties, working in English. The working group will prepare a discussion paper for consideration by the next session of the Committee according to the following terms of reference: to provide guidance to facilitate the establishment of Codex MRLs for minor uses and speciality crops.

[13] CX/PR 08/40/10; CRD 6 (comments from China); CRD 9 (comments from Chile).

MILK AND MILK FAT MAXIMUM RESIDUE LIMITS (Agenda Item 10 (ii))[14]

161. The Committee noted that the recommendations contained in the working document CX/PR 08/40/11 prepared by Australia had already been considered under Agenda Item 7 when the Report of the *ad hoc* Working Group on Methods of Analysis and Sampling (CRD 22) was discussed and agreed that for regulation and monitoring of residues of fat-soluble pesticides in milk, where MRLs have been established for both whole milk and milk fat, whole milk should be analysed and the result should be compared with the Codex MRL for whole milk.

162. The Committee agreed to request JMPR to add the following note to this effect alongside the MRL for whole milk in all cases where MRLs are established for both milk fat and whole milk: "for monitoring and regulatory purposes, whole milk is to be analysed and the result compared to the MRL for whole milk".

ACHIEVING GLOBALLY HARMONIZED MRLS THROUGH CODEX (AGENDA ITEM 10 (iii))[15]

163. The Delegation of the USA introduced the document which recommends development of a process for the evaluation of new chemicals to allow JMPR to recommend MRLs before national governments. The Delegation emphasized that such a process would facilitate global harmonization with Codex MRLs, where possible by allowing national authorities to know what JMPR will recommend and what is likely to be adopted by Codex, before they establish their own MRLs.

164. The Delegation proposed that the Committee initiate a pilot project using an upcoming new chemical that is being evaluated using the global joint review process. In this process several national governments or other authorities receive the application at the same time, work together on the evaluation, and then make their independent regulatory decisions, while focusing on harmonization, where possible. Under this proposal the JMPR would receive the dossier at the same time as national governments and would conduct their own independent evaluation in parallel.

165. The Delegation expressed the view that among the benefits of the new process would be increased harmonization/ acceptance of Codex MRLs, thus facilitating trade of food and feed, and that, it was therefore important to explore all possibilities in order to make the work of Codex as relevant timely, and efficient as possible. The Delegation of Argentina supported this view, so that Codex, actually becomes the international forum for the establishment of MRLs, while achieving further consistency with WTO rules. It was noted that new process would need to ensure that sufficient data are available to allow an independent JMPR assessment and that proposed GAP were sufficiently defined and binding so that the recommended MRLs would represent the actual use practices that are ultimately registered.

166. The Delegation proposed that the Committee using the pilot chemical establish a working group to develop the detailed process.

167. During the subsequent discussions, a number of issues were raised, including the independent status of JMPR, the availability of sufficient data, late changes of proposed GAP, the timing of submissions, the handling of differing interpretations of the same data, and inconsistencies with the existing Codex and JMPR policies and procedures.

168. A number of delegations supported the idea to initiate a pilot project and gain experience from its application, while noting the issues that would need to be addressed.

169. The Representative of WHO pointed out that there were a number of advantages to JMPR performing toxicological evaluations in parallel with national authorities since it would help to eliminate

[14] CX/PR 08/40/11.
[15] CX/PR 08/40/13.

some discrepancies in the outcome of ADI and ARfD setting among various authorities.

170. The Representative of FAO generally supported the proposal to initiate a pilot project and noted that setting international standards prior to national standards was an established practice in other international standards setting bodies such as IPPC, and that it helped harmonization and acceptance of such standards. However, the Representative pointed out that this pilot project would have significant implications for the work of the FAO Panel of JMPR and the extent of these implications was not clear at this stage and would need to be carefully considered by the experts at the JMPR 2008.

171. Some delegations pointed out that the proposal had significant implications for government agencies involved in the registration of pesticides and that the Procedural Manual would require amendments. However, because this important document was made available only shortly before the meeting, there was no time to develop a position on it.

172. The Co-Chairperson reminded the Committee that in the past implementation of the pilot project on the development of interim MRLs had lead to new procedures that greatly increased the efficiency of the work of the Committee and proposed that in this case as well the Committee should establish more an electronic working group under the chairmanship of the United States to prepare a discussion paper should address outstanding issues describing, in detail, the process for evaluation and the pilot project. Several delegations and observers supported this proposal.

173. After some discussion, the Committee agreed to establish an electronic working group[16] led by the United States and working in English to prepare a discussion paper describing in more detail the proposed pilot process taking into account the issues noted above, for consideration by the next session of the Committee.

Risk Analysis Principles applied by the Codex Committee on Pesticide Residues

174. The Committee noted that the proposal by Argentina on the revision of the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues* (CRD 10); and the proposal by Japan to update the list of risk management policies used by CCPR attached to the R*isk Analysis Principle applied by the Committee on Pesticide Residues,* by including the recently developed procedure for "concern forms" were already discussed under Agenda 8, therefore there was no need to rediscuss them under Other Business.

DATE AND PLACE OF THE NEXT SESSION (Agenda Item 11)

175. The Committee was informed that its 41st Session was tentatively scheduled to be held in Beijing, China, from 20 through 25 April 2009, the final arrangements being subject to confirmation by the Host Country and the Codex Secretariat.

[16] Argentina, Australia, Brazil, Chile, China, Germany, European Community, Japan, New Zealand, Croplife International.

Annex 1

SUMMARY STATUS OF WORK

Subject	Step	Action by	Reference
Draft and Revised Draft MRLs	8	Governments, 31st CAC	Paras 35-104 and Appendix II
Proposed Draft and Revised Draft MRLs	5/8	Governments, 31st CAC	Paras 35-104 and Appendix III
Proposed Draft MRLs	5	Governments, 31st CAC, Governments, 41st CPR	Paras 35-104 and Appendix IV
Codex Maximum Residue Limits Recommended for Revocation		Governments, 31st CAC	Paras 35-104 and Appendix V
Proposed Draft and Draft MRLs Retained at Steps 7 and 4	7/4	JMPR, Governments, CCPR (depending on the year of the JMPR clarification)	Paras 35-104 and Appendix VI
Draft MRLs Returned to Step 6	6	Governments, 2008 JMPR, 41st CCPR	Paras 35-104 and Appendix VII
Proposed Draft Revision of the Codex Classification of Foods and Animal Feeds	2/3	WG led by the Netherlands, Governments, 41st CCPR	Paras 107-116
Discussion papers:			
Acieving Globally Harmonized MRLs Through Codex		EWG led by the United States, 41st CCPR	Paras 163-173
New work:			
Priority List of Pesticides (New Pesticides and Pesticides under Periodic Review)	1/2/3	31st CAC, Governments, Australia, 41st CCPR	Paras 135-154 and Appendix X
The Estimation of Measurement Uncertainty	1/2/3	31st CAC, EWG lead by IAEA, 41st CCPR	Paras. 118-123 and Appendix IX (Project Document)
Revision of the CCPR Risk Analysis Principles	Proce-dure	31st CAC, EWG led by Argentina, 41st CCPR	Para.134
Discontinuation of work:			
Discontinuation of Work on the Proposed Draft and Draft Maximum Residue Limits for Pesticides		Governments, 31st CAC	Paras 35-104 and Appendix VIII

