

# CODEX ALIMENTARIUS COMMISSION



**Food and Agriculture  
Organization of  
the United Nations**



**World Health  
Organization**

**E**

Viale delle Terme di Caracalla, 00153 Rome, Italy - Tel: (+39) 06 57051 - Fax: (+39) 06 5705 4593 - E-mail: [codex@fao.org](mailto:codex@fao.org) - [www.codexalimentarius.org](http://www.codexalimentarius.org)

**REP13/PR**

## **JOINT FAO/WHO FOOD STANDARDS PROGRAMME**

### **CODEX ALIMENTARIUS COMMISSION**

**36<sup>th</sup> Session  
Rome, Italy, 1 – 5 July 2013**

### **REPORT OF THE 45<sup>th</sup> SESSION OF THE CODEX COMMITTEE ON PESTICIDE RESIDUES**

**Beijing, China, 6 - 11 May 2013**

**Note:** This report includes Codex Circular Letter CL 2013/14-PR.

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**To:** - Codex Contact Points  
- Interested International Organizations

**From:** Secretariat,  
Codex Alimentarius Commission,  
Joint FAO/WHO Food Standards Programme,  
E-mail: [codex@fao.org](mailto:codex@fao.org),  
Fax: +39 06 57053057  
Viale delle Terme di Caracalla,  
00153 Rome, Italy

**SUBJECT: DISTRIBUTION OF THE REPORT OF THE 45<sup>TH</sup> SESSION OF THE CODEX COMMITTEE ON PESTICIDE RESIDUES (REP13/PR)**

The report of the 45<sup>th</sup> Session of the Codex Committee on Pesticide Residues will be considered by the 36<sup>th</sup> Session of the Codex Alimentarius Commission (Rome, Italy, 1 – 5 July 2013).

**PART A: MATTERS FOR ADOPTION BY THE 36<sup>TH</sup> SESSION OF THE CODEX ALIMENTARIUS COMMISSION:**

1. **Draft maximum residue limits for pesticides at Step 8** (paras. 17 – 90, Appendix II);
2. **Proposed draft maximum residue limits for pesticides at Step 5/8 (with omission of Steps 6/7)** (paras. 17 – 90, Appendix III).

Governments and international organizations wishing to submit comments on the above draft and proposed draft MRLs, should do so in writing, in conformity with the *Procedure for the Elaboration of Codex Standards and Related Texts* (Part 3 – *Uniform Procedure for the Elaboration of Codex Standards and Related Texts*, Procedural Manual of the Codex Alimentarius Commission), **preferably by email**, to the above address **before 15 June 2013**.

3. **Proposed draft revision to the *Classification of Food and Feed* at Step 5 – selected vegetable commodity groups (roots and tubers)** (para. 123, Appendix XI).

Governments and international organizations wishing to submit comments on the above matters, should do so in writing, in conformity with the *Procedure for the Elaboration of Codex Standards and Related Texts* (Part 3 – *Uniform Procedure for the Elaboration of Codex Standards and Related Texts*, Procedural Manual of the Codex Alimentarius Commission), **preferably by email**, to the above address **before 15 June 2013**.

**PART B: OTHER MATTERS FOR ACTION BY THE 36<sup>TH</sup> SESSION OF THE CODEX ALIMENTARIUS COMMISSION**

4. **Maximum residue limits for pesticides recommended for revocation** (paras. 17 – 90, Appendix IV).
5. **Principles and guidance for application of the proportionality concept for estimation of maximum residue limits for pesticides** (for inclusion in the Procedural Manual as an Annex to the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues*) (para. 98, Appendix VIII).
6. **Consequential amendments to maximum residue limits for pesticides for fruit commodity groups due to revision of the *Classification of Food and Feed* as per these commodity groups** (paras. 109-110, Appendix IX).

Governments and international organizations wishing to submit comments on the proposed revocations of Codex MRLs should do so in writing, **preferably by email**, to the above address **before 15 June 2013**.

**PART C: REQUEST FOR COMMENTS AND INFORMATION ON:****7. Matters related to the 2013 JMPR including concern forms (paras. 17 - 90).**

Those countries and observers specified under individual compounds concerning matters related to the 2013 JMPR (e.g. GAP, residue evaluation, intake assessment, etc.) on specific pesticide/commodity(ies) to be considered by 2013 JMPR, including submission of concern forms together with necessary data, 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](mailto:YoungZhen.Yang@fao.org); **2)** Dr Philippe VERGER, WHO JMPR Secretary, Appia Avenue 20, 1211 Geneva 27, Switzerland, Fax: +41 22 791 4807, E-mail: [vergerp@who.int](mailto:vergerp@who.int); **3)** Dr Xiongwu QIAO, Shanxi Academy of Agricultural Sciences, 2 Changfeng Street, Taiyuan, Shanxi Province, 030006, P.R. China, Fax: +86 351 7126215, E-mail: [ccpr\\_qiao@agri.gov.cn](mailto:ccpr_qiao@agri.gov.cn), [ccpr@agri.gov.cn](mailto:ccpr@agri.gov.cn); and **4)** Secretariat, 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](mailto:codex@fao.org)) **before 30 June 2013**.

Those countries and observers specified under individual compounds in REP13/PR, Appendix XII concerning matters related to the future JMPR meetings (GAPs, 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 45<sup>th</sup> Session of the Codex Committee on Pesticide Residues reached the following conclusions:

### MATTERS FOR ADOPTION BY THE 36<sup>TH</sup> SESSION OF THE COMMISSION

#### Draft and proposed draft MRLs for pesticides

- Draft and proposed draft MRLs for pesticide at Steps 8 and 5/8 with omission of Steps 6/7 (paras. 17 – 90, Appendices II and III);
- Draft revision to the Classification of Food and Feed at Step 5 (selected vegetable commodity groups – roots and tubers) at Step 5 (para. 123, Appendix XI).

#### Other matters for adoption

- Principles and guidance for application of the proportionality concept for estimation of MRLs (for inclusion in the Procedural Manual as an Annex to the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues*) (para. 98, Appendix VIII);
- Consequential amendments to maximum residue limits for pesticides for fruit commodity groups due to the revision of the Classification of Food and Feed as per these commodity groups (paras. 109-110, Appendix IX).

#### Revocation of MRLs for pesticides

- Revocation of MRLs for pesticides (paras 17 – 90, Appendix IV).

#### Approval of new work

- Priority List for the Establishment of MRLs for Pesticides (para. 161, Appendix XIV).
- Guidance on performance criteria specific for methods of analysis for the determination of pesticide residues (para. 140, Appendix XII).

### MATTERS OF INTEREST TO THE COMMISSION

The Committee:

- noted matters arising from the 2012 JMPR including replies to specific concerns raised by the last session of the Committee (paras. 17 - 90);
- agreed to retain several draft and proposed draft MRLs for pesticides at Steps 7 and 4 awaiting for JMPR evaluations (paras. 17 – 90, Appendices V and VI);
- agreed to withdraw several draft and proposed draft MRLs for pesticides in view of the advancement of corresponding MRLs to Steps 8 and 5/8 (paras. 17-90, Appendix VII);
- agreed on the completion of the pilot project for JMPR recommendation of MRLs before national governments or other regional registration authorities for a global joint review chemical by advancing several proposed draft MRLs for the new chemical sulfoxaflor to the Commission for final adoption; retained a few proposed MRLs for further evaluation by JMPR; and did not identify any follow-up actions (paras. 75-80, 170, 175-176, 182, Appendix III);
- agreed to hold selected vegetable commodity groups on “brassica (cole or cabbage vegetables, head and flowerhead heads”; “leafy vegetables (including brassical leafy vegetables)”; and “stalk and stem vegetables” at Step 7 pending finalization of the *Classification of Food and Feed* in relation to the vegetable commodity groups (para. 118, Appendix X);
- agreed to continue working on the revision of the *Classification of Food and Feed* through the identification of other vegetable commodity groups (para.124);
- agreed to continue to work on examples of selection of representative commodities for vegetable and other commodity groups in parallel with the revision of the *Classification of Food and Feed* for inclusion in the *Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups* (paras. 131-132);
- agreed to continue work on criteria for use by CCPR and JMPR to determine the minimum number of field trials necessary to support the establishment of MRLs for minor crops / specialty crops in order to facilitate data submission to JMPR and other related issues (para. 136);
- continue the revision of the *Risk Analysis Principles applied by the Codex Committee on Pesticide Residues* with a view to their finalization by the next session of the Committee (paras. 149-150, Appendix XIII);
- noted that there was not enough support to consider new avenues to assist CCPR in the establishment of MRLs for new active compounds and agreed not to pursue the matter at this point in time (para. 182);

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**LIST OF ABBREVIATIONS**

(Used in this Report)

|               |  |
|---------------|--|
| ADI           | Acceptable Daily Intake  |
| ALARA         | As low as reasonably possible  |
| ARfD          | Acute Reference Dose   |
| CAC           | Codex Alimentarius Commission  |
| CCPR          | Codex Committee on Pesticide Residues  |
| CCRVDF        | Codex Committee on Residues of Veterinary Drugs in Foods   |
| CLI           | CropLife International   |
| CRD           | Conference Room Document   |
| CXL           | Codex Maximum Residue Limit for Pesticide  |
| DIE           | Daily Intake Estimate  |
| EFSA          | European Food Safety Authority   |
| EMRL          | Extraneous Maximum Residue Limit   |
| EU            | European Union   |
| EWG           | Electronic Working Group   |
| FAO           | Food and Agricultural Organization of the United Nations   |
| GAP           | Good Agricultural Practice (in the use of pesticides)  |
| GEMS/Food     | Global Environment Monitoring System - Food Contamination Monitoring and Assessment Programme                              |
| GMUS-2        | Second Global Minor Use Summit   |
| HR            | Highest residue in edible portion of a commodity found in trials used to estimate a maximum residue level in the commodity |
| IAEA          | International Atomic Energy Agency   |
| ICGCC         | International Crop Grouping Consulting Committee   |
| IESTI         | International Estimated of Short-Term Intake   |
| JECFA         | Joint FAO/WHO Expert Committee on Food Additives   |
| JMPR          | Joint FAO/WHO Meeting on Pesticide Residues  |
| MRL           | Maximum Residue Limit  |
| OECD          | Organization for Economic Co-operation and Development   |
| PWG           | Physical Working Group   |
| SPS Agreement | Agreement on the Application of Sanitary and Phytosanitary Measures  |
| STDF          | Standards and Trade Development Facility   |
| TDI           | Tolerable Daily Intake   |
| USA           | United States of America   |
| WG            | Working group  |
| WHO           | World Health Organization  |
| WTO           | World Trade Organization   |



## INTRODUCTION

1. The Codex Committee on Pesticide Residues (CCPR) held its 45<sup>th</sup> Session in Beijing, China, from 6 to 11 May 2013 at the kind invitation of the Government of China. Professor Xiongwu Qiao, Vice-Director of the Shanxi Academy of Agricultural Sciences chaired the Session, assisted by Dr Zhang Hongjun, Director of CCPR Secretariat, Institute for Control of Agrochemicals, Ministry of Agriculture. The list of participants is attached as Appendix I.

## OPENING OF THE SESSION

2. The Session was opened by Mr Yu Xinrong, Vice Minister of Agriculture of the People's Republic of China. He highly commended the great contribution of the Codex Alimentarius Commission in protecting human health and maintaining the fairness of global agricultural trade and expressed the strong willingness of the Chinese Government to work closely with Codex, with a view to jointly promoting agricultural trade and building a food safety standard system in a globally coordinated manner. He also highlighted some measures taken by the Chinese Government in recent years in the field of agriculture production and food safety, in particular the enacting and implementation of the National Food Safety Standards – Maximum Residue Limits of Pesticides in Food (GB2763-2012).

3. The Chair of CCPR, Dr Qiao Xiongwu thanked the Government of China as well as Members and observers for their support to the work of CCPR.

## Division of Competence<sup>1</sup>

4. The Committee noted the division of competence between the EU and its Member States, according to paragraph 5, Rule II of the Procedure of the Codex Alimentarius Commission.

## ADOPTION OF THE AGENDA (Agenda Item 1)<sup>2</sup>

5. The Committee agreed to consider the evaluation of new options supporting a timely advancement of Codex MRLs for new compounds proposed by CropLife International under Agenda Item 12 and adopted the Provisional Agenda with the amendment as its Agenda for the Session.

## In-session working groups

6. The Committee agreed to establish the following in-session Working Groups on:

- Guidance to facilitate the establishment of maximum residue limits for pesticides for minor crops / specialty crops chaired by France and co-chaired by Kenya and Thailand (Agenda Item 8);
- Performance criteria for suitability assessment of methods of analysis for pesticide residues chaired by the United States of America (Agenda Item 9); and
- Risk Analysis Principles applied by the Codex Committee on Pesticide Residues chaired by Argentina and co-chaired by Costa Rica and the United States of America (Agenda Item 10).

## APPOINTMENT OF RAPORTEURS (Agenda Item 2)

7. The Committee appointed Mr David Lunn (New Zealand) and Mr Kevin Bodnaruk (Australia) to act as rapporteurs.

## MATTERS REFERRED TO THE COMMITTEE BY THE CODEX ALIMENTARIUS COMMISSION AND OTHER SUBSIDIARY BODIES (Agenda Item 3)<sup>3</sup>

8. The Committee noted that matters arising from the Codex Alimentarius Commission and other subsidiary bodies were for information only.