APPENDIX I

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APPENDIX II

DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Recommended for adoption at Step 8)

	Commodity	MRL	Sourc	Step	Note
7	**Captan**				
FS	0013 Cherries	25		8	
DF	0269 Dried grapes (=currants, raisins and sultanas)	50		8	
FB	0269 Grapes	25		8	
VC	0046 Melons, except watermelon	10		8	
FS	0247 Peach	20		8	
FS	0014 Plums (including prunes)	10		8	
FP	0009 Pome fruits	15	Po	8	
FB	0275 Strawberry	15		8	
VO	0448 Tomato	5		8	
37	**Fenitrothion**				
FP	0226 Apple	0.5		8	
72	**Carbendazim**				
FS	0013 Cherries	10	Th	8	Based on thiophanate-methyl use
FB	0269 Grapes	3	b, Th	8	
VL	0482 Lettuce, Head	5	Th	8	
FI	0345 Mango	5	C	8	Based on carbendazime use.
FC	0004 Oranges, Sweet, Sour	1	B	8	
193	**Fenpyroximate**				
FP	0226 Apple	0.3		8	
216	**Indoxacarb**				
VB	0041 Cabbages, Head	3		8	
219	**Bifenazate**				
MM	0095 Meat (from mammals other than marine mammals)	0.05	(fat)	8	

APPENDIX III

PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Recommended for adoption at Step 5/8 with omission of Steps 6 and 7)

	Commodity		MRL (mg/kg)			Step	Note
8	**Carbaryl**						
HS	0444	Chilli peppers, Dried	2			5/8	
FB	0265	Cranberry	5			5/8	
VO	0444	Peppers, Chili	0.5			5/8	
37	**Fenitrothion**						
GC	0080	Cereal grains	6		Po	5/8	
MO	0105	Edible offal (mammalian)	0.05	(*)		5/8	
PE	0112	Eggs	0.05	(*)		5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.05	(*)		5/8	
ML	0106	Milks	0.01	(*)		5/8	
PM	0110	Poultry meat	0.05	(*)		5/8	
CM	1206	Rice bran, Unprocessed	40		PoP	5/8	
VD	0541	Soya bean (dry)	0.01			5/8	
CM	0654	Wheat bran, Unprocessed	25		PoP	5/8	
65	**Thiabendazole**						
FC	0001	Citrus fruits	7		Po	5/8	
103	**Phosmet**						
FS	0240	Apricot	10			5/8	
FB	0020	Blueberries	10			5/8	
FC	0001	Citrus fruits	3			5/8	
FS	0245	Nectarine	10			5/8	
FP	0009	Pome fruits	3			5/8	
133	**Triadimefon**						
FP	0226	Apple	0.3			5/8	Based on triadimenol use only
VS	0620	Artichoke, Globe	0.7			5/8	Based on triadimenol use only
GC	0080	Cereal grains	0.2			5/8	Except maize and rice. Based on triadimefon and triadimenol uses
HS	0444	Chilli peppers, Dried	5			5/8	Based on triadimefon and triadimenol uses
SB	0716	Coffee beans	0.5			5/8	Based on triadimenol use only
FB	0021	Currants, Black, Red, White	0.7			5/8	Based on triadimenol use only
MO	0105	Edible offal (mammalian)	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
PE	0112	Eggs	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
MM	0095	Meat (from mammals other than marine mammals)	0.02			5/8	[in the fat]. Based on triadimefon and triadimenol uses

			Commodity			MRL (mg/kg)	Step	Note
ML	0106	Milks	0.01	(*)		5/8		Based on triadimefon and triadimenol uses
FI	0353	Pineapple	5		Po	5/8		Based on triadimenol use only
PM	0110	Poultry meat	0.01	(*)		5/8		Based on triadimefon and triadimenol uses
PO	0111	Poultry, Edible offal of	0.01	(*)		5/8		Based on triadimefon and triadimenol uses
AS	0081	Straw and fodder(dry)of cereal grains	5			5/8		Except maize. Based on triadimefon and triadimenol uses
FB	0275	Strawberry	0.7			5/8		Based on triadimenol use only
VR	0596	Sugar beet	0.05	(*)		5/8		Based on triadimenol use only

143 Triazophos

SO	0691	Cotton seed	0.2			5/8		
OC	0691	Cotton seed oil, Crude	1			5/8		

156 Clofentezine

AM	0660	Almond hulls	5			5/8		
FC	0001	Citrus fruits	0.5			5/8		
VC	0424	Cucumber	0.5			5/8		
FB	0021	Currants, Black, Red, White	0.2			5/8		
DF	0269	Dried grapes (=currants, raisins and sultanas)	2			5/8		
MO	0105	Edible offal (mammalian)	0.05	(*)		5/8		
PE	0112	Eggs	0.05	(*)		5/8		Residues are not expected as dietary burden in poultry is zero (JMPR 2007)
FB	0269	Grapes	2			5/8		
MM	0095	Meat (from mammals other than marine mammals)	0.05	(*)		5/8		
VC	0046	Melons, except watermelon	0.1			5/8		
ML	0106	Milks	0.05	(*)		5/8		
FP	0009	Pome fruits	0.5			5/8		
PM	0110	Poultry meat	0.05	(*)		5/8		Residues are not expected as dietary burden in poultry is zero (JMPR 2007)
PO	0111	Poultry, Edible offal of	0.05	(*)		5/8		Residues are not expected as dietary burden in poultry is zero (JMPR 2007).
FS	0012	Stone fruits	0.5			5/8		
FB	0275	Strawberry	2			5/8		
VO	0448	Tomato	0.5			5/8		
TN	0085	Tree nuts	0.5			5/8		

157 Cyfluthrin/beta-cyfluthrin

FP	0226	Apple	0.1			5/8		
VB	0404	Cauliflower	2			5/8		
HS	0444	Chilli peppers, Dried	1			5/8		
FC	0001	Citrus fruits	0.3			5/8		
AB	0001	Citrus pulp, Dry	2			5/8		
SO	0691	Cotton seed	0.7			5/8		
OC	0691	Cotton seed oil, Crude	1			5/8		
VO	0440	Egg plant	0.2			5/8		
PE	0112	Eggs	0.01	(*)		5/8		