## MATTERS OF INTEREST ARISING FROM FAO AND WHO (Agenda Item 4a)<sup>4</sup>

9. The Representative of FAO explained their activities on enhancing the capacity of developing countries in participation and implementation of Codex MRLs, including the revision and publication of the "FAO Training Manual on the Evaluation of Pesticide Residues for Maximum Residue Levels", requests for providing scientific advice as well as the conclusions and recommendations of the Global Minor Use Summit 2<sup>5</sup>.

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1 CRD 2.

2 CX/PR 13/45/1.

3 CX/PR 13/45/2.

4 CX/PR 13/45/3; CRD 17 (comments of China); CRD 19 (comments of Colombia).

5 [http://www.fao.org/fileadmin/templates/agphome/documents/Pests\\_Pesticides/JMP/2GMUSrep.pdf](http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMP/2GMUSrep.pdf)

**MATTERS OF INTEREST ARISING FROM OTHER INTERNATIONAL ORGANIZATIONS (Agenda Item 4b)<sup>6</sup>**

10. The Representative of IAEA highlighted the activities of the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture to improve food safety, protect consumer health and facilitate international agricultural trade by providing assistance in diverse areas through Coordinated Research Projects (CRPs) and Technical Cooperation Projects (TCPs), which focused on agrochemicals and food contaminants such as pesticides and veterinary drugs. The Representative also introduced a new initiative that targeted intraregional laboratory networks through technical cooperation and extra-budgetary support such as the IAEA Peaceful Uses Initiative. He further noted that the Joint Division published analytical methods through a database on food contaminants including pesticides to support residue monitoring plans, especially in developing countries.

**REPORT ON ITEMS OF GENERAL CONSIDERATION BY THE 2012 JMPR (Agenda Item 5a)<sup>7</sup>**

11. The Committee noted the information contained in Section 2 of the 2012 JMPR. In particular, the following comments and remarks were noted:

**2.2 Update of the GEMS/Food diets**

12. The WHO JMPR Secretariat noted the comment made by the EU about the need for collecting individual food consumption data. In regard to the JECFA's request on veterinary drugs (September 2010), WHO in collaboration with FAO launched a call in 2011 to collect individual food consumption data to assess chronic exposure. Individual food consumption data were submitted from 23 countries including EU Member States for which such data were available. A database was created and could be used by FAO and WHO experts. These data were available on request for Codex members.

**2.7 Assessment of compounds with very low toxicity**

13. The WHO JMPR Secretariat also noted the suggestion of the EU on establishing a quantitative ADI even in the absence of effects at the highest dose tested. The JMPR Secretariat would report to the next JMPR but mentioned that the international rule when no effects were observed at the highest dose tested were to establish an ADI not specified.

**2.8 Update of the automated spreadsheet applications for the calculation of short-term dietary intake: New large portion data**

14. The FAO JMPR Secretariat informed the Committee that the automated spreadsheet for the age (14-50 yrs), and children of 6 years and under, the highest large portion (based on g/kg bw/d) for each commodity from all population groups had been used in the IESTI spreadsheet. The 2012 JMPR considered the large portion dataset robust. The spreadsheet applications would be available on the WHO website<sup>8</sup>.

**2.9 Further consideration for using the proportionality approach**

15. The FAO JMPR Secretariat also informed the Committee that, as requested by the 44<sup>th</sup> session of CCPR, examples and detailed explanations were given by the 2012 JMPR in using the proportionality approach in evaluation of residue data for several compounds. In addition to specific considerations related to individual compounds, JMPR noted further aspects for applying the proportionality principle. Since a separate item on the use of proportionality had been scheduled on the agenda, the Committee agreed to discuss this issue later on Agenda Item 6b.

**REPORT ON 2012 JMPR RESPONSES TO SPECIFIC CONCERNS RAISED BY CCPR (Agenda Item 5b)<sup>9</sup>**

16. The Committee noted that specific concerns raised by CCPR would be addressed when discussing the relevant compounds under Agenda Item 6a.

**DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES IN FOOD AND FEED AT STEPS 7 AND 4 (Agenda Item 6a)<sup>10</sup>****GENERAL REMARKS**

17. The Delegation of EU advised the Committee that they would be introducing reservations for a number of proposed draft MRLs during the discussions on the individual compounds and that the reason for these reservation were outlined in CRD 11. The Delegation of the EU further noted that it was the current EU policy to align EU MRLs with Codex MRLs (CXLs) in cases where no reservation were made.

18. The Committee agreed that these reservations, where relevant, would be noted on the report.

<sup>6</sup> CX/PR 13/45/4; CRD 17 (comments of China).

<sup>7</sup> Section 2 of the 2012 JMPR Report ([http://www.fao.org/fileadmin/templates/agphome/documents/Pests\\_Pesticides/JMPR/Report12/JMPR\\_2012\\_Report.pdf](http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMPR/Report12/JMPR_2012_Report.pdf)); CRD 11 (comments of EU); CRD 17 (comments of China).

<sup>8</sup> [http://www.who.int/foodsafety/chem/acute\\_data/en/index1.html](http://www.who.int/foodsafety/chem/acute_data/en/index1.html)

<sup>9</sup> Section 3 of the 2012 JMPR Report ([http://www.fao.org/fileadmin/templates/agphome/documents/Pests\\_Pesticides/JMPR/Report12/JMPR\\_2012\\_Report.pdf](http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMPR/Report12/JMPR_2012_Report.pdf)); CRD 11 (comments of EU); CRD 17 (comments of China).

<sup>10</sup> CX/PR 13/45/5; CX/PR 13/45/5-Add.1 (comments of Australia, Canada, Peru); CRD 3 (comments of Republic of Korea); CRD 10 (comments of Morocco); CRD 11 (comments of EU); CRD 13 (comments of Thailand); CRD 17 (comments of China); CRD 20 (comments of Honduras).

**DICHLORVOS (025)**

19. The Committee agreed to advance all the proposed draft MRLs to Step 5/8, with the subsequent revocation of the associated CXLs, noting the reservations of the Delegations of the EU and Norway on the proposed draft MRLs for eggs; poultry, edible offal of; poultry fats; poultry meat; rice and wheat.

**DICOFOL (026)**

20. The Committee decided to revoke the CXLs for beans (dry); cattle, edible offal of; cattle meat; cherries; citrus fruits; common bean; cotton seed; cotton seed oil, crude; cotton seed oil, edible; cucumber; eggs; grapes; hops, dry; melons, except watermelon; milks; peach; pecan; peppers; peppers chill, dried; plums; poultry, edible offal of; poultry meat; prunes; squash, summer and walnuts.

21. The Committee agreed to advance the proposed draft MRL for tea, green, black to Step 5/8, with the subsequent revocation of the associated CXLs, noting the reservation of the EU and Norway Delegations.

22. With respect to their concern on the possible generation of chloroform in tea infusions, the JMPR Secretariat advised the Committee that the WHO set a TDI of 0.015 mg/kg bw for chloroform (CICAD 58, WHO 2004), and that if all the dichlorvos in tea were converted to chloroform the intake of chloroform would be minor compared to the TDI. Therefore, potential residues of chloroform were not of concern.

**CHLOROTHALONIL (081)**

23. The Committee decided to advance the proposed draft MRLs for banana and chard for adoption at Step 5/8, with the subsequent revocation of the associated CXL for banana, noting the reservations from the Delegations of the EU and Norway with respect to the proposed draft MRLs for both these commodities, because of their concern on the SDS-3701 metabolite.

24. The JMPR Secretariat advised the Committee that the metabolite SDS-3701 was found at negligible levels following direct crop treatments. The short-term exposure to SDS-3701 would be negligible as well.

**CHLORPYRIFOS-METHYL (090)**

25. The Committee agreed to maintain the draft MRLs at Step 7, waiting for the 2013 JMPR alternative GAP evaluation.

**CARBOFURAN (096)**

26. The Committee decided to advance the proposed draft MRL for banana to Step 5/8, with the subsequent revocation of the associated CXL.

**PHORATE (112)**

27. The Committee agreed to advance the proposed draft MRL for potato to Step 5/8, with the subsequent revocation of the associated CXL, and to withdraw the previous recommendation held at Step 7, noting the reservations of the Delegations of the EU and Norway.

28. With respect to the EU concern about the possible presence of formaldehyde as a degradation product, the JMPR Secretariat advised the Committee that the WHO set a TDI of 0.15 mg/kg bw for formaldehyde (ICPS no. 57). If all the phorate in potatoes were converted to formaldehyde the intake of formaldehyde was minor compared to the TDI. Potential residues of formaldehyde were not of concern.

**FENVALERATE (119)**

29. The Committee agreed to revoke all existing CXLs except those for spices, fruits and berries; spices, roots and rhizomes and also those for edible offal (mammalian); meat and milks (to support the use of esfenvalerate on animal feed commodities).

30. The Committee decided to advance the proposed draft MRL for mango to Step 5/8.

31. The Committee also decided to advance the proposed draft MRL for Chinese broccoli to Step 5/8, noting the reservation of the Delegations of the EU and Norway. The Committee was informed by the Delegation of Thailand, that Chinese broccoli (Chinese kale) was a leafy brassica, not a flowerhead brassica, and agreed to make the appropriate correction to the commodity code for the leafy vegetable at a later stage.

**OXAMYL (126)**

32. The Committee agreed to hold all draft MRLs at Step 7, pending the JMPR periodic re-evaluation in 2017 when it might be possible to review the current residue definition.

**DIFLUBENZURON (130)**

33. The Committee decided to advance all draft MRLs to Step 8.

34. The Committee noted that the Delegation of the EU had submitted a concern form after the 44<sup>th</sup> CCPR but that the relevant supporting data were not yet available. The Committee noted that if the EU assessment indicated a public health concern, diflubenzuron could be introduced into the priority list for further consideration by JMPR. The Committee noted the reservation of the Delegations of the EU and Norway in this regard.

#### **CYFLUTHRIN/BETA-CYFLUTHRIN (157)**

35. The Committee decided to advance all proposed draft MRLs to Step 5/8, with the subsequent revocation of the associated CXLs and withdrawal of draft MRLs.

#### **CYROMAZINE (169)**

36. The Committee decided to advance the proposed draft MRLs for chick-pea (dry); lentil (dry); and lupin (dry) to Step 5/8, noting the reservations of the Delegation of the EU and Norway on these proposed draft MRLs. Regarding the EU concern over the metabolite melamine the JMPR Secretariat indicated that according to the periodic review in the 2007 JMPR, cyromazine was not the only source of melamine in agriculture and in environment. Moreover, with the exception of Switzerland, the residue definition in most countries in all food was cyromazine and did not include melamine.

#### **BUPROFEZIN (173)**

37. The Committee decided to advance the proposed draft MRLs for banana and tea, green to Step 5/8, noting the reservation of the Delegations of the EU and Norway on the proposed draft MRL for tea, green.

38. The Delegation of the USA expressed a concern that for coffee, the two data sets from 2 different regions (USA and Brazil) had not been used to propose a MRL.

39. The JMPR Secretariat responded that there was insufficient information provided on the cultural practices to combine the two data sets.

40. The Committee noted that an evaluation for coffee was scheduled for 2014 and might be considered in 2013.

#### **GLUFOSINATE-AMMONIUM (175)**

41. The Committee agreed to retain the proposed draft MRLs for banana; kiwifruit; lettuce, leaf; soya bean (dry) and edible offal (mammalian) at Step 4, waiting for the re-evaluation of these MRLs by the 2013 JMPR in light of the acute intake concern raised by Australia, China, the EU and Norway.

42. The JMPR Secretariat agreed to consider the use of Toxic Equivalent Factors for metabolites and parent compounds to refine the dietary risk estimates.

43. The Committee decided to withdraw the proposed draft MRLs for sunflower seed and sunflower seed oil, crude and revoke the associated CXL for the two commodities as the proportionality principle could not be applied to the supporting residue data set for this desiccant use.

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

45. The Committee decided to revoke the CXLs for almond hulls; berries and other small fruits (except currants); broad bean (dry) and peas (dry) as recommended by the 2012 JMPR.

46. The Committee noted the reservations from the Delegations of the EU and Norway with respect to the proposed draft MRLs for the assorted tropical and subtropical fruits, edible peel; assorted tropical and subtropical fruits, inedible peel; currants, black, red, white; potato and stone fruits.

#### **HEXYTHIAZOX (176)**

47. The Committee decided to advance the draft MRL for strawberry for adoption at Step 8, noting the reservation of the Delegations of the EU and Norway with the subsequent revocation of the associated CXL as recommended by the 2009 JMPR.

#### **CYCLOXYDIM (179)**

48. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs (including common bean), noting the reservation of the Delegations of the EU and Norway on brassica (cole or cabbage) vegetables, head cabbage, flowerhead brassicas and eggs.

49. The Committee also agreed to change the MRL for maize fodder (dry) to 2 mg/kg, as recommended by the 2012 JMPR.

#### **ETOFENPROX (184)**

50. The Committee decided to advance the draft MRL for grapes for adoption at Step 8.

#### **FENPROPATHRIN (185)**

51. The Committee was informed that the new ARfD established by the 2012 JMPR for fenpropathrin was 0.03 mg/kg bw.

**TEBUCONAZOLE (189)**

52. The Committee agreed to revoke the CXL and withdraw the draft MRL for pome fruits as the individual CXLs for apple and pear had been adopted by the 35<sup>th</sup> CAC.