		Commodity	MRL (mg/kg)			Step	Note
MO	0098	Kidney of cattle, goats, pigs & sheep	0.05			5/8	
MO	0099	Liver of cattle, goats, pigs & sheep	0.05			5/8	
MM	0095	Meat (from mammals other than marine mammals)	1		(fat)	5/8	
ML	0106	Milks	0.04		F	5/8	
FP	0230	Pear	0.1			5/8	
VO	0051	Peppers	0.2			5/8	
VR	0589	Potato	0.01	(*)		5/8	
PM	0110	Poultry meat	0.01	(*)	(fat)	5/8	
PO	0111	Poultry, Edible offal of	0.01	(*)		5/8	
SO	0495	Rape seed	0.07			5/8	
VO	0448	Tomato	0.2			5/8	

160 Propiconazole

FI	0327	Banana	0.1			5/8	
GC	0640	Barley	0.2			5/8	
AS	0640	Barley straw and fodder, Dry	2			5/8	
SB	0716	Coffee beans	0.02			5/8	
FB	0265	Cranberry	0.3			5/8	
MO	0105	Edible offal (mammalian)	0.01	(*)		5/8	
PE	0112	Eggs	0.01	(*)		5/8	
GC	0645	Maize	0.05			5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.01	(*)	(fat)	5/8	
ML	0106	Milks	0.01	(*)		5/8	
TN	0672	Pecan	0.02	(*)		5/8	
FI	0353	Pineapple	0.02	(*)		5/8	
GC	0656	Popcorn	0.05			5/8	
PM	0110	Poultry meat	0.01	(*)	(fat)	5/8	
SO	0495	Rape seed	0.02			5/8	
GC	0650	Rye	0.02			5/8	
AS	0650	Rye straw and fodder, Dry	2			5/8	
VD	0541	Soya bean (dry)	0.07			5/8	
AL	0541	Soya bean fodder	5			5/8	
VR	0596	Sugar beet	0.02			5/8	
GS	0659	Sugar cane	0.02	(*)		5/8	
VO	0447	Sweet corn (corn-on-the-cob)	0.05			5/8	
GC	0653	Triticale	0.02			5/8	
AS	0653	Triticale straw and fodder, Dry	2			5/8	
GC	0654	Wheat	0.02			5/8	
AS	0654	Wheat straw and fodder, Dry	2			5/8	

165 Flusilazole

AB	0226	Apple pomace, Dry	2			5/8	
FS	0240	Apricot	0.2			5/8	
FI	0327	Banana	0.03			5/8	
GC	0080	Cereal grains	0.2			5/8	Except rice
DF	0269	Dried grapes (=currants, raisins and sultanas)	0.3			5/8	
PE	0112	Eggs	0.1			5/8	
AB	0269	Grape pomace, Dry	2			5/8	
FB	0269	Grapes	0.2			5/8	
MM	0095	Meat (from mammals other than marine mammals)	1		(fat)	5/8	
ML	0106	Milks	0.05		F	5/8	
PM	0110	Poultry meat	0.2			5/8	
PO	0111	Poultry, Edible offal of	0.2			5/8	

		Commodity	MRL (mg/kg)			Step	Note
SO	0495	Rape seed	0.1			5/8	
VD	0541	Soya bean (dry)	0.05			5/8	
AB	0541	Soya bean hulls	0.05			5/8	
OR	0541	Soya bean oil, Refined	0.1			5/8	
AS	0081	Straw and fodder(dry)of cereal grains	5			5/8	Except rice
VR	0596	Sugar beet	0.05			5/8	
SO	0702	Sunflower seed	0.1			5/8	
VO	0447	Sweet corn (corn-on-the-cob)	0.01	(*)		5/8	

168 Triadimenol

FP	0226	Apple	0.3			5/8	Based on triadimenol use only
VS	0620	Artichoke, Globe	0.7			5/8	Based on triadimenol use only
GC	0080	Cereal grains	0.2			5/8	Except maize and rice. Based on triadimefon and triadimenol uses
HS	0444	Chilli peppers, Dried	5			5/8	Based on triadimefon and triadimenol uses
SB	0716	Coffee beans	0.5			5/8	Based on triadimenol use only
FB	0021	Currants, Black, Red, White	0.7			5/8	Source of data: triadimefon
MO	0105	Edible offal (mammalian)	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
PE	0112	Eggs	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
MM	0095	Meat (from mammals other than marine mammals)	0.02			5/8	[in the fat]. Based on triadimefon and triadimenol uses
ML	0106	Milks	0.01	(*)	F	5/8	Based on triadimefon and triadimenol uses
FI	0353	Pineapple	5		Po	5/8	Based on triadimenol use only
PM	0110	Poultry meat	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
PO	0111	Poultry, Edible offal of	0.01	(*)		5/8	Based on triadimefon and triadimenol uses
AS	0081	Straw and fodder(dry)of cereal grains	5			5/8	Except maize. Based on triadimefon and triadimenol uses
FB	0275	Strawberry	0.7			5/8	Based on triadimenol use only
VR	0596	Sugar beet	0.05	(*)		5/8	Based on triadimenol use only

169 Cyromazine

VS	0620	Artichoke, Globe	3			5/8	
VD	0071	Beans (dry)	3			5/8	
VB	0400	Broccoli	1			5/8	
VS	0624	Celery	4			5/8	
VC	0424	Cucumber	2			5/8	
MO	0105	Edible offal (mammalian)	0.3			5/8	
PE	0112	Eggs	0.3			5/8	
VO	0050	Fruiting vegetables other than cucurbits	1		5/8 cob		Except mushrooms and sweet corn-on-the-
VL	0482	Lettuce, Head	4			5/8	
VL	0483	Lettuce, Leaf	4			5/8	
VP	0534	Lima bean (young pods and/or immature beans)	1			5/8	

		Commodity	MRL (mg/kg)		Step	Note
FI	0345	Mango	0.5		5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.3		5/8	
VC	0046	Melons, except watermelon	0.5		5/8	
ML	0106	Milks	0.01		5/8	
VO	0450	Mushrooms	7		5/8	
VL	0485	Mustard greens	10		5/8	
VA	0385	Onion, Bulb	0.1		5/8	
VA	0389	Onion, Spring (green)	3		5/8	
PM	0110	Poultry meat	0.1		5/8	
PO	0111	Poultry, Edible offal of	0.2		5/8	
VC	0431	Squash,summer	2		5/8	

220 Aminopyralid

GC	0640	Barley	0.1		5/8	
MO	0105	Edible offal (mammalian)	0.05		5/8	Except kindney
PE	0112	Eggs	0.01	(*)	5/8	
AS	0162	Hay or fodder(dry)of grasses	70		5/8	
AS	0164	Fodder(dry)of cereal grains	3		5/8	
MO	0098	Kidney of cattle, goats, pigs & sheep	1		5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.1		5/8	
ML	0106	Milks	0.02		5/8	
GC	0647	Oats	0.1		5/8	
PM	0110	Poultry meat	0.01	(*)	5/8	
PO	0111	Poultry, Edible offal of	0.01	(*)	5/8	
AS	0163	Straw of cereal grains	0.3		5/8	
GC	0653	Triticale	0.1		5/8	
GC	0654	Wheat	0.1		5/8	
CM	0654	Wheat bran, Unprocessed	0.3		5/8	