**FENBUCONAZOLE (197)**

53. The Committee decided to advance all the draft MRLs for adoption at Step 8, with the subsequent revocation of the associated CXLs as recommended by JMPR.

**ESFENVALERATE (204)**

54. The Committee decided to advance the draft MRLs for cotton seed; tomato and wheat for adoption at Step 8.

**IMIDACLOPRID (206)**

55. The Committee agreed to advance the proposed draft MRL for celery for adoption at Step 5/8 noting the reservation of the Delegations of the EU and Norway.

56. The Committee agreed to advance the proposed draft MRL for pulses (except soya beans) for adoption at Step 5/8 and to revoke the CXL for peas (dry) as recommended by the 2012 JMPR.

**METHOXYFENOZIDE (209)**

57. The Committee decided to withdraw the proposed draft MRL for spring onion because the supporting residue data set did not meet the proportionality criteria (deviation from critical GAP of multiple parameters: application rate and number of application) and agreed to advance all the remaining proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs, noting the reservation of the Delegations of the EU and Norway on MRLs for fruiting vegetables, cucurbits.

**PYRACLOSTROBIN (210)**

58. The Committee decided to advance the proposed draft MRL for citrus oil, edible for adoption at Step 5/8 with the subsequent revocation of the individual CXL for orange oil, edible.

**FLUDIOXONIL (211)**

59. The Committee agreed to advance the proposed draft MRL for mango for adoption at Step 5/8.

60. The Committee decided to revoke the interim CXLs for soya bean (dry) and sunflower seed as the Interim MRLs project had been discontinued.

**TRIFLOXYSTROBIN (213)**

61. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs. The Committee also agreed to revoke the Interim CXL for sugar beet (see Fludioxonil).

**INDOXACARB (216)**

62. The Committee agreed to advance the proposed draft MRL for lettuce, leaf for adoption at Step 5/8, with the subsequent revocation of the associated CXL.

**AZOXYSTROBIN (229)**

63. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs and withdrawal of the associated proposed draft MRLs.

**SPINETORAM (233)**

64. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8, noting the reservations of the Delegations of the EU and Norway on the proposed draft MRLs for celery; spinach and brassica vegetables.

**SPIROTETRAMATE (234)**

65. The Committee decided to advance the proposed draft MRLs for milks to Step 5/8, with the subsequent revocation of the existing CXL and withdrawal of the draft MRL.

**CLOTHIANIDIN (238)**

66. The Committee was advised that the EU concern form on clothianidin at the 2012 JMPR meeting was not able to be addressed due to heavy workload and limited resource of the FAO Panel, and that the issue would be reconsidered at the 2013 JMPR .

67. The Committee decided to retain the draft MRLs for root and tuber vegetables at Step 7, awaiting the outcome of JMPR in 2013.

**DICAMBA (240)**

68. The Committee decided to retain the draft MRL for soya bean (dry) at Step 7, because the use of proportionality was not appropriate for desiccants according to newly developed principles, noting that the manufacturer had already submitted new data for JMPR further consideration in 2013 or 2014.

**FLUOPYRAM (243)**

69. The Committee decided to retain the proposed draft MRLs for peppers; and peppers chili, dried at Step 4, because the supporting residue data set did not meet the proportionality criteria, noting the industry would submit new data to JMPR for further consideration.

70. The Committee agreed to advance all the remaining proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the existing CXLs for edible offal (mammalian); meat (from mammals other than marine mammals) and milks.

**ACETAMIPRID (246)**

71. The Committee decided to withdraw the draft MRLs for leafy vegetables (except spinach) and the proposed draft MRL for spinach because of the acute intake concern identified by the 2012 JMPR.

**FLUTRIAFOL (248)**

72. The Committee agreed to advance the proposed draft MRL for dried grapes (=currants, raisins and sultanas) and grapes and to Step 8.

**ISOPYRAZAM (249)**

73. The Committee was informed that in response to a concern form submitted by the EU, JMPR had reviewed the toxicology studies on which the EU had derived a different ADI and ARfD, and had confirmed the ADI and ARfD values established by JMPR in 2011.

**SAFLUFENACIL (251)**

74. The Committee decided to advance the proposed draft MRL for pulses to Step 5/8, with the subsequent revocation of the existing individual CXLs for beans (dry); peas (dry) and soya bean (dry), noting the reservation of the Delegations of the EU and Norway on this proposed draft MRL.

**SULFOXAFLOL (252)**

75. In line with the discussion outlined under Agenda Item 12a, the Committee agreed to maintain the proposed draft MRLs for citrus fruits; pome fruits; stone fruits and tree nuts at Step 4, because the GAP reviewed by JMPR differed from the registered USA GAP.

76. The Committee agreed to forward all other proposed draft MRLs to Step 5/8, noting the reservation of Japan on the draft MRLs for barley; broccoli; cauliflower; dried grapes (=currants, raisins and sultanas); fruiting vegetables other than cucurbits; grapes; peppers chili, dried; root and tuber vegetables; triticale and wheat as these MRLs were estimated on the basis of residue data generated in countries where corresponding GAP was not established.

77. The Committee agreed to withdraw the proposed draft MRL for watercress, as the group MRL for leafy vegetables at the same level had been forwarded for adoption.

78. The Committee noted the general reservation of the EU as sulfoxaflor was still under evaluation in the EU. The Delegation of Norway also expressed their general reservation.

**PENTHIOPYRAD (253)**

79. The Committee decided to retain the draft MRLs for alfalfa fodder; almond hulls; barley; barley straw and fodder, dry; cabbages, head; cotton gin trash; cotton seed; eggs; maize; maize flour; maize fodder (dry); maize oil, crude; millet; millet fodder, dry; mustard greens; oat straw and fodder, dry; oats; pea hay or pea fodder (dry); peanut; peanut fodder; peanut oil, edible; pome fruits; poultry fats; poultry meat; poultry, edible offal of; rape seed; rape seed oil, crude; rape seed oil, edible; rye; rye straw and fodder, dry; sorghum; sorghum straw and fodder, dry; soya bean (dry); soya bean fodder; sugar beet; sunflower seed; triticale; triticale straw and fodder, dry; wheat; wheat bran, processed; wheat germ; wheat straw and fodder, dry at Step 4, waiting JMPR assessment of an animal dietary burden that excludes the Australian dietary burden estimates (as penthiopyrad was not registered for use on soy beans in Australia) and consideration of an alternative GAP for mustard greens.

80. The Committee decided to advance all remaining proposed draft MRLs for adoption at Step 5/8, noting the reservation of the Delegations of the EU and Norway on the proposed draft MRLs for flowerhead brassicas; stone fruits; and leafy vegetables (except brassica leafy vegetables).

**CHLORFENAPYR (254)**

81. The Committee noted that the 2012 JMPR had established a new ARfD of 0.03 mg/kg, that new data for the metabolite AC 303, 268 were made available by the sponsor and that the compound was on the agenda of the 2013 JMPR for a follow-up evaluation.

**DINOTEFURAN (255)**

82. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8 noting the reservations of the Delegations of the EU and Norway on MRLs for brassicas; fruiting vegetables, cucurbits; fruiting vegetables other than cucurbits and leafy vegetables.

**FLUXAPYROXAD (256)**

83. The Committee agreed to revise the proposed draft MRL to 0.8 mg/kg for oilseed (except peanut and cotton), to align with the estimate derived from the use of the OECD calculator. The Committee decided to advance this proposed draft MRL for adoption at Step 5/8.

84. The Committee decided to advance the remaining proposed draft MRLs for adoption at Step 5/8, noting the reservation of the Delegations of the EU and Norway regarding the stone fruits group MRL.

**MCPA (257)**

85. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8.

86. In response to the concern of the Delegation of the EU on the residue definition for MCPA, the JMPR Secretariat explained that the consensus view of JMPR was based on the need to encourage residue monitoring.

**PICOXYSTROBIN (258)**

87. The Committee noted that the 2012 JMPR had established a new ARfD of 0.09 mg/kg bw and had identified two metabolites of picoxystrobin that were potentially more toxic than parent compound. The Committee noted that additional data relating to the metabolites were to be submitted by the sponsor for JMPR consideration.

**SEDAXANE (259)**

88. The Committee decided to advance all proposed draft MRLs for adoption at Step 5/8 as recommended by the 2012 JMPR.

89. The Committee also agreed to advance the draft MRL of 0.01 mg/kg for soy bean (dry) in line with the proposed corrigendum to the 2012 JMPR report (replacing the entry for soy bean (immature)).

**AMETOCTRADIN (260)**

90. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8 noting the reservation of the Delegations of the EU and Norway on the proposed draft MRLs for brassica (cole or cabbage) vegetables, head cabbage, flowerhead brassicas; leafy vegetables and spring onion.

**DISCUSSION PAPER ON PRINCIPLES AND GUIDANCE FOR THE USE OF THE CONCEPT OF PROPORTIONALITY TO ESTIMATE MAXIMUM RESIDUE LIMITS FOR PESTICIDES (Agenda Item 6b)<sup>11</sup>**

91. The Committee recalled that previous sessions had discussed the JMPR policy to use data from field trials where application rates are within  $\pm 25\%$  of critical GAP (cGAP) and how to address the use of data from trials where rates are above 25%. The JMPR had considered the concept of proportionality in 2010 and 2011 and the CCPR had considered discussion papers on this issue at its 43<sup>rd</sup> and 44<sup>th</sup> sessions (2011 and 2012) following discussion on a number of compounds for which JMPR applied this concept. The 44<sup>th</sup> session had agreed that an EWG chaired by Australia and co-chaired by Germany would develop principles and guidance for the use of the concept and to resolve the issues put forward in earlier discussions.

92. The Delegation of Australia indicated that the EWG had considered the analysis of trial data sets in which the application rate was the only parameter which differed, and the ratio of the application rate to the residue concentration. The data analysis sufficiently confirmed the use of proportionality for several types of treatments. The Committee expressed its thanks to Australia, Germany and the working group for their excellent work and considered the principles and guidance presented in paragraphs 32 to 40 of the working document, with the following comments and amendments.

93. As regards the applicability of proportionality, the Committee agreed that it was applicable to insecticides, fungicides, herbicides and plant growth regulators. The Committee discussed the inclusion of desiccants and noted the comments that the new data for dicamba show that the proportionality approach did not seem suitable for desiccants. After some discussion it was agreed that desiccants should be excluded and paragraph 32 was amended accordingly.

94. The Committee agreed with the proposals in paragraphs 33 and 34 on conditions for applicability of proportionality, referring to the acceptable rate range for field trials and the need for quantifiable residues.

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<sup>11</sup> CX/PR 13/45/6; CRD 7 (comments of USA); CRD 11 (comments of EU), CRD 17 (comments of China), CRD 19 (comments of Colombia).

95. The Committee agreed with the principle in paragraph 35 that the application rate is the only deviation from cGAP and added a new sentence to clarify how to address other uncertainties so that the overall uncertainty of the residues is not increased.

96. The Committee amended paragraph 36 to reflect that proportionality could not be used at this stage for post-harvest and hydroponic situations due to insufficient data. The Committee agreed with the provisions of paragraphs 37, referring to major and minor crops and extrapolation, 38 (processed commodities) and 39 (exposure assessments).

97. The Committee discussed the need for a certain ratio of trials at GAP as confirmatory data, while recognising that the approach could be used on data sets containing 100% scaled data. Some delegations supported a specific ratio of 50%, while other delegations considered that these requirements should be applied on a case by case basis. It was clarified that 100% scaled data could be used for large data set and that “at least 50% of trials at GAP may be requested on a case-by-case basis depending for example on the range of scaling factors”, and that some trials at GAP might be useful as confirmatory data.

### Conclusion

98. The Committee agreed to forward the *Principles and Guidance for Application of the Proportionality Concept to Estimation of Maximum Residue Limits for Pesticides* to the 36<sup>th</sup> session of the Commission for adoption and inclusion in the Procedural Manual as an Annex to the *Risk Analysis Principles Applied by the Codex Committee on Pesticide Residues* (Appendix VIII).

99. The Committee also agreed to recommend that JMPR apply these Principles and Guidance. The JMPR Secretariat informed the Committee that these provisions would be applied by JMPR and could be included in the FAO Manual at a future date since the Manual was not revised every year.

### **DISCUSSION PAPER ON THE REVIEW OF THE COMMODITY GROUPS IN THE DATABASE FOR MAXIMUM RESIDUE LIMITS FOR PESTICIDES TO DETERMINE THE NEED FOR REVISION OF RELEVANT GROUP MRLs (revised fruit commodity groups of the Classification of Food and Animal Feed) (Agenda Item 6c)<sup>12</sup>**

100. The Delegation of the Netherlands, as Chair of the EWG on the Classification, introduced the working paper and recalled that the last session of the Committee had agreed to forward various fruit commodity groups to the Commission for final adoption and inclusion in the Classification and that the revised fruit commodity groups would supersede existing corresponding provisions in the Classification. The Delegation also recalled that following this decision the Committee had agreed to task the EWG with the review of the fruit commodity groups in the database for MRLs for pesticides in relation to the revised fruit commodity groups in the Classification to determine the need for revision of relevant group MRLs.

101. The Delegation explained that the fruit commodity groups listed in Appendix I to CX/PR 13/45/7 were the consequential amendments to the fruit commodity groups in the database that should be introduced as a result of the adoption of the revised fruit commodity groups in the Classification. She noted that the database did not include the scientific names of the commodities hence changes in scientific names were not listed in the Appendix.