222 Quinoxyfen

MM	0095	Meat (from mammals other than marine mammals)	0.2	(fat)	5/8	

224 Difenoconazole

VS	0621	Asparagus	0.03		5/8	
FI	0327	Banana	0.1		5/8	
VB	0400	Broccoli	0.5		5/8	
VB	0402	Brussels sprouts	0.2		5/8	
VB	0041	Cabbages, Head	0.2		5/8	
VR	0577	Carrot	0.2		5/8	
VB	0404	Cauliflower	0.2		5/8	
VR	0578	Celeriac	0.5		5/8	
VS	0624	Celery	3		5/8	
FS	0013	Cherries	0.2		5/8	
MO	0105	Edible offal (mammalian)	0.2		5/8	
PE	0112	Eggs	0.01	(*)	5/8	
VA	0381	Garlic	0.02	(*)	5/8	
FB	0269	Grapes	0.1		5/8	
VA	0384	Leek	0.3		5/8	
VL	0482	Lettuce, Head	2		5/8	
VL	0483	Lettuce, Leaf	2		5/8	
FI	0345	Mango	0.07		5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.05	(fat)	5/8	

		Commodity	MRL (mg/kg)			Step	Note
ML	0106	Milks	0.005	(*)		5/8	
FS	0245	Nectarine	0.5			5/8	
FT	0305	Olives	2			5/8	
FI	0350	Papaya	0.2			5/8	
FS	0247	Peach	0.5			5/8	
FS	0014	Plums (including prunes)	0.2			5/8	
FP	0009	Pome fruits	0.5			5/8	
VR	0589	Potato	0.02			5/8	
PM	0110	Poultry meat	0.01	(*)	(fat)	5/8	
PO	0111	Poultry, Edible offal of	0.01	(*)		5/8	
SO	0495	Rape seed	0.05			5/8	
VD	0541	Soya bean (dry)	0.02	(*)		5/8	
VR	0596	Sugar beet	0.2			5/8	
SO	0702	Sunflower seed	0.02			5/8	
VO	0448	Tomato	0.5			5/8	
GC	0654	Wheat	0.02	(*)		5/8	
AS	0654	Wheat straw and fodder, Dry	3			5/8	
225	**Dimethomorph**						
VB	0400	Broccoli	1			5/8	
VB	0041	Cabbages, Head	2			5/8	
HS	0444	Chilli peppers, Dried	5			5/8	
VL	0470	Corn salad	10			5/8	
DF	0269	Dried grapes (=currants, raisins and sultanas)	5			5/8	
MO	0105	Edible offal (mammalian)	0.01	(*)		5/8	
PE	0112	Eggs	0.01	(*)		5/8	
VO	0050	Fruiting vegetables other than cucurbits	1			5/8	Except fungi, edible; mushrooms; sweet corn (corn-on-the-cob); sweet corn (kernels)
VC	0045	Fruiting vegetables, cucurbits	0.5			5/8	
FB	0269	Grapes	2			5/8	
DH	1100	Hops, Dry	80			5/8	
VB	0405	Kohlrabi	0.02			5/8	
VL	0482	Lettuce, Head	10			5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.01	(*)		5/8	
ML	0106	Milks	0.01	(*)		5/8	
FI	0353	Pineapple	0.01	(*)		5/8	
VR	0589	Potato	0.05			5/8	
PM	0110	Poultry meat	0.01	(*)		5/8	
PO	0111	Poultry, Edible offal of	0.01	(*)		5/8	
FB	0275	Strawberry	0.05			5/8	
226	**Pyrimethanil**						
AM	0660	Almond hulls	12			5/8	
TN	0660	Almonds	0.2			5/8	
AB	0226	Apple pomace, Dry	40			5/8	
FS	0240	Apricot	3			5/8	
FI	0327	Banana	0.1			5/8	
VR	0577	Carrot	1			5/8	
FS	0013	Cherries	4		Po	5/8	
FC	0001	Citrus fruits	7		Po	5/8	
VP	0526	Common bean (pods and/or immature seeds)	3			5/8	
DF	0269	Dried grapes (=currants, raisins and sultanas)	5			5/8	

		Commodity	MRL (mg/kg)			Step	Note
MO	0105	Edible offal (mammalian)	0.1			5/8	
VD	0561	Field pea (dry)	0.5			5/8	
FB	0269	Grapes	4			5/8	
VL	0482	Lettuce, Head	3			5/8	
MM	0095	Meat (from mammals other than marine mammals)	0.05	(*)		5/8	
ML	0106	Milks	0.01			5/8	
FS	0245	Nectarine	4			5/8	
VA	0385	Onion, Bulb	0.2			5/8	
VA	0389	Onion, Spring (green)	3			5/8	
AL	0072	Pea hay or pea fodder (dry)	3			5/8	
FS	0247	Peach	4			5/8	
FS	0014	Plums (including prunes)	2			5/8	
FP	0009	Pome fruits	7		Po	5/8	
VR	0589	Potato	0.05	(*)		5/8	
FB	0275	Strawberry	3			5/8	
VO	0448	Tomato	0.7			5/8	

227 Zoxamide

VC	0424	Cucumber	1			5/8	
DF	0269	Dried grapes (=currants, raisins and sultanas)	15			5/8	
FB	0269	Grapes	5			5/8	
VR	0589	Potato	0.02			5/8	
VO	0448	Tomato	2			5/8	

APPENDIX IV

PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Recommended for adoption at Step 5)

	Commodity	MRL (mg/kg)	Step	Note
133 Triadimefon				
FI	0327 Banana	1	5	Based on triadimenol use only
DF	0269 Dried grapes (=currants, raisins and sultanas)	10	5	Based on triadimefon and triadimenol uses
VO	0050 Fruiting vegetables other than cucurbits	1	5	Except fungi and sweet corn. Based on triadimefon and triadimenol uses
VC	0045 Fruiting vegetables, cucurbits	0.2	5	Based on triadimefon uses only
FB	0269 Grapes	5	5	Based on triadimefon and triadimenol uses
143 Triazophos				
VP	0541 Soya bean (immature seeds)	1	5	With the pod.
157 Cyfluthrin/beta-cyfluthrin				
VB	0400 Broccoli	2	5	
VB	0041 Cabbages, Head	4	5	
165 Flusilazole				
MO	0105 Edible offal (mammalian)	2	5	
FS	0245 Nectarine	0.2	5	
FS	0247 Peach	0.2	5	
FP	0009 Pome fruits	0.3	5	
168 Triadimenol				
FI	0327 Banana	1	5	Based on triadimenol use only
DF	0269 Dried grapes (=currants, raisins and sultanas)	10	5	Based on triadimefon and triadimenol uses
VO	0050 Fruiting vegetables other than cucurbits	1	5	Except fungi and sweet corn.Based on triadimefon uses only
VC	0045 Fruiting vegetables, cucurbits	0.2	5	Based on triadimefon and triadimenol uses
FB	0269 Grapes	5	5	Based on triadimefon and triadimenol

APPENDIX V

CODEX MAXIMUM RESIDUE LIMITS FOR PESTICIDES RECOMMENDED FOR REVOCATION

	Commodity		MRL			Step
8	**Carbaryl**					
FP	0226	Apple	5			CXL-D
32	**Endosulfan**					
VB	0400	Broccoli	0.5			CXL-D
VS	0624	Celery	2			CXL-D
FS	0013	Cherries	1			CXL-D
37	**Fenitrothion**					
CM	1205	Rice, Polished	1		PoP	CXL-D
CF	1212	Wheat wholemeal	5		PoP	CXL-D
49	**Malathion**					
FB	0272	Raspberries, Red, Black	8			CXL-D
VR	0075	Root and tuber vegetables	0.5			CXL-D
126	**Oxamyl**					
FP	0226	Apple	2			CXL-D
133	**Triadimefon**					
GC	0640	Barley	0.5			CXL-D
AS	0640	Barley straw and fodder, Dry	2			CXL-D
VD	0524	Chick-pea (dry)	0.05	(*)		CXL-D
AM	1051	Fodder beet	0.05	(*)		CXL-D
DH	1100	Hops, Dry	10			CXL-D
FI	0345	Mango	0.05	(*)		CXL-D
AS	0647	Oat straw and fodder, Dry	2			CXL-D
GC	0647	Oats	0.1			CXL-D
VA	0389	Onion, Spring (green)	0.05	(*)		CXL-D
VA	0387	Onion, Welsh	0.05	(*)		CXL-D
VP	0063	Peas (pods and succulent=immature seeds)	0.05	(*)		CXL-D
VO	0445	Peppers, Sweet	0.1			CXL-D
FP	0009	Pome fruits	0.5			CXL-D
FB	0272	Raspberries, Red, Black	1			CXL-D
GC	0650	Rye	0.1			CXL-D
AS	0650	Rye straw and fodder, Dry	2			CXL-D
VO	0448	Tomato	0.2			CXL-D
GC	0654	Wheat	0.1			CXL-D
AS	0654	Wheat straw and fodder, Dry	2			CXL-D
143	**Triazophos**					
VP	0523	Broad bean, Shelled (succulent)(=immature seeds)	0.02	(*)		CXL-D
VB	0402	Brussels sprouts	0.1			CXL-D
VB	0041	Cabbages, Head	0.1			CXL-D
VR	0577	Carrot	0.5			CXL-D
MM	0812	Cattle meat	0.01	(*)		CXL-D
ML	0812	Cattle milk	0.01	(*)		CXL-D
VB	0404	Cauliflower	0.1			CXL-D
SB	0716	Coffee beans	0.05	(*)		CXL-D
VP	0526	Common bean (pods and/or immature seeds)	0.2			CXL-D
SO	0691	Cotton seed	0.1			CXL-D

		Commodity	MRL (mg/kg)		Step	Note
VA	0385	Onion, Bulb	0.05	(*)	CXL-D	
VP	0063	Peas (pods and succulent=immature seeds)	0.1		CXL-D	
FP	0009	Pome fruits	0.2		CXL-D	
VR	0589	Potato	0.05	(*)	CXL-D	
VD	0541	Soya bean (dry)	0.05	(*)	CXL-D	
FB	0275	Strawberry	0.05	(*)	CXL-D	
VR	0596	Sugar beet	0.05	(*)	CXL-D	
156	**Clofentezine**					
MM	0812	Cattle meat	0.05	(*)	CXL-D	
ML	0812	Cattle milk	0.01	(*)	CXL-D	
MO	0812	Cattle, Edible offal of	0.1		CXL-D	
157	**Cyfluthrin/beta-cyfluthrin**					
ML	0812	Cattle milk	0.01	F	CXL-D	
GC	0645	Maize	0.05		CXL-D	
VO	0445	Peppers, Sweet	0.2		CXL-D	
160	**Propiconazole**					
TN	0660	Almonds	0.05		CXL-D	
FB	0269	Grapes	0.5		CXL-D	
FI	0345	Mango	0.05		CXL-D	
GC	0647	Oats	0.05	(*)	CXL-D	
SO	0697	Peanut	0.05		CXL-D	
SO	0703	Peanut, whole	0.1		CXL-D	
FS	0012	Stone fruits	1		CXL-D	
165	**Flusilazole**					
GC	0640	Barley	0.1		CXL-D	
AS	0640	Barley straw and fodder, Dry	2		CXL-D	
MF	0812	Cattle fat	0.01	(*)	CXL-D	
MM	0812	Cattle meat	0.01	(*)	CXL-D	
ML	0812	Cattle milk	0.01	(*)	CXL-D	
PE	0840	Chicken eggs	0.01	(*)	CXL-D	
PM	0840	Chicken meat	0.01	(*)	CXL-D	
PO	0840	Chicken, Edible offal of	0.01	(*)	CXL-D	
GC	0650	Rye	0.1		CXL-D	
AS	0650	Rye straw and fodder, Dry	2		CXL-D	
GC	0654	Wheat	0.1		CXL-D	
AS	0654	Wheat straw and fodder, Dry	2		CXL-D	
168	**Triadimenol**					
GC	0640	Barley	0.5		CXL-D	
AS	0640	Barley straw and fodder, Dry	5		CXL-D	
VD	0524	Chick-pea (dry)	0.05	(*)	CXL-D	
AM	1051	Fodder beet	0.05	(*)	CXL-D	
DH	1100	Hops, Dry	5		CXL-D	
FI	0345	Mango	0.05	(*)	CXL-D	
AS	0647	Oat straw and fodder, Dry	5		CXL-D	
GC	0647	Oats	0.2		CXL-D	
VA	0389	Onion, Spring (green)	0.05	(*)	CXL-D	
VA	0387	Onion, Welsh	0.05	(*)	CXL-D	
VP	0063	Peas (pods and succulent=immature seeds)	0.1		CXL-D	
VO	0445	Peppers, Sweet	0.1		CXL-D	
FP	0009	Pome fruits	0.5		CXL-D	
FB	0272	Raspberries, Red, Black	0.5		CXL-D	
GC	0650	Rye	0.2		CXL-D	
AS	0650	Rye straw and fodder, Dry	5		CXL-D	
VO	0448	Tomato	0.5		CXL-D	