102. The Delegation also indicated that the new commodity groups had been revised based on residue potential taking note of the possible difficulties with the dietary risk assessment hence the commodities in the new commodity groups presumably has similar residue potential. In this regard, the procedure used by JMPR for recommending maximum residue levels acknowledged that the consumption and residue data for the commodities on which data are available are thought to adequately cover commodities for which no data are available namely “*unless there is information to the contrary, the group MRL covers the added minor commodities with no further dietary risk assessment required*”.

103. The Delegation further indicated that MRLs were established if there was an approved use however it would be a large task to verify the GAP for the group MRLs when they were applied to the new lists of commodities. Therefore, the alignment of the group MRLs with existing GAPs would be resolved as JMPR revisited the relevant compounds according to the schedule for evaluations and periodic re-evaluations.

104. A delegation suggested that, as the Codex MRLs database did not include names of commodities in each group and subgroup and the scientific names of the commodities, the database should contain a link to the Classification of Food and Feed.

105. Based on the above explanation, the Delegation commented on whether the existing MRLs for citrus fruits should include or exclude kumquats as they were eaten with the peel (edible portion = whole fruit) as opposed to citrus fruits that were eaten without the peel (edible portion = flesh). In addition, JMPR considered residues in the flesh when conducting the dietary risk assessment for citrus fruits which might not be relevant to kumquats therefore, unless consumption data was provided, existing MRLs for citrus fruits might have to exclude kumquats.

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<sup>12</sup> CX/PR 13/45/7; CRD 6 (comments of Japan); CRD 16 (comments of Australia); CRD 17 (comments of China); CRD 29 (comments of Japan).



106. In this regard, the delegation of Japan indicated that kumquats were similar to lemons and limes where the whole commodity were consumed and that the peel of certain citrus fruits were often consumed as processed foods such as marmalade and candied citrus peel. In addition, based on the Japanese food consumption data, the ratio of consumption volume of kumquats to that of all citrus fruits was only 0.28% for the general population and 0.18% for children of 1-6 years of age. Therefore, as the consumption volume of kumquats was very small in relation to that of the other citrus fruits, the overall contribution of kumquats to the citrus fruits group would not significantly increase the dietary exposure. Consequently, it could be assumed that the exposure assessment of kumquats had already been covered by that of the other citrus fruits and so there would be no reason to exclude kumquats from the citrus fruit group MRLs.

107. Following these comments, the delegation of Australia requested clarification as to whether the risk assessment supporting the MRLs for citrus fruits was based on residues in the flesh or residues in the whole fruit only or a combination of both. The Delegation noted that no reasonable dietary risk might be expected with the inclusion of kumquats in the citrus group for those compounds with no acute reference dose assigned and acceptable chronic exposure. In addition, due to the size of the fruit (= smaller than other citrus fruits) Case 1 (= unit weight is < 25 g) would seem to be appropriate for the conduct of the short-term dietary risk assessment and so if the consumption based on the large portion of the commodity was low compared to larger citrus fruits the dietary exposure would also be low.

108. Based on the above considerations, the delegation of Japan presented an analysis of existing MRLs for citrus fruits in relation to the applicability of these group MRLs to kumquats (CRD 29) by which for those compounds for which dietary assessment for citrus fruits was conducted based on the residues in the whole fruit (Table 1 / CRD 29) and for those for which the dietary assessment for citrus fruits was conducted on the residues in the flesh and no acute reference dose was established (Table 2 / CRD 29) there seemed to be no dietary risk with the inclusion of kumquats in the MRLs for citrus fruits and therefore these group MRLs should include kumquats. For those compounds for which the dietary risk assessment for citrus fruits was conducted based on the residues in the flesh and an acute reference dose was established (Table 3 / CRD 29) consumption data on the large portion of the commodity should be provided to identify existing MRLs for citrus fruits with potential dietary concern due to the inclusion of kumquats.

## Conclusion

109. Based on the above considerations, the Committee agreed to make adjustments to the database as indicated in Appendix I of CX/PR 13/45/7 and that no changes would be made to existing group MRLs until such a time JMPR would revise the group MRLs following the procedures in place for the establishment of Codex schedules and priority list of pesticides. The Committee further agreed that the same approach would be taken when reviewing other commodity groups in the database following the adoption of revised commodity groups in the Classification.

110. As regards kumquats, the Committee agreed that those MRLs for citrus fruits listed in Tables 1 and 2 of CRD 29 should also apply to kumquats while for the remaining group MRLs listed in Table 3 of CRD 29 the indication "excluding kumquats" would be inserted in the MRLs for citrus fruits in the database. The revised MRLs would be forwarded to the 36<sup>th</sup> session of the Commission for adoption as consequential amendments (Appendix IX).

111. The Committee also agreed that the Delegation of Japan would request Members to provide relevant consumption data on kumquat to perform further analysis to determine the appropriateness to include kumquats or to carry out additional dietary exposure assessment and would present its findings in a discussion paper for consideration by the next session of the Committee.

## DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: SELECTED VEGETABLE COMMODITY GROUPS (Agenda Item 7a)<sup>13</sup>

112. The Delegation of the Netherlands, as the Chair of the EWG on the Classification, introduced the item and indicated that the Committee had received a large number of comments on commodities covered by Agenda Items 7a – 7c. In view of this, the Delegation had prepared CRD 30 which considered all written comments submitted at this session on these agenda items.

113. The Committee agreed to use this document as a basis of the discussion. In addition to editorial adjustments, the Committee made the following comments and amendments.

### Subgroup 013 B Brassica leafy vegetables

114. The Committee agreed to include Chinese kale and flowering Chinese cabbage as synonyms of broccoli, Chinese (VL 0401) and flowering white cabbage (VL 0468), respectively. It was clarified that wasabi leaves (VL 2786) should be classified in this group rather than in Herbs (Group 027) as they were consumed as a leafy vegetable.

### Subgroup 013 C Leaves of root and tuber vegetables

115. The Committee agreed to move radish leaves (VL 0494) to Group 013B Brassica leafy vegetables as the use pattern of pesticides was similar to that of turnip greens (VL 0506), which was classified in Group 013 B.

<sup>13</sup> CX/PR 13/45/8; CX/PR 13/45/8-Add.1 (comments of Canada, Costa Rica, Ghana, Kenya, Republic of Korea, USA); CRD 6 (comments of Japan); CRD 8 (comments of Iran); CRD 11 (comments of EU); CRD 13 (comments of Thailand); CRD 15 (comments of Nigeria); CRD 16 (comments of Australia); CRD 17 (comments of China); CRD 20 (comments of Honduras); CRD 25 (comments of Senegal); CRD 28 (comments of Republic of Korea); CRD 30 (revised Classification – Items 7a/b/c).

**Subgroup 013 D Leaves of trees, shrubs and vines**

116. The Committee agreed to correct the scientific name for white lead tree (VL 2814) and to add "lead tree" as its synonym.

**Subgroup 013 H Baby leaves**

117. The Committee agreed to amend the definition of baby leaves to clarify that this sub-group was applied to baby leaves of the leafy vegetable group. The Committee also agreed to move alfalfa sprouts, mungbean sprouts, radish sprouts and soya bean sprouts to the newly established subgroup "013 I Sprouts".

**STATUS OF THE DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: SELECTED VEGETABLE COMMODITY GROUPS**

118. The Committee agreed to hold the three commodity groups: Group 10 Brassica vegetables (except Brassica leafy vegetables); Group 13 Leafy vegetables; and Group 17 Stalk and stem vegetables at Step 7 awaiting finalization of the revision of the Classification of all vegetable commodity groups (Appendix X).

119. The Committee noted that, following the same approach taken for the completion of the fruit commodity groups, finalization of the vegetable commodity groups for final adoption by the Commission should take 2-3 sessions of the Committee (see also Agenda Item 7c).

**PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: OTHER SELECTED VEGETABLE COMMODITY GROUPS (Agenda Item 7b)<sup>14</sup>**

120. The Committee continued its discussion on this group based on revised commodities provided for in CRD 30 (see Agenda Item 7a) and made the following comments and amendments in addition to editorial changes.

**Subgroup 016 A Root vegetables**

121. The Committee agreed to classify wasabi root in Herbs (Group 027) as its edible portion was the stem and underground stem and it was used as herbs.

**Subgroup 016 C Aquatic root and tuber vegetables**

122. The Committee agreed to put water chestnut, water bamboo and foxnut in square brackets for further consideration as the edible parts were not a root or tuber.

**STATUS OF THE DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: OTHER SELECTED VEGETABLE COMMODITY GROUPS**

123. The Committee agreed to forward the proposed draft revision to the Classification - Group 16 Root and tuber vegetables for adoption at Step 5 by the 36<sup>th</sup> session of the Commission (Appendix XI).

**Further work**

124. The Committee agreed to reconvene the EWG led by the Netherlands and the United States of America and working in English to proceed with the elaboration of additional vegetable commodity groups for consideration at the next session.

**PROPOSED DRAFT TABLE 2 - Examples of selection of representative commodities for vegetable commodity groups and other commodity groups (for inclusion in the *Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups*) (Agenda Item 7c)<sup>15</sup>**

125. The Committee considered CRD 30 (See Agenda Item 7a) and, in addition to editorial corrections, made the following comments and amendments.

**Group 009 Bulb vegetables****Subgroup 009 B Green onions**

126. The Committee agreed to add "or leek" as an example of representative commodity.

**Group 010 Brassica vegetables (except Brassica leafy vegetables)****Subgroup 010 A Flowerhead brassicas**

127. The Committee agreed to remove "or cauliflower" from examples for Group 010 and Subgroup 010 A as residue levels in broccoli were generally higher than that in cauliflower.

<sup>14</sup> CX/PR 13/45/9; CX/PR 13/45/9-Add.1 (comments of Canada, Costa Rica, Ghana, USA); CRD 6 (comments of Japan); CRD 11 (comments of EU); CRD 13 (comments of Thailand); CRD 15 (comments of Nigeria); CRD 16 (comments of Australia); CRD 17 (comments of China); CRD 19 (comments of Colombia); CRD 20 (comments of Honduras); CRD 28 (comments of Republic of Korea); CRD 30 (revised Classification – Items 7a/b/c).

<sup>15</sup> CX/PR 13/45/10; CX/PR 13/45/10-Add.1 (comments of Canada, Costa Rica, Ghana, Kenya, Republic of Korea); CRD 11 (comments of EU); CRD 13 (comments of Thailand); CRD 15 (comments of Nigeria); CRD 16 (comments of Australia); CRD 17 (comments of China); CRD 19 (comments of Colombia); CRD 20 (comments of Honduras); CRD 25 (comments of Senegal); CRD 27 (comments of Japan); CRD 28 (comments of Republic of Korea); CRD 30 (revised Classification – Items 7a/b/c).

### Subgroup 013 C Leaves of root and tuber vegetables

128. The Committee agreed to remove “or radish leaves” from examples for the subgroup as the commodity was no longer part of this sub-group.

### Group 017 Stalk and stem vegetables

129. The Committee agreed that the example should be “celery and asparagus and/or artichoke, globe”.

### Footnote 3

130. The Committee agreed not to include the footnote to avoid redundancy as this table would be incorporated in the Principle and Guidance whose provisions already covered the intention of the footnote.

### Status of Table 2

131. The Committee agreed to return Table 2 to Step 2/3 for redrafting by the above-mentioned EWG (See Agenda Item 7b) for comments and consideration at its next session.

132. The Committee further agreed that the vegetable commodity groups in Table 2 should be finalized together with the corresponding commodity groups in the Classification so that both vegetable commodity groups in the Classification and in Table 2 could be sent together for final adoption by the Commission and inclusion of Table 2 in the *Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups*.

### DISCUSSION PAPER ON GUIDANCE TO FACILITATE THE ESTABLISHMENT OF MAXIMUM RESIDUE LIMITS FOR PESTICIDES FOR MINOR CROPS / SPECIALTY CROPS (Agenda Item 8)<sup>16</sup>

133. The Delegation of France, as Chair of the in-session WG on Minor Crops / Specialty Crops, recalled that the Committee at its last session had agreed on criteria for use by CCPR and JMPR to determine the minimum number of field trials necessary to support the establishment of MRLs for minor crops / specialty crops in order to facilitate data submission to JMPR and to further develop these criteria to classify commodities according to consumption; to establish a list of commodities and the number of residue trials; to explore the development of a database to identify residue data needs for minor crops for specific chemicals which are on the priority list for JMPR; and to consider additional proposals for future work.

134. The Delegation highlighted the main points for consideration as contained in the working document namely: recommendation of the 0.5% cut-off diet criteria and its mode of calculation; use of the FAO STAT 2 and the updated GEMS/FOOD cluster diets to further develop of list of crops for which consumption values are above the threshold value of 0.5% of dietary intake (Annex I to CX/PR 13/45/11); the tiers 2 (consumption per cluster) methodology to further develop the list of crops (including number of trials) for which consumption values are below the threshold value of 0.5% of dietary intake (Annex II to CX/PR 13/45/11); criteria to refine the list of crops with consumption values less than 0.5% to be used on case by case basis, some of them requiring further discussion and agreement such as the use of large portion of the commodity together with other criteria like seasonality; crops for further refinement (Annexes I and II) including fruits adopted in the revised Classification of Food and Feed; outstanding issues around 10% of these crops in relation to items which are the combination of more than one commodity that might not allow the identification of major and minor crops, lack of consumption data and the subsequent need for national consumption data; and the possible development of a database in close connection with the GMU steering committees in global needs and data sharing databases and the CCPR priority list.

135. The Committee generally supported the recommendations presented in the working document. Several delegations highlighted the relevance of this work to facilitate international trade in minor crops / specialty crops. A delegation noted that it would be useful to develop criteria for combining global dataset to support the establishment of MRLs for minor crops.

### Conclusion

136. The Committee agreed that the remaining issues and possible future work identified in the document could form the basis for further work as follows:

- Refining a limited list of crops not finalized in Annexes I and II of CX/PR 13/45/11;
- Requesting consumption data on specific crops;
- Proposing a draft guidance document to facilitate the establishment of MRLs for pesticides for minor crops;
- Continuing the development of a simple database to identify residue data needs for minor crops for specific chemicals on the priority list for JMPR.

137. The Committee agreed that the above task would be carried out by an EWG chaired by France and co-chaired by Kenya and Thailand and working in English only. It was suggested that the invitation to join the EWG would include list of crops not finalized for further work by the EWG.

<sup>16</sup> CX/PR 13/45/11; CRD 5 (comments of Canada); CRD 11 (comments of EU); CRD 17 (comments of China); CRD 20 (comments of Honduras).

**DISCUSSION PAPER ON PERFORMANCE CRITERIA FOR SUITABILITY ASSESSMENT OF METHODS OF ANALYSIS FOR PESTICIDE RESIDUES (Agenda Item 9)<sup>17</sup>**

138. The Delegation of the United States of America, as Chair of the in-session WG on Methods of Analysis, introduced CRD 31 and recalled that the Committee at its last session it had decided to recommend the revocation of *Analysis of Pesticide Methods: Recommended Methods* (CODEX STAN 229-1993) and to establish an EWG to prepare a discussion paper on the development of performance criteria for suitability assessment of methods of analysis with consideration given to the relevant documents developed or under development in the Committee on Residues of Veterinary Drugs in Foods as well as other Codex texts.

139. The Delegation informed the Committee that the in-session WG had considered the information and recommendations in paragraphs 19 and 20 of CX/PR 45/13/45 and agreed to recommend the Committee to consider new work on criteria specific for methods for the determination of pesticide residues and draw the attention of delegations to the project document attached to CRD 31.

**Conclusion**

140. The Committee agreed with the proposal on preparation of a document on performance criteria specific for methods for determination of pesticide residues and to forward the proposal for approval as new work by the 36<sup>th</sup> session of the Commission (Appendix XII).

141. The Committee further agreed that this task would be carried out by an EWG chaired by the United States of America and co-chaired by China working in English only.

**REVISION OF THE RISK ANALYSIS PRINCIPLES APPLIED BY THE CODEX COMMITTEE ON PESTICIDE RESIDUES (Agenda Item 10)<sup>18</sup>**

142. The Delegation of Argentina, as Chair of the in-session WG on Risk Analysis, recalled that Committee at its last session had agreed on most of the text of the Principles (i.e. sections 1 to 5.1, 6 and 8) except those provisions related to sections 5.2 on selection of compounds for JMPR evaluation, 5.3 on periodic review procedure and 7 on procedure for submitting concern and clarification forms for which a revised text of CX/PR 13/45/13 is provided in CRD 32 (rev) (section 5.2) in addition to a revised text (sections 5.3 and 7) recommended by the in-session WG.

143. The Delegation indicated that if these revised sections were agreed upon by the Committee, there would still be a need to introduce a few adjustments that would not alter the concept of the text in these sections but provide further clarification on the provisions therein. The Delegation also noted that the integration of all the sections of the Principles into a single document would require some consequential amendments and editorial work that would not be possible to make at the present session but could be carried out electronically for consideration and finalization by the next session of the Committee.

144. The Delegation explained that the main changes presented in sections 5.2, 5.3 and 7 reflected the current practice for prioritization of compounds for JMPR evaluation, simplification of the periodic review, and improvement of the procedure for submitting concern and clarification forms.

145. As regards simplification of section 5.3, the Delegation explained that there were only two cases i.e. compounds supported (case A) or not supported (case B) by Codex members / observers (industry) so the additional details contained in CX/PR 13/45/13 for case C were already taken up in Appendices 2A and B (compounds listed for periodic review) of the Codex schedules and priority lists when establishing such lists for the prioritization of compounds for JMPR evaluation in the EWG on Priorities (section 5.2). The Delegation also explained that the revised case B was in line with the explanation provided by the 2012 JMPR Meeting as regards JMPR requirements for evaluation of compounds no longer supported by the original sponsor (Section 2.1, General Considerations, 2012 JMPR report).

146. In this regard, the Committee noted that clarification would be provided as regards those compounds scheduled for period review in Appendix 2B (compounds under the 15 years rule but not yet scheduled for period review for which no specific health concern has yet been identified) in order to provide a timeframe for their transfer to Appendix 2A (compounds under the 15 years rule listed for period review) in order to ensure the safety of such compounds by undergoing the periodic review process. The Committee agreed that the transfer of compounds scheduled for periodic review from Appendix 2B to 2A would be based on information on concerns including public health and inventory of studies to be submitted for residue evaluation provided by Codex members and observers and in consultation between the Chair of the EWG on Priorities and the FAO and WHO JMPR Secretariats.

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<sup>17</sup> CX/PR 13/45/12; CRD 4 (comments of Ghana and Kenya); CRD 8 (comments of Iran); CRD 13 (comments of Thailand); CRD 17 (comments of China); CRD 19 (comments of Colombia); CRD 20 (comments of Honduras); CRD 31 (Project document on proposal for new work on guidance on performance criteria specific for methods of analysis for the determination of pesticide residues).

<sup>18</sup> CX/PR 13/45/13; CX/PR 13/45 13-Add.1 (comments of Australia, Brazil, Canada, Costa Rica, Ghana, Kenya, USA, CropLife International); CRD 6 (comments of Japan); CRD 11 (comments of EU); CRD 12 (comments of Argentina); and CRD 13 (comments of Thailand); and CRD 14 (comments of Chile, Brazil, Ecuador, El Salvador, Honduras, Peru, Dominican Republic); CRD 17 (comments of China); CRD 19 (comments of Colombia); CRD 20 (comments of Honduras); CRD 26 (comments of ALINA); CRD 32 (revised Risk Analysis Principles applied by the Codex Committee on Pesticide Residues, Section 5.2).

147. As regards information to be submitted in support of compounds in case A namely whether the current GAP support the current Codex MRL(s), the FAO JMPR Secretariat requested clarification as to who would confirm this requirement and noted that submission of labels only was not enough for JMPR to proceed with the periodic review. It was clarified that it is up to the Codex member or observer who is in support of the Codex MRL(s) to provide relevant scientific supporting information as to whether the current GAP proposed to support the Codex MRL(s) is in line with GAP on which the MRL(s) were based upon at the time JMPR carried out the residue evaluation of the compound and it is up to JMPR to confirm this information. It was further noted that at this stage agreement should be sought on the concept and that further refinement of the provisions could be done by electronic means and to report back on the findings at the next session of the Committee.

148. With regard to section 7, the Delegation of Argentina explained that changes introduced aimed at providing clear guidance and timeframe on how to submit concern and clarification forms with proposals for MRLs arising from the JMPR evaluation and on how to submit information on public health concerns in relation to their prioritization for periodic review (i.e. transfer of compounds from Appendices 2B to 2A). A new section 7.4 was included to provide guidance in relation to the advancement of MRLs in the Step Procedure in the light of different risk assessment policies.

### Conclusion

149. The Committee noted general agreement on the revised sections 5.2, 5.3 and 7 and agreed to append the revised text to its report to facilitate the integration of the different sections of the Principles (Appendix XIII).

150. The Committee further noted that the integration of the different sections of the Risk Analysis Principles would entail some consequential amendments arising from the agreements achieved at the discussion at the last and present session of the Committee in addition to editorial adjustments that would be carried out by an EWG chaired by Costa Rica and co-chaired by Chile, working in English and Spanish, in order to present a single document for consideration by the next session of the Committee that could be forwarded for final adoption by the 37<sup>th</sup> session of the Commission in 2014.

### ESTABLISHMENT OF CODEX SCHEDULES AND PRIORITY LISTS OF PESTICIDES (Agenda Item 11)<sup>19</sup>

151. The Delegation of Australia, as Chair of the EWG on Priorities, introduced CRD 1.

#### Scheduling of chemicals

152. The EWG Chair indicated that the proposed 2014 JMPR evaluation schedule contained 11 new compound evaluations, 23 new use and other evaluations and 3 existing compounds re-evaluations. Of the eleven new compounds, two (flufenoxuron and metrafenone) were given 'reserve' status.

153. The EWG Chair noted several minor changes to the 2014 schedule including a series of new use and other evaluations which were expected to be conducted in 2013. The EWG Chair confirmed that these would remain in the 2014 Schedule in case the 2013 evaluations did not occur.

154. The JMPR Secretariats, in noting the two reserve compounds, indicated that the schedule of evaluations could be undertaken if sufficient resources were available. The Committee confirmed the 2014 Schedule of JMPR evaluations.

#### Unsupported compounds

155. The EWG Chair highlighted the compounds in Appendix 2B (Listed but not yet Scheduled) for which support was either unknown or not provided by a manufacturer. The EWG Chair indicated that several of these compounds, while already listed on the basis of meeting the 15 year rule, in fact had not been subjected to periodic review for over 20 years.

156. In line with earlier interventions, the EWG Chair indicated that those particular compounds would be brought to the attention of the EWG on Priorities with a view to gaining notice of support from at least one member / observer. The EWG Chair indicated that the EWG on Priorities would be asked to consider whether or not there were public health concerns for any of the compounds listed in Appendix 2B.

#### Other matters

157. The EWG Chair explained that Priorities appendices 5, 6 and 7 contained information already provided in other documents and appendices. The EWG Chair proposed that these appendices should be removed and the Committee agreed with this proposal.

158. The WHO JMPR Secretariat welcomed the priority list for compounds to be evaluated or re-evaluated in 2014. However, the Secretariat noted that no financial resources were currently available to organize JMPR in 2014. The Secretariat emphasized that considering the constant financial constraints to both FAO and WHO and in order to fulfill the task requested by CCPR, sufficient additional resources for JMPR should be available for FAO and WHO prior to the assignment of Experts i.e. in early January 2014.

<sup>19</sup> CX/PR 13/45/14; CX/PR 13/45/14-Add.1 (comments of Costa Rica and Ghana); CRD 1 (CCPR Schedule and Priority Lists of Pesticides); CRD 9 (comments of Brazil); CRD 13 (comments of Thailand); CRD 17 (comments of China); CRD 18 (comments of Indonesia); CRD 19 (comments of Colombia); CRD 20 (comments of Honduras); CRDs 21 and 22 (comments of India); CRD 23 (comments of Iran).

## Conclusion

159. The EWG Chair indicated that the work of the EWG on Priorities for 2014 would commence after the Codex Secretariat has issued an invitation to all members / observers seeking participation in the EWG.

160. The EWG Chair closed the session on scheduling and prioritization of compounds for JMPR evaluation. The Schedule and Priority List tables as amended by the Committee are at Appendix XIV.

161. The Committee agreed on the Priority List for 2014 as provided in Appendix XIV.

162. The Committee further agreed to re-convene the EWG on Priorities under the chairmanship of Australia working in English only to provide a report on the schedule and priority lists for consideration at its next session.

## OTHER BUSINESS AND FUTURE WORK (Agenda Item 12)

### OUTCOME OF THE PILOT PROJECT FOR JMPR RECOMMENDATION OF MRLS BEFORE NATIONAL GOVERNMENTS OR OTHER REGIONAL REGISTRATION AUTHORITIES FOR A GLOBAL JOINT REVIEW CHEMICAL (Agenda Item 12a)<sup>20</sup>

163. The Delegation of the United States of America introduced document CX/PR 13/45/15 and recalled that the concept of a simultaneous JMPR and national review to facilitate the harmonization of Codex MRLs had been discussed in previous sessions of the Committee and in the first Global Minor Use Summit in 2007. Following approval by the Commission of the *"pilot project for JMPR recommendation of MRLs before national governments or other regional registration authorities for a global joint review chemical"* in 2010, the JMPR conducted a parallel evaluation of sulfoxaflor in 2011. The 44<sup>th</sup> session of the Committee considered the recommendations of JMPR and agreed to retain at Step 4 all proposed draft MRLs for sulfoxaflor pending completion of the pilot project.

164. The Delegation pointed out that the JMPR review had been useful to national authorities as they completed their review of sulfoxaflor and informed the Committee that this compound had been registered or was in the process of being authorised in several countries.