		Commodity	MRL (mg/kg)		Step	Note
GC	0654	Wheat	0.2		CXL-D	
AS	0654	Wheat straw and fodder, Dry	5		CXL-D	
169	**Cyromazine**					
VO	0051	Peppers	1		CXL-D	
MM	0822	Sheep meat	0.05	(*)	CXL-D	
VO	0448	Tomato	0.5		CXL-D	

APPENDIX VI

PROPOSED DRAFT AND DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Retained at Steps 7 and 4 respectively)

	Commodity		MRL (mg/kg)		Source	Step	Note
MRLs retained at Step 7							
90 Chlorpyrifos-Methyl							
GC	0640	Barley	10		Po	7	
GC	0647	Oats	10		Po	7	
GC	0649	Rice	10		Po	7	
95 Acephate							
VB	0042	Flowerhead brassicas	2			7	
FC	0003	Mandarins	7			7	
FS	0245	Nectarine	2			7	
FS	0247	Peach	2			7	
VO	0051	Peppers	5			7	
FP	0009	Pome fruits	7			7	
100 Methamidophos							
VB	0042	Flowerhead brassicas	0.5		Ac	7	This recommendation arises from the use of acephate.
FC	0003	Mandarins	0.5		Ac	7	Including mandarin-like hybrids. This recommendation arises from the use of acephate.
FS	0245	Nectarine	0.5		Ac	7	This recommendation arises from the use of acephate.
FS	0247	Peach	0.5		Ac	7	This recommendation arises from the use of acephate.
VO	0051	Peppers	2		Ac	7	This recommendation arises from the use of acephate.
FP	0009	Pome fruits	0.5		Ac	7	This recommendation arises from the use of acephate.
112 Phorate							
VR	0589	Potato	0.5			7	
142 Prochloraz							
VO	0450	Mushrooms	40			7	
193 Fenpyroximate							
FB	0269	Grapes	1			7	
194 Haloxyfop							
PE	0840	Chicken eggs	0.01	(*)		7	
PM	0840	Chicken meat	0.01	(*)		7	
PO	0840	Chicken, Edible offal of	0.05			7	
SO	0691	Cotton seed	0.2			7	
OC	0691	Cotton seed oil, Crude	0.5			7	
AM	1051	Fodder beet	0.3			7	
SO	0697	Peanut	0.05			7	
VP	0063	Peas (pods and succulent=immature seeds)	0.2			7	
VR	0589	Potato	0.1			7	
VD	0070	Pulses	0.2			7	
SO	0495	Rape seed	2			7	
OC	0495	Rape seed oil, Crude	5			7	

		Commodity	MRL (mg/kg)		Step	Note
OR	0495	Rapeseed oil, Edible	5		7	
CM	1206	Rice bran, Unprocessed	0.02	(*)	7	
CM	0649	Rice, Husked	0.02	(*)	7	
CM	1205	Rice, Polished	0.02	(*)	7	
OC	0541	Soya bean oil, Crude	0.2		7	
OR	0541	Soya bean oil, Refined	0.2		7	
VR	0596	Sugar beet	0.3		7	
SO	0702	Sunflower seed	0.2		7	
204 Esfenvalerate						
SO	0691	Cotton seed	0.05		7	
VO	0448	Tomato	0.1		7	
GC	0654	Wheat	0.05		7	
212 Metalaxyl-M						
FP	0226	Apple	0.02	(*)	7	
SB	0715	Cacao beans	0.02		7	
FB	0269	Grapes	1		7	
VL	0482	Lettuce, Head	0.5		7	
VA	0385	Onion, Bulb	0.03		7	
VO	0445	Peppers, Sweet	0.5		7	
VR	0589	Potato	0.02	(*)	7	
VL	0502	Spinach	0.1		7	
SO	0702	Sunflower seed	0.02	(*)	7	
VO	0448	Tomato	0.2		7	

MRLs retained at Step 4

194 Haloxyfop						
MO	1280	Cattle kidney	1		4	
MO	1281	Cattle liver	0.5		4	
MM	0812	Cattle meat	0.05		4	
ML	0812	Cattle milk	0.3		4	

APPENDIX VII

PROPOSED DRAFT AND DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Returned to Steps 6)

8 Carbaryl

		Commodity	MRL (mg/kg)	Source	Step	Note
FS	0013	Cherries	20		6	
FC	0001	Citrus fruits	15		6	
JF	0001	Citrus juice	0.5		6	
AB	0001	Citrus pulp, Dry	4		6	
DF	0269	Dried grapes (=currants, raisins and sultanas)	50		6	
JF	0269	Grape juice	30		6	
AB	0269	Grape pomace, Dry	80		6	
FB	0269	Grapes	40		6	
FS	0012	Stone fruits	10		6	Except cherries.

27 Dimethoate

VL	0482	Lettuce, Head	3		6	
VO	0445	Peppers, Sweet	5	Po	6	

94 Methomyl

VB	0040	Brassica vegetables	7		6	Resulting from consideration of methomyl+thiodicarb supervised field trial data.
VS	0624	Celery	3		6	Resulting from consideration of methomyl supervised field trial data.
VC	0045	Fruiting vegetables, cucurbits	0.1		6	Resulting from consideration of methomyl supervised field trial data.
FB	0269	Grapes	7		6	Resulting from consideration of methomyl supervised field trial data.
VL	0053	Leafy vegetables	30		6	Resulting from consideration of methomyl+thiodicarb supervised field trial data.

96 Carbofuran

VC	4199	Cantaloupe	0.2		6	
VC	0424	Cucumber	0.3		6	
FC	0206	Mandarin	0.5		6	Based on the use of carbosulfan.
FC	0004	Oranges, Sweet, Sour	0.5		6	
VR	0589	Potato	0.2		6	Based on the use of carbosulfan.
VC	0431	Squash,summer	0.3		6	
VO	0447	Sweet corn (corn-on-the-cob)	0.1		6	

126 Oxamyl

FC	0001	Citrus fruits	3		6	
VC	0424	Cucumber	1		6	
VC	0046	Melons, except watermelon	1		6	
VO	0051	Peppers	5		6	

145 Carbosulfan

FC	0206	Mandarin	0.1		6	
FC	0004	Oranges, Sweet, Sour	0.1		6	
VR	0589	Potato	0.05		6	