165. The Delegation therefore recommended that the Committee propose a change in the prioritization criteria that would allow new compounds meeting certain criteria to be scheduled for evaluation by JMPR before national registrations have occurred; and that JMPR rely on global datasets for residue field trial data when recommending MRLs for new chemicals that are being reviewed concurrently with national authorities. The Delegation also supported advancing to Step 5/8 MRLs those commodities that JMPR has reviewed for sulfoxaflor based on the global dataset and that have since been registered by a national authority and where the GAP aligns with the GAP JMPR reviewed or is within 25% of the GAP. The Delegation presented the results of their comparison:

- Appendix I: MRLs for Sulfoxaflor for Commodities where GAP JMPR Reviewed Align with Registered National Label
- Appendix II: MRLs for Sulfoxaflor for Commodities where GAP JMPR Reviewed and Registered National Label Differ but within 25% of GAP
- Appendix III: MRL for Sulfoxaflor for Commodities where GAP JMPR Reviewed and Registered National Label Differ and not within 25% of GAP

166. The JMPR Secretariat informed the Committee that sulfoxaflor data were used by the 2011 JMPR to illustrate MRL estimates obtained using geographical zones (current JMPR practice) and assuming residues did not primarily depend on zones (Global Dataset Method). The 2011 JMPR Meeting used trials complying with proposed GAP irrespective of geographical location. A comparison table of "MRL Estimates for Sulfoxaflor" was provided in the 2011 JMPR report. The JMPR agreed that from 2012, geographical location should not be a barrier in selecting trials for estimation of maximum residue levels. The JMPR would use Global Dataset approach on a case-by-case basis. Meanwhile, the JMPR noted that there would be cases where regional differences in cultural practices would need to be considered.

167. Several delegations and one observer supported the approach of the pilot project in order to establish MRLs more rapidly for new compounds, and noted that this was especially important for developing countries. One delegation pointed out that this approach provided a wider data set for the purpose of statistical analysis.

168. Other delegations expressed concerns that if national GAPs were amended after the review was conducted by JMPR, this would require a new evaluation, and would not facilitate MRL setting; and also indicated that at the national level it was very difficult to establish import tolerances on the basis of estimated GAPs. The following questions were raised in the discussion: the need to develop criteria for global data set; the need for a definition of global GAP and whether the OECD-509 definition applied to the pilot project; and whether national or global GAPs were used for the purposes of comparison.

169. Several delegations pointed out that the pilot project should be evaluated, as initially agreed when the project document was put forward at the 42<sup>nd</sup> session of CCPR (paras 195 – 202 in ALINORM 10/33/24), and that all issues related to its application should be carefully considered before proceeding with any further step such as revising the criteria for prioritization or undertaking a similar process with other compounds.

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<sup>20</sup> CX/PR 13/45/15.

170. As regards the need for an evaluation of the project, it was proposed to consider it in a more general perspective on possible options for improving the MRL setting process while considering the proposal of CropLife International in CRD 24 (see Agenda Item 12b).

171. Some delegations drew the attention of the Committee to the STDF project which was intended to facilitate data generation for setting Codex MRLs in developing countries in several regions and expressed concern that the global data resulting from this project might not be considered in the future.

172. The FAO JMPR Secretary clarified that the STDF project was intended to generate data for minor crops and that JMPR considered all data submitted for the purpose of establishing MRLs, and recalled that the risk management decisions on MRL setting were taken by the Committee. As regards the possible development of criteria, JMPR needed to gain more experience with the evaluation of global data set in order to allow the development of criteria in the future.

#### **MRLs**

173. Some delegations supported consideration of the MRLs for Sulfoxaflor for Commodities where GAP JMPR Reviewed Align with Registered National Label, as listed in Appendix I. Other delegations proposed that the MRLs in Appendix II should also be considered for adoption as the GAP reviewed by JMPR differed within 25% of GAP. As regards the MRLs listed in Appendix III, it was noted that these MRLs would require reconsideration when registered labels became available.

174. After some discussion, the Committee agreed to consider the MRLs for sulfoxaflor presented in CX/PR 13/45/5, which included most commodities listed in Appendices I and II.

175. It was agreed to retain the MRLs for citrus fruits, pome fruits, stone fruits, and tree nuts at Step 4 pending consideration of authorized labels by JMPR when they became available. As regards MRLs for commodities of animal origin, it was agreed that they could be considered for advancement as the current assessment was very conservative.

176. The detailed status of MRLs is presented under Agenda Item 6a.

#### **PROPOSAL FOR EVALUATION OF NEW OPTIONS SUPPORTING TIMELY ADVANCEMENT OF CODEX MRLs FOR NEW COMPOUNDS (Agenda Item 12b)<sup>21</sup>**

177. The Observer from CropLife International referred to its proposal in CRD 24 to evaluate options to ensure timely advancement of Codex MRLs for new compounds and referred to the possibility to use national evaluations of new compounds provided by Codex members on a voluntary basis to propose MRLs and toxicological end points for consideration by CCPR. The Observer noted that the high demand for MRLs for new compounds due to the increase of the global trade of agricultural commodities would not decline in the mid-term future while the evaluation of new compounds including periodic re-evaluation and follow-up evaluations significantly exceeded the capacity of JMPR. In addition, budget limitations in FAO, WHO and Codex members might not allow an improvement of the situation in the near future therefore, the Committee might wish to look into additional opportunities in parallel with FAO, WHO, CAC and Codex members' efforts to improve the capacity of JMPR in order to identify other pathways to allow efficient uses of available resources and existing outputs. The Observer acknowledged the constant efforts of JMPR to cope with Codex members needs and committed to continuous cooperating with JMPR in the submission of high quality data packages to facilitate the evaluation process.

178. The WHO JMPR Secretariat recognized the workload in the JMPR and reminded the Committee of the continuous request for a sustainable funding of the provision of scientific advice to Member Countries and the CAC. The Secretariat also reminded the Committee of its former proposals for consideration by CCPR of viable ways for JMPR to address the current backlog on the list of compounds for evaluations such as the organization of two JMPR meetings within a year in time. The Secretariat recognized that the international risk assessment process is costly but necessary to ensure the quality, transparency and independence of the process to allow for the setting of global representative food safety standards based on scientific evidence. The establishment of a parallel process for the provision of scientific advice would make it difficult to maintain the integrity, independency and comparability of the results. However the Secretariat further noted that CCPR as a risk management body could explore alternative avenues of establishing global MRLs for which scientific advice is not requested.

179. The FAO JMPR Secretariat noted that the JMPR had made great efforts and progress in recent years to increase transparency and harmonization of methodologies in the estimation of MRLs as requested by CCPR and Codex member countries.

180. The Codex Secretariat informed the Committee about a paper on funding options for scientific advice that is being prepared for consideration by the upcoming sessions of the Executive Committee and the Commission.

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<sup>21</sup> CRD 24 (Proposal from CropLife International on new options supporting timely advancement of Codex MRLs for new compounds).

181. The Committee noted the following views in regard to this matter: The workload of JMPR and the need to explore novel options to increase the number of MRLs for new active compounds; the options identified should not replace the central role of JMPR in providing international independent and transparent safety risk assessment for the establishment of worldwide MRLs for pesticides by CCPR; the options available should ensure consistency in risk assessment policies and methodologies so that outcomes could be comparable in order not to create further delays in the MRL setting process and in any case they should be examined by JMPR before being considered by the Committee. Other views referred to the need to examine the actual enforcement of Codex MRLs by Codex members and their application in international trade to identify those pesticide / commodity combinations of relevance for Codex members and international trade and this would better assist JMPR and CCPR in rationalizing resources in the establishment of MRLs for pesticides.

#### **Conclusion**

182. The Committee noted that there was not enough support to consider new avenues to assist CCPR in the establishment of more MRLs for new active compounds and agreed not to pursue the matter at this point in time.

#### **DATE AND PLACE OF THE NEXT SESSION (Agenda Item 13)**

183. The Committee was informed that its 46<sup>th</sup> session was tentatively scheduled to be held in China, in one year time, the final arrangements being subject to confirmation by the Host Country and the Codex Secretariats.



## SUMMARY STATUS OF WORK

| Subject  | Step         | Action by   | Reference<br>REP13/PR        |
|--|--------------|---|------------------------------|
| Draft MRLs for pesticides  | 8            | Governments<br>36 <sup>th</sup> CAC   | paras. 17-90<br>Appendix II  |
| Proposed draft MRLs for pesticides   | 5/8          | Governments<br>36 <sup>th</sup> CAC   | paras. 17-90<br>Appendix III |
| Draft MRLs for pesticides  | 7            | 46 <sup>th</sup> CCPR<br>(awaiting further advice<br>from JMPR)   | paras. 17-90<br>Appendix V   |
| Draft revision to the Classification of Food and Feed (vegetable commodity groups: Brassica vegetables (except Brassica leafy vegetables); Leafy vegetables and Stalk and stem vegetables)   | 7            | 46 <sup>th</sup> CCPR<br>(awaiting finalization of the<br>revision of the Classification of<br>Food and Feed – vegetable<br>commodity groups) | para. 118<br>Appendix X      |
| Proposed draft revision to the Classification of Food and Feed (vegetable commodity groups: roots and tubers)  | 5            | Governments<br>36 <sup>th</sup> CAC<br>46 <sup>th</sup> CCPR  | para. 123<br>Appendix XI     |
| Proposed draft MRLs for pesticides   | 4            | 46 <sup>th</sup> CCPR<br>(awaiting further advice<br>from JMPR)   | paras. 17-90<br>Appendix VI  |
| Project document on guidance on performance criteria specific for methods of analysis for determination of pesticide residues  | 1/2/3        | 36 <sup>th</sup> CAC<br>Governments<br>EWG<br>(USA and China)<br>46 <sup>th</sup> CCPR  | para. 140<br>Appendix XII    |
| Establishment of Codex schedules and priority list of pesticides for evaluation by JMPR  | 1/2/3        | 36 <sup>th</sup> CAC<br>Governments<br>EWG on Priorities<br>(Australia)<br>46 <sup>th</sup> CCPR  | para. 161<br>Appendix XIV    |
| Maximum residue limits for pesticides recommended for revocation   | For adoption | Governments<br>36 <sup>th</sup> CAC   | paras. 17-90<br>Appendix IV  |
| Principles and guidance for application of the proportionality concept for estimation of Maximum Residue Limits for Pesticides (for inclusion in the Procedural Manual as an Annex to the <i>Risk Analysis Principles applied by the Codex Committee on Pesticide Residues</i> ) | For adoption | Governments<br>36 <sup>th</sup> CAC   | para. 98<br>Appendix VIII    |

| Subject   | Step         | Action by  | Reference<br>REP13/PR              |
|---|--------------|--|------------------------------------|
| Consequential amendments to maximum residue limits for pesticides for fruit commodity groups due to revision of the <i>Classification of Food and Feed</i> as per these commodity groups  | For adoption | Governments<br>36 <sup>th</sup> CAC  | paras. 109-110<br>Appendix IX      |
| Pilot project for JMPR recommendation of MRLs before national governments or other regional registration authorities for a global joint review chemical   | ---          | 36 <sup>th</sup> CAC<br>(pilot project finalized within the framework of completion of work) | paras. 75-78; 170;<br>175-176; 182 |
| Proposed draft revision to the <i>Classification of Food and Feed</i> – other vegetable commodity groups  | 2/3          | EWG<br>(The Netherlands and USA)<br>Governments<br>46 <sup>th</sup> CCPR                     | para. 124                          |
| Proposed draft Table 2: Examples of Selection of Representative Commodities – Vegetable commodity groups and other commodity groups ( <i>Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups</i> ) | 2/3          | EWG<br>(The Netherlands and USA)<br>Governments<br>46 <sup>th</sup> CCPR                     | paras. 131-132                     |
| Revision of the <i>Risk Analysis Principles applied by the Codex Committee on Pesticide Residues</i>  | ---          | EWG<br>(Costa Rica and Chile)<br>Comments<br>46 <sup>th</sup> CCPR                           | paras. 149-150<br>Appendix XIII    |
| Discussion paper on guidance to facilitate the establishment of maximum residue limits for pesticides for minor crops / specialty crops   | ---          | EWG<br>(France with the assistance of Kenya and Thailand)<br>46 <sup>th</sup> CCPR           | para. 136                          |

## LIST OF PARTICIPANTS

## CHAIRPERSON

## Dr Xiongwu QIAO

Shanxi Academy of Agricultural Sciences  
 2 Changfeng Street Taiyuan  
 Shanxi Province, 030006  
 P.R. China  
 Tel: +86 351 7581865  
 Fax: +86 351 7040092  
 E-mail: [ccpr\\_qiao@agri.gov.cn](mailto:ccpr_qiao@agri.gov.cn)

## MEMBER COUNTRIES

## ARGENTINA / ARGENTINE

## Mr Juan Carlos PAZ

Ministerio  
 Embassy of Argentina in China  
 San li tun Dong Wu Jie No. 11  
 100600, Beijing, China  
 Tel: 010-65321906  
 E-mail: [paz@mrecic.gov.ar](mailto:paz@mrecic.gov.ar)

## Mr Carlos Enrique CAPPARELLI

Director Ejecutivo  
 Cámara de la Industria Argentina de Fertilizantes y Agroquímicos  
 (CIAFA)  
 Dirección Ejecutiva  
 Avda. Rivadavia 1367 - 7° B  
 1033 Ciudad Autonoma de Buenos Aires  
 Argentina  
 Tel: +54 11 4381 2742  
 Fax: +54 11 4383 1562  
 E-mail: [carloscapparelli@ciafa.org.ar](mailto:carloscapparelli@ciafa.org.ar)

## Ms Erika IMHOF

Third Secretary  
 Embassy of Argentina in China  
 Political Section  
 San li tun Dong Wu Jie No. 11  
 100600, Beijing, China  
 Tel: 010-65321906  
 E-mail: [imh@mrecic.gov.ar](mailto:imh@mrecic.gov.ar)

## AUSTRALIA / AUSTRALIE

## Mr Ian REICHSTEIN

Director  
 National Residue Survey  
 Australian Government Department of Agriculture, Fisheries and  
 Forestry  
 PO Box 858  
 2601 Canberra, Australia  
 Tel: +61 2 6272 5668  
 E-mail: [ian.reichstein@daff.gov.au](mailto:ian.reichstein@daff.gov.au)

## Dr Rajumati BHULA

Executive Director, Pesticides  
 Australian Pesticides and Veterinary Medicines Authority  
 18 Wormald Street, Symonston  
 2609 ACT  
 Australia  
 Tel: + 61 2 6210 4826  
 E-mail: [raj.bhula@apvma.gov.au](mailto:raj.bhula@apvma.gov.au)

## Mr Kevin BODNARUK

Horticulture  
 26/12 Phillip Mall  
 2073 West Pymble  
 Australia  
 Tel: +61 294993833  
 Fax: +61294996055  
 E-mail: [kevinakc@bigpond.net.au](mailto:kevinakc@bigpond.net.au)

## Mr William MURRAY

GRDC Grains  
 Grains Research and Development Corporation  
 22 Thornley Close  
 3156 Ferntree Gully  
 Australia  
 Tel: 61 3 97638396  
 E-mail: [wjmurray@bigpond.net.au](mailto:wjmurray@bigpond.net.au)

## Mr Christopher WILLIAMS

Assistant Director-Plant Program  
 National Residue Survey  
 Australian Government Department of Agriculture, Fisheries and  
 Forestry  
 GPO Box 858  
 2601 Canberra  
 Australia  
 Tel: +61 2 6272 3614  
 Fax: +61 2 6272 4203  
 E-mail: [chris.williams@daff.gov.au](mailto:chris.williams@daff.gov.au)

**BANGLADESH****Mr Golam MD SARWAR**

Assistant Director  
Agriculture and Food Division  
Bangladesh Standards and Testing Institution (BSTI)  
116-A, Tejgaon Industrial Area  
Dhaka1208, Bangladesh  
Tel: +88028870278  
Cell phone:+8801718463662  
Fax: +88029131581  
E-mail: [kbsarwarbsti@gmail.com](mailto:kbsarwarbsti@gmail.com)

**BELGIUM / BELGIQUE / BÉLGICA****Ms Anke VAN LANCKER**

Second Secretary  
Belgian Embassy  
6 San Li Tun Lu  
100600 Beijing, China  
Tel: +86 10) 6532 1736  
E-mail: [Anke.VanLancker@diplobel.fed.be](mailto:Anke.VanLancker@diplobel.fed.be)

**BHUTAN / BHOUTAN / BHUTÁN****Mr Jamyang PHUNTSO**

Chief Laboratory Officer  
Bhutan Agriculture and Food Regulatory Authority  
Ministry of Agriculture and Forests  
BAFRA, MoAF, Thimphu, Bhutan  
11011  
Tel: 00975 02 327031  
Fax: 00975 02327032  
E-mail: [jamphuntso@hotmail.com](mailto:jamphuntso@hotmail.com)

**Ms Tashi YANGZOM**

Regulatory and Quarantine Officer  
Bhutan Agriculture and Food Regulatory Authority  
Ministry of Agriculture and Forests  
BAFRA, MoAF, Thimphu, Bhutan  
11011  
Tel: 00975 02 327031  
Fax: 00975 02327032  
E-mail: [tashiyanz@gmail.com](mailto:tashiyanz@gmail.com)

**BRAZIL / BRÉSIL / BRASIL****Mr Luis RANGEL**

General Coordinator of Pesticides  
Ministry of Agriculture, Livestock and Food Supply  
Brazil  
Tel: +55 (61) 3218 2445 / 5341  
E-mail: [luis.rangel@agricultura.gov.br](mailto:luis.rangel@agricultura.gov.br)

**Ms Silvia DE TOLEDO FAGNANI LIGABÓ**

Foreign Trade and International Relations Manager  
SINDAG – Sindicato Nacional da Indústria de Produtos para Defesa  
Agrícola)  
Av. Iraí, 393, CJ 114 – MOEMA – São Paulo – SP  
04082-001 São Paulo, Brazil  
Tel: +55 (11) 5094 5533 / 5540  
Fax: +55 (11) 5094 5534  
E-mail: [silvia@sindag.com.br](mailto:silvia@sindag.com.br)

**Ms Lidia GONÇALVES**

Federal Health Analyst  
Anvisa  
SIA (Setor de Industria e Abastecimento) Trecho 05 Area Especial 57,  
Lote 200  
71.205-050 --541 Brasília  
Brazil  
Tel: 55 61 34626781  
Fax: 55 61 3462- 5726  
E-mail: [lidia.nunes@anvisa.gov.br](mailto:lidia.nunes@anvisa.gov.br)

**Ms Cleide OLIVEIRA**

Rua Breves, 363 – 04645-000  
São Paulo / SP - Brazil  
Brazil  
Tel: +55 11 3124-4455  
Fax: +55 11 3124-4455  
E-mail: [ocleide@uol.com.br](mailto:ocleide@uol.com.br) ; [cleide@vignabrasil.com.br](mailto:cleide@vignabrasil.com.br)

**Mr Marcus Venicius PIRES**

Health Analyst  
SIA (Setor de Industria e Abastecimento) Trecho 05 Area Especial 57,  
Lote 200  
71.205-050 --541 Brasilia  
Brazil  
Tel: 55 61 34624231  
Fax: 55 61 3462- 5726  
E-mail: [marcus.pires@anvisa.gov.br](mailto:marcus.pires@anvisa.gov.br)

**Ms Heloisa TOLEDO, H.B.**

Health Regulatory Expert  
Rua Carlos Gomes, 539 - 14.800-270 – Araraquara – São Paulo -  
Brazil  
14.800-270 São Paulo  
Brazil  
Tel: +55 16 33224360  
Fax: +55 61 3462-5315  
E-mail: [he.toledo@hotmail.com](mailto:he.toledo@hotmail.com)

**CAMEROON / CAMEROUN / CAMERÚN****Mr Ebai Takang STEPHEN**

Head of the National Laboratory for Analysis of Agric Products and  
Inputs, Minader, Yaounde

E-mail: [ebaits@yahoo.co.uk](mailto:ebaits@yahoo.co.uk)

**Mr Forghab Patrick MBOMBA**

Sub Director of Environmental Economy  
Ministry of Environment, Protection of Nature and Sustainable

Development Yaounde

Tel:+(237)77615343

E-mail: [forghabp@yahoo.com](mailto:forghabp@yahoo.com) ; [forghabp@gmail.com](mailto:forghabp@gmail.com)

**CANADA / CANADÁ****Dr Peter CHAN**

Director General

Pest Management Regulatory Agency

Health Canada

2720 Riverside Drive, Charles Tupper Building

K1A0K9 Ottawa, Canada

Tel: 613-736-3510

Fax: 613-736-3909

E-mail: [peter.chan@hc-sc.gc.ca](mailto:peter.chan@hc-sc.gc.ca)

**Dr Richard AUCOIN**

Executive Director

Pest Management Regulatory Agency,

Health Canada

2720 Riverside Drive, Charles Tupper Building

K1A0K9 Ottawa, Canada

Tel: 613-136-3701

Fax: 613-736-3707

E-mail: [richard.aucoin@hc-sc.gc.ca](mailto:richard.aucoin@hc-sc.gc.ca)

**Mr Mark GOODWIN**

Pest Management Coordinator

6 Stonehaven Cl

R3R3G3 Winnipeg

CANADA

Tel: 204-782-2083

E-mail: [mqconsulting@shaw.ca](mailto:mqconsulting@shaw.ca)

**Ms Donna GRANT**

Chemist, Pesticide Residue Unit

Canadian Food Inspection Agency

3650-36 Street, N.W. Calgary

T2L2L1 Calgary, Canada

Tel: 403-299-7636

Fax: 403-221-3293

E-mail: [donna.grant@inspection.gc.ca](mailto:donna.grant@inspection.gc.ca)

**Ms Marion LAW**

Chief Registrar and Director General

Pest Management Regulatory Agency (Health Canada)

2720 Riverside Drive

K1A1K0 Ottawa

Canada

Tel: 613-736-3704

Fax: 613-736-3707

E-mail: [marion.law@hc-sc.gc.ca](mailto:marion.law@hc-sc.gc.ca)

**Dr Manjeet SETHI**

Executive Director

Pest Management Centre, Agriculture and Agri-Food Canada

Building 57, 960 Carling Ave

K1A0C5 Ottawa

Canada

Tel: 613-759-7431

Fax: 613-759-1400

E-mail: [manjeet.sethi@agr.gc.ca](mailto:manjeet.sethi@agr.gc.ca)

**CHILE / CHILI****Ms Sylvia Soledad FERRADA CHAMORRO**

Jefa Subdepartamento Negociaciones Internacionales

Servicio Agrícola y Ganadero

División Asuntos Internacionales

Bulnes 140 piso 5

Santiago

Chile

Tel: 56 2 23451427

E-mail: [soledad.ferrada@sag.gob.cl](mailto:soledad.ferrada@sag.gob.cl)

**Mr Eduardo AYLWIN**

Asesor

Agencia Chilena para la Inocuidad Alimentaria

Nueva York 17 Piso 4

Santiago

Chile

Tel: 5627979900

E-mail: [eduardo.aylwin@achipia.gob.cl](mailto:eduardo.aylwin@achipia.gob.cl)

**Ms María Elvira LERMANA FUCHSLOCHER**

Gerente

AFIPA

Felix de Amesti 124 of 31, Las Condes

Santiago

Chile

Tel: 56-2-22066792

Fax: 56-2-22079286

E-mail: [info@afipa.cl](mailto:info@afipa.cl)

**Ms Jimena del Pilar LÓPEZ ARAVENA**

Ing. Agrónomo Jefe Depto. Frutas y Hortalizas  
Asociación de Exportadores de Frutas de Chile A.G.  
Depto. Frutas y Hortalizas  
Cruz del Sur N°133 2° piso, Las Condes  
Santiago  
Chile  
Tel: 56224724722  
E-mail: [jlopez@asoex.cl](mailto:jlopez@asoex.cl)

**CHINA / CHINE****Mr Pengfei SUI**

Director General  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59194359  
Fax: +86-10-59194047  
E-mail: [pengfeisui@yahoo.cn](mailto:pengfeisui@yahoo.cn)

**Ms Weiqin WANG**

Director  
Department of International Cooperation  
Ministry of Agriculture  
No.11 Nongzhan Nanli, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59192429  
Fax: +86-10-65003621  
E-mail: [weiqinw@agri.gov.cn](mailto:weiqinw@agri.gov.cn)

**Mr Shaozhe HUANG**

Section Chief  
Pesticide Management Division  
Department of Crop Production  
Ministry of Agriculture  
No.11 Nongzhan Nanli, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59191695  
Fax: +86-10-59192810  
E-mail: [huangshaozhe@agri.gov.cn](mailto:huangshaozhe@agri.gov.cn)

**Ms Xiaohua FANG**

Deputy Division Director  
Bureau of Quality and Safety Supervision for  
Agro-products  
Ministry of Agriculture  
No.11 Nongzhan Nanli, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59192313  
Fax: +86-10-59193315  
E-mail: [fangxiaohua@agri.gov.cn](mailto:fangxiaohua@agri.gov.cn)

**Mr Guangxue LIU**

Professor  
Residue Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District, 100125  
Beijing, China  
Tel: +86-10-589194105  
Fax: +86-10-59194107  
E-mail: [liuguangxue@agri.gov.cn](mailto:liuguangxue@agri.gov.cn)

**Mr Guibiao YE**

Director  
Residue Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District, 100125  
Beijing, China  
Tel: +86-10-59194302  
Fax: +86-10-59194107  
E-mail: [yeguibiao@agri.gov.cn](mailto:yeguibiao@agri.gov.cn)

**Mr Weili SHAN**

Director  
Registration Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59194253  
Fax: +86-10-59194063  
E-mail: [shanweili@agri.gov.cn](mailto:shanweili@agri.gov.cn)

**Mr Chuanjiang TAO**

Director  
Health Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59194084  
Fax: +86-10-59194244  
E-mail: [taochuanjiang@agri.gov.cn](mailto:taochuanjiang@agri.gov.cn)

**Mr Canping PAN**

Professor  
College of Science  
China Agricultural University  
No.2 Yuanmingyuan West Road  
100193 Beijing, China  
Tel: 86-10-62731978  
Fax: 86-10-62733620  
E-mail: [Panc@cau.edu.cn](mailto:Panc@cau.edu.cn)

**Mr Fengmao LIU**

Professor  
College of Science, China Agricultural University  
No.2 Yuanmingyuan West Road, 100193, Beijing, China  
Tel: 86-10-62731978  
Fax: 86-10-62733620  
E-mail: [Lfm2000@cau.edu.cn](mailto:Lfm2000@cau.edu.cn)

**Mr Yongquan ZHENG**

Professor  
Chinese Academy of Agricultural Sciences  
Institute of Plant Protection  
No.2 Yuanmingyuan West Road, China  
100193 Beijing, China  
Tel: 86-10-62815908  
E-mail: [yqzheng@ippcaas.cn](mailto:yqzheng@ippcaas.cn)