APPENDIX VIII

DRAFTS CODEX MAXIMUM RESIDUE LIMITS FOR PESTICIDES WITHDRAWN

	Commodity		MRL			Step
32	**Endosulfan**					
VB	0400	Broccoli	3			W
VS	0624	Celery	7			W
FS	0013	Cherries	2			W
VO	0448	Tomato	1			W
37	**Fenitrothion**					
GC	0080	Cereal grains	10		Po	W
MO	0105	Edible offal (mammalian)	0.05	(*)		W
PE	0112	Eggs	0.05	(*)		W
MM	0095	Meat (from mammals other than marine mammals)	0.05	(*)		W
ML	0106	Milks	0.01			W
PM	0110	Poultry meat	0.05	(*)		W
CM	1206	Rice bran, Unprocessed	60		PoP	W
CM	0654	Wheat bran, Unprocessed	30		PoP	W
39	**Fenthion**					
FC	0003	Mandarins	0.5			W
OC	0305	Olive oil, Virgin	3			W
FC	0004	Oranges, Sweet, Sour	0.5			W
49	**Malathion**					
AL	1020	Alfalfa fodder	200			W
AL	1031	Clover hay or fodder	150			W
AS	0162	Hay or fodder(dry)of grasses	300			W
AS	0645	Maize fodder (dry)	50			W
AS	0654	Wheat straw and fodder, Dry	50			W
65	**Thiabendazole**					
FC	0001	Citrus fruits	5		Po	W
94	**Methomyl**					
FP	0226	Apple	2			W
103	**Phosmet**					
FS	0240	Apricot	10			W
FB	0020	Blueberries	15			W
FC	0001	Citrus fruits	3			W
FS	0245	Nectarine	10			W
FP	0009	Pome fruits	10			W
160	**Propiconazole**					
AL	1265	Soya bean forage	2			W
166	**Oxydemeton-Methyl**					
FP	0226	Apple	0.05			W
VB	0041	Cabbages, Head	0.05	(*)		W
FB	0269	Grapes	0.1			W
FC	0004	Oranges, Sweet, Sour	0.2			W
169	**Cyromazine**					
VB	0041	Cabbages, Head	10			W

		Commodity	MRL (mg/kg)		Step	Note
VL	0502	Spinach	10		W	
222	**Quinoxyfen**					
MM	0095	Meat (from mammals other than marine mammals)	0.02	(fat)	W	
226	**Pyrimethanil**					
AB	0001	Citrus pulp, Dry	3		W	

MRLs FOR SPICES	MRLs		Step
53 Mevinphos			
Spices, grains	5		W
Spices, fruits and berries	0.2	(*)	W
Spices, roots and rhizomes	1		W

APPENDIX IX

CODEX COMMITTEE ON PESTICIDE RESIDUES: PROJECT DOCUMENT

Proposal for new work on the revision and extension of the guidance document on Measurement Uncertainty for pesticide multi residue methods, based on Guidelines on estimation of Uncertainty of Results (CAC/GL 59-2006), previously adopted by the Codex Alimentarius Commission

Purpose and scope of the guidelines

The purpose of this new work is to enable Codex Member Countries to have available to them additional and practically oriented information on the estimation of Measurement Uncertainty for the results of pesticide single and multi residue methods. In addition, the existing Guidelines itself is to be revised as necessary.

Relevance and timeliness

The Codex Alimentarius Commission adopted Guidelines on Measurement Uncertainty in 2006. The existing Guideline lay down general information on the estimation and application of Measurement Uncertainty.

Some Codex Members have expressed concern over the complexity of the Measurement Uncertainty and have requested practical guidance on the subject, particularly the estimation of Measurement Uncertainty of pesticide residue measurements.

This new work would be of direct relevance to the application of the existing Codex Guidelines. It is also of direct relevance of the ongoing discussions across Codex in this area and also the discussions that have taken place and which are ongoing with respect to Measurement Uncertainty and its use in compliance.

Main aspects to be covered

The project is to give further elaborated practical examples and advice on how to apply top-down approaches for the estimation of measurement uncertainty based on laboratory quality data. In addition the opportunity will be taken to update the existing Guidelines in the light of recent international references etc.

The revised version will:

Help laboratories to estimate Measurement Uncertainty values, single or multiple residue methods, particularly in pesticide multi residue methods, utilizing internal and external data, such as:

- Concentration-dependent RSDs according to Horwitz formulas and related, serving as the basis for expected / target RSDs.
- Average recovery values and associated standard deviations derived from method validation data.
- Laboratory repeatability and reproducibility data obtained from quality control charts and method validation.
- Method bias information obtained from the analysis of (certified) reference materials.
- Comparison of results obtained by in-house and authoritative referee methods, respectively.
- Utilization of the outcomes of PT schemes, including approximations such as a generalized MU budget of ±50%, for instance, EC PT schemes, if applicable.

Assessment against the Criteria for the establishment of work priorities

This proposal is consistent with the Criteria for the Establishment of work priorities. The proposed guidelines will facilitate fair trade practices and ensure the safe use of foods.

In addition, the following criteria are also relevant:

- Diversification of national legislations and apparent resultant or potential impediments to international trade: The proposed extension of the existing Measurement Uncertainty guidelines will facilitate the use of nationally and internationally approved analytical methods. This might reduce the possible obstacles in international trade and ensure the safe use of foods.

Relevance to the Codex Strategic Objectives

Objective/Goal 1 Promoting Sound Regulatory Frameworks

The proposal to revise and extend the existing guidelines is perfectly in line with objectives 1.2 Review and develop Codex standards and related text for food quality and 1.4 Review and develop Codex standards and related texts for food inspection and certification, and methods of sampling and analysis.

The proposed work has also to be considered according to Objective/Goal 4.1 Promoting cooperation between Codex and other relevant international organizations.

Information on the relation between the proposal and other existing Codex documents

This proposal is a revision of the current guideline Guidelines on measurement of Uncertainty of Results (CAC/GL 59-2006). Recommendations on measurement uncertainty are also included in the Guidelines on Measurement Uncertainty (CAC/GL 54-2004) and in the procedural manual (The Use of Analytical Results, Sampling plans, Relationship between the Analytical Results, the Measurement Uncertainty, Recovery Factors and Provisions in the Codex Standards – inclusion of specific provisions in Codex texts).

Identification of any requirement for and availability of expert advice

A Working Group under leadership of IAEA has already produced a discussion paper which was also discussed in greater detail by the CCPR Working Group, setting out aspects that could be included in the revised guideline. These were supported in principle at the 40th Session of the Codex Committee on Pesticide Residues. No further expert advice is expected to be needed.

Identification of any need for Technical Input to the Guidelines from external Bodies that can be planned for

None identified.

Proposed timeline for completion of the new work, including the start date, the Proposed Date for adoption at Step 5, and the proposed date for adoption by the Commission

Formal draft explanatory guidelines will be considered by the 41st session of CCPR. The proposed guidelines are expected to be adopted at step 5 by the CAC in 2011 and finally adopted in 2012.

APPENDIX X

PRIORITY LIST OF CHEMICALS SCHEDULED FOR EVALUATION AND RE-EVALUATION BY JMPR

The following are the tentative schedules to be evaluated by the FAO/WHO Joint Meeting on Pesticides Residues from 2008 to 2015.