**Ms Na LIU**

Deputy Director  
Ministry of Commerce  
2, Dong Chang An Street, Beijing, China  
Beijing, China  
Tel: 86-10-65197383  
Fax: 86-0-65197061  
E-mail: [liuna@mofcom.gov.cn](mailto:liuna@mofcom.gov.cn)

**Ms Hong MIAO**

Researcher  
China National Centre for Food Safety Risk Assessment  
7 Panjiayuan Nanli, Chaoyang District  
Beijing, 100021, China  
Tel: 86-10-67770158  
E-mail: [Miaohong0827@163.com](mailto:Miaohong0827@163.com)

**Mr Hao DING**

Research Fellow  
China National Center for Food Safety Risk Assessment  
Building 2, No 37, Guangqu Road, Chaoyang District, 100022  
Beijing, China  
Tel: 86-10-52165407  
Fax: 86-10- 52165408  
E-mail: [dinghao@cfssa.net.cn](mailto:dinghao@cfssa.net.cn)

**Mr Jieping SHI**

Chief of Division/ State Food and Drug  
Administration  
Department of Food Safety Coordination  
A38 Beilishi Road  
100810 Beijing, China  
Tel: +86 108 833 0763  
Fax: +86 108 837 0947  
E-mail: [shijp@sfd.gov.cn](mailto:shijp@sfd.gov.cn)

**Mr Shuangcheng MA**

Professor / Director  
National Institute for Food and Drug Control  
Institute for Control of Chinese Traditional Medicine and Ethnic  
Medicine  
No.2, Tian Tan Xi Li, Dongcheng District, 100050 Beijing, China  
Tel: 86-10-67095272  
Fax: 86-10-67095887  
E-mail: [masc@nifdc.org.cn](mailto:masc@nifdc.org.cn)

**Mr Xixian DENG**

Officer  
China Food and Drug Administration  
Room 0706, No.26 Xuanwumen West Street, Xicheng District,  
100053 Beijing, China  
Tel: 86-10-88330766  
Fax: 86-10-88370947  
E-mail: [sfdafood@126.com](mailto:sfdafood@126.com)

**Mr Songxue WANG**

Associate Researcher  
Academy of State Administration of Grain  
No.11 Baiwanzhuang Street, Beijing  
100037 Beijing, China  
Tel: 86+10-58523708  
Fax: 86+10-58523599  
E-mail: [wsx@chinagrains.org](mailto:wsx@chinagrains.org)

**Mr Jizhou YANG**

Professor/Deputy Director  
Inspection and Quarantine Technical Center of Henan Entry-Exit  
Inspection and Quarantine Bureau  
269 Jinshui Road, 450003 Zhengzhou, China  
Tel: 86-371-55196567  
Fax: 86-371-55196568  
E-mail: [jizhouyang@163.com](mailto:jizhouyang@163.com)

**Mr Sik Man CHOI**

Senior Chemist (Food Chemistry)  
Centre for Food Safety  
Food and Environmental Hygiene Department  
43/F, Queensway Government Office  
66 Queensway, Hong Kong, China  
Tel: 852-28675022  
Fax: 852-28933547  
E-mail: [smchoi@fehd.gov.hk](mailto:smchoi@fehd.gov.hk)

**Mr Wai Kuen CHEUNG**

Agricultural Officer  
Centre for Food Safety  
Food and Environmental Hygiene Department  
43/F, Queensway Government Office  
66 Queensway, Hong Kong, China  
Tel: 852-28675801  
Fax: 852-28933547  
E-mail: [waikcheung@fehd.gov.hk](mailto:waikcheung@fehd.gov.hk)

**Ms Joan YAU**

Scientific Officer  
Centre for Food Safety  
Food and Environmental Hygiene Department, HKSARG  
43/F, Queensway Government Office  
66 Queensway, Hong Kong, China  
Tel: 852-28675608  
Fax: 852-28933547  
E-mail: [jcwyau@fehd.gov.hk](mailto:jcwyau@fehd.gov.hk)

**COLOMBIA / COLOMBIE****Mr Cristian DIAZ**

Specialized Professional  
INVIMA  
Food Safety  
Cra 68D # 17 -11 Bogota- Colombia  
11001000  
Tel: 57 3138001039  
Fax: 57 1 2947800  
E-mail: [cdiazm@invima.gov.co](mailto:cdiazm@invima.gov.co)

**COSTA RICA****Ms Amanda LASSO CRUZ**

Licensed Food Technologist  
Department of Codex  
Ministry of Economy, Trade and Industry  
400 m al West the Comptroller General  
10.216-1000 Sabana South San Jose  
Costa Rica  
Tel: +50622491400  
Fax: +506 22912015  
E-mail: [alasso@meic.go.cr](mailto:alasso@meic.go.cr)

**Ms Marianela PIEDRA VARGAS**

Consejera  
Embajada de Costa Rica en China  
Tel: 00506-2539-5422  
E-mail: [info@costaricaembassycn.com](mailto:info@costaricaembassycn.com)

**DENMARK / DANEMARK / DINAMARCA****Ms Gudrun HILBERT**

Senior Scientific Adviser  
Danish Veterinary and Food Administration  
Stationsparken 33  
DK 2600 Glostrup  
DENMARK  
Tel: +45 7227 6631  
E-mail: [guh@fvst.dk](mailto:guh@fvst.dk)

**Ms Bodil Hamborg JENSEN**

Senior Adviser  
Technical University of Denmark  
National Food Institute  
Mørkhøj Bygade 19  
DK 2860 Søborg, Denmark  
Tel: +45 35887468  
E-mail: [bhje@food.dtu.dk](mailto:bhje@food.dtu.dk)



**DJIBOUTI****Mr Ali Ibrahim MOHAMED**

Chef de Service contrôle alimentaire et des services vétérinaires  
Direction de l'élevage et des services vétérinaires  
Ministère de l'agriculture et de  
l'élevage, de la pêche  
et des ressources halieutiques  
BP297-Djibouti  
Tel: 0025321 351025 /  
00253 7786 0600  
E-mail: [kifayaali118@hotmail.com](mailto:kifayaali118@hotmail.com)

**DOMINICAN REPUBLIC / RÉPUBLIQUE DOMINICAINE /  
REPÚBLICA DOMINICANA****Ms Rosa NG**

Representante de la Republica Dominicana  
Ministerio de Relaciones Exteriores y del Ministerio de Estado de  
Agricultura y Salud Publica de R.D.  
Oficina de Desarrollo Comercial de la Republica Dominicana en  
Beijing  
18 Xiaoyun Villa G-37 King's Garden Chaoyang Distrito Beijing  
Tel: 8610-64681387, 13810809450  
Fax: 8610-64681345  
E-mail: [rosangb@yahoo.com](mailto:rosangb@yahoo.com); [odecordbeijing@gmail.com](mailto:odecordbeijing@gmail.com)

**ESTONIA /ESTONIE****Ms Külli RAE**

Head of Bureau  
Ministry of Agriculture  
Food Safety Department  
Lai St. 39/41  
15056 Tallinn  
Estonia  
Tel: +3726256211  
Fax: +3726256210  
E-mail: [kylli.rae@agri.ee](mailto:kylli.rae@agri.ee)

**EUROPEAN UNION / UNION EUROPÉENNE / UNIÓN EUROPEA****Mr Risto HOLMA**

Administrator Responsible for Codex issues  
European Commission  
DG for Health and Consumers  
Rue Froissart 101  
1049 Brussels  
Belgium  
Tel: +322 2998683  
Fax: +322 298566  
E-mail: [risto.holma@ec.europa.eu](mailto:risto.holma@ec.europa.eu)

**Ms Francesca ARENA**

Deputy Head of Unit  
European Commission  
DG SANCO  
F101 04/076  
1049 Brussels  
Belgium  
Tel: +32 229-61364  
E-mail: [Francesca.ARENA@ec.europa.eu](mailto:Francesca.ARENA@ec.europa.eu)

**Ms Hermine REICH**

European Food Safety Authority  
Pesticides Unit  
Via Carlo Magno 1/A  
43126 Parma  
Tel: +39 0521 036 662  
E-mail: [Hermine.REICH@efsa.europa.eu](mailto:Hermine.REICH@efsa.europa.eu)

**Mr Volker WACHTLER**

Administrator  
European Commission  
DG SANCO  
F101 04/059  
1049 Brussels  
Belgium  
Tel: +32 229-58305  
E-mail: [volker.wachtler@ec.europa.eu](mailto:volker.wachtler@ec.europa.eu)

**FINLAND / FINLANDE / FINLANDIA****Ms Tiia MÄKINEN-TÖYKKÄ**

Senior Officer  
Finnish Food Safety Authority Evira  
Mustialankatu 3  
00790 Helsinki  
Finland  
Tel: +358-40-5521859  
E-mail: [tiila.makinen@evira.fi](mailto:tiila.makinen@evira.fi)

**FRANCE / FRANCIA****Ms Florence GÉRAULT**

Residue expert  
French ministry of agriculture  
DGAL - SRAL Pays de la Loire  
10 rue Le Notre  
49044 ANGERS Cedex  
France  
Tel: 00 33241723234  
Fax: 00 33241360035  
E-mail: [florence.gerault@agriculture.gouv.fr](mailto:florence.gerault@agriculture.gouv.fr)

**Mr Xavier SARDA**

Senior Scientific Officer  
Anses  
Regulated Product Directorate/ Residues and Food Safety Unit  
253 Avenue du Général Leclerc  
94700 Maisons-Alfort  
France  
Tel: 33 1 49 77 21 66  
Fax: 33 1 49 77 21 60  
E-mail: [xavier.sarda@anses.fr](mailto:xavier.sarda@anses.fr)

**GABON / GABÓN****Ms Pauline MESSAN ZOUNA**

Vice-president, Codex Alimentarius  
Comite National du Codex Alimentarius  
Cabinet du Ministere de l'Economie  
BP 8793 libre ville Gabon  
Tel: 241 06240731  
E-mail: [p.messanzouna@yahoo.fr](mailto:p.messanzouna@yahoo.fr)

**GAMBIA / GAMBIE****Mr Saja KONATEH**

Principal Agricultural Officer  
Plant Protection Services, Department of Agriculture  
Department of Agriculture  
Jolakunda, Latrikunda Sabiji  
Banjul  
Tel: (220) 9988799  
E-mail: [alikonateh@yahoo.com](mailto:alikonateh@yahoo.com)

**GERMANY /ALLEMAGNE / ALEMANIA****Ms Monika SCHUMACHER**

Administrator  
Federal Ministry of Food, Agriculture and Consumer Protection  
Division 322  
Rochusstrasse 1  
53123 Bonn  
Germany  
Tel: +49(0)228-99529-4662  
E-mail: [monika.schumacher@bmelv.bund.de](mailto:monika.schumacher@bmelv.bund.de)

**Mr Karsten HOHGARDT**

Federal Office of Consumer Protection and Food Safety  
Department Plant Protection Products  
Messeweg 11 - 12  
D-38104 Braunschweig, Germany  
E-mail: [karsten.hohgardt@bvl.bund.de](mailto:karsten.hohgardt@bvl.bund.de)

**Mr Hans-Dieter JUNGBLUT**

BASF SE  
Tel: +49 621 6027092  
Fax: +49 621 6027774  
E-mail: [hans-dieter.jungblut@basf.com](mailto:hans-dieter.jungblut@basf.com)

**Mr Otto KLEIN**

Bayer CropScience AG  
Tel: + 49 2173 385866  
Fax: +49 2173 383463  
E-mail: [otto.klein@bayer.com](mailto:otto.klein@bayer.com)

**Mr Harald SEULBERGER**

BASF SE  
Tel: + 49 621 6027008  
Fax: +49 621 6027092  
E-mail: [harald.seulberger@basf.com](mailto:harald.seulberger@basf.com)

**GHANA****Ms Ernestina AGAALIE ADEENZE**

Standards Officer  
Ghana Standards Authority  
Food and Agriculture Department  
Accra, Ghana  
Tel: +233 243 080 241  
E-mail: [codex@gsa.gov.gh](mailto:codex@gsa.gov.gh); [eadeenze@gmail.com](mailto:eadeenze@gmail.com)

**Mr Cheetham LAWRENCE MINGLE**

Senior Regulatory Officer  
Food and Drug Authority  
P. O. BOX CT 2783, CANTONMENTS  
Accra, Ghana  
Tel: +233 244 080 666  
E-mail: [Lcmingle@gmail.com](mailto:Lcmingle@gmail.com)

**GUINEA / GUINÉE****Mr Jean-Luc FABER**

Assistant  
Ministère de l'agriculture  
Service National de la Protection des Végétaux et des denrées  
stochées  
Conakry, Guinea  
Tel: (+224) 622 51 32 80  
E-mail: [elsabang@yahoo.fr](mailto:elsabang@yahoo.fr)

**HONDURAS****Ms Karen Melissa ARAUJO HANDAL**

Coordinadora Subcomite Codex de Residuos de Plaguicidas

Honduras

SENASA

Division de Inocuidad de Alimentos

Blvd. Miraflores, Ave La FAO contiguo a Injupemp

Tegucigalpa, Honduras

Tel: (504) 22326213

Fax: (504) 22310786

E-mail: [karaujo@senasa-sag.gob.hn](mailto:karaujo@senasa-sag.gob.hn)

**INDIA / INDE****Dr Krishan Kumar SHARMA**

Network Coordinator, AINP on Pesticide Residues

Indian Agricultural Research Institute, India

Indian Council