2008 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
azoxystrobin	Azoxystrobin
chlorantraniliprole	Chlorantraniliprole
mandipropamid	Mandipropamid
prothioconazole	Prothioconazole
spinetoram	Spinetoram
spirotetramate	Spirotetramate
Periodic re-evaluations	**Periodic re-evaluations**
buprofezin (173)	buprofezin (173)
hexythiazox (176)	lambda-cyhalothrin replacement of cyhalothrin
	cypermethrins (118)
	profenofos (171)
Evaluations	**Evaluations**
carbofuran (096) – review of ARfD (new US data available)	bifenazate (219) - manufacturer to provide additional information on MRLs for citrus fruit, egg plant, tea, water melon
oxamyl (126) – clarification of ARfD (concern of EC)	boscalid (221) - tentative listing for additional MRLs – hops and kiwifruit, bananas (alternative GAP)
	chlorpropham (201) - whole milk and milk fat MRL evaluation
	carbaryl (008)- retrospective alternative GAPs for cherries
	dimethoate(027) –retrospective alternative GAPs: cabbages, head; lettuce, head; peppers sweet
	diphenylamine (30)- whole milk and milk fat MRL evaluation
	imidacloprid (206) – additional MRLs for avocado, banana, blueberry, cranberry, carrot, coffee, pea, peanut, pomegranate, strawberry, sugar apple, sunflower, tree nuts
	methomyl (094) – retrospective alternative GAPs for cucumber, pear, melons, tomato, grapes and zucchini.
	oxamyl (126) – to evaluate retrospective alternative GAPs for citrus fruits, cucumber, melon (except watermelon), pepper and tomato.
	spinosad (203) – additional MRLs for banana, cranberry, hops.
	malathion (49) – wheat (post-harvest)
	ethoxyquin (35) -pears
	tebuconazole (189) - Citrus fruit, pome fruit, plum, elderberry, mango, papaya, leek, onion, garlic, head cabbage, brussel sprouts, broccoli, melon, watermelon, tomato, lettuce, bean, soya, carrot, artichoke, celery, barley, rice, maize, rape, coffee, hops, peanut

2009 JMPR

Toxicological evaluations	Residue Evaluations
New Compounds	**New Compounds**
fluopicolide	fluopicolide
spirodiclofen	spirodiclofen
metaflumizone	metaflumizone
Periodic re-evaluations	**Periodic re-evaluations**
bifenthrin (178)	benalaxyl (155)
cadusafos (174)	haloxyfop (194)
chlorothalanil (081)	chlorpyrifos-methyl (090)
chlorpyrifos-methyl (090)	hexythiazox (176)
cycloxydim (179)	procymidone (136)
Evaluations	**Evaluations**
Flusilazole (165) – clarification of ARfD (EC concern)	fenbuconazole (197) – re-evaluation of the pome fruits CXL; additional CXLs for almonds, blueberries, citrus, cranberries, plums and prunes
Procymidone (136) – review of ARfD (EC concern, based on new data)	indoxacarb (216) – additional MRLs for stone fruit (peach, plum, cherry, nectarine), vegetables cucurbits, cranberry, southern pea and mint.
	methoxyfenozide (209) – additional MRLs for bean, blueberry, citrus, cucurbits, papaya, pea, peanut, root crops, strawberry, sweet potato
	paraquat (57) – rice
	phorate (112) – acute intake for potatoes
	prochloraz (142) – acute intake for mushroom (alternative GAP)
	spices – additional MRLs
	zoxamide (227) – cucurbits (based on new USA GAP)
	Fenthion (39) – review of alternative GAPs (citrus fruit and olive)
	Triadimefon / triadimenol (133/168) – alternative GAP (grapes)
	carbofuran (096) - additional residue and metabolism data, updated dietary risk assessment

2010 JMPR

Toxicological evaluations	Residue Evaluations
New Compounds	**New Compounds**
dicamba	dicamba
clopyralid	clopyralid
meptyldinocap	meptyldinocap
etoxazole	etoxazole
Periodic re-evaluations	**Periodic re-evaluations**
dicofol (026)	amitraz (122)
dithianon (028)	azinphos-methyl (002)
fenbutatin oxide (109)	bifenthrin (178)
vinclozolin (159) – support from USA	cadusafos (174)
Tebuconazole (189)	chlorothalanil (081)
	cycloxydim (179)
	vinclozolin (159) – support from USA

Evaluations	**Evaluations**
	fenpyroximate (193) – re-evaluate data for grapes following JMPR recommended new ARfD.
	Difenoconazole (224) - review of alternative GAP (banana,– higher MRL (china); additional MRLs (green beans, passion fruit)
	Triazophos （143）- residue evaluation in edible portion (soybean – immature seeds, Thailand); cereals incl. rice (China)
	Endosulfan (32) - tea green / black (China)

2011 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
Periodic re-evaluations	**Periodic re-evaluations**
dichlorvos (025)	dicofol (026)
diquat (031)	dithianon (028)
etofenprox (184)	fenbutatin oxide (109)
fenpropathrin (185) maybe earlier pending data availability	Tebuconazole (189)
glufosinate-ammonium (175)	
Evaluations	**Evaluations**
	Cyfluthrin (157) - soybean

2012 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
Periodic re-evaluations	**Periodic re-evaluations**
triforine (116)	triforine (116)
bentazone (172)	dichlorvos (025)
dinocap (87) - no longer supported	diquat (031)
dichlofluanid (82) – not supported by the manufacturer	etofenprox (184)
disulfoton (74) – support from USA	fenpropathrin (185)
fenvalerate (119) – support from USA	glufosinate-ammonium (175)
metalaxyl (138) – support from USA	
tecnazene (115)	
aldicarb (117)	
Evaluations	**Evaluations**

2013 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
Periodic re-evaluations	**Periodic re-evaluations**
bromopropylate (70)	bentazone (172)
bromide ion (47)	dinocap (87)
diazinon (22)	disulfoton (74) – support from USA
hydrogen phosphide (46)	dichlofluanid (82) – not supported by the manufacturer
	fenvalerate (119) – support from USA
	metalaxyl (138) – support from USA – supervised trials (Thailand)

	tecnazene (115)
	aldicarb (117)
Evaluations	**Evaluations**

2014 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
Periodic re-evaluations	**Periodic re-evaluations**
abamectin (177)	bromopropylate (70)
myclobutanil (181)	bromide ion (47)
methidathion (51)	diazinon (22)
penconazole (182)	hydrogen phosphide (46)
Evaluations	**Evaluations**

2015 JMPR

Toxicological evaluations	**Residue Evaluations**
New Compounds	**New Compounds**
Periodic re-evaluations	**Periodic re-evaluations**
	abamectin (177)
	methidathion (51)
	myclobutanil (181)
	penconazole (182)
Evaluations	**Evaluations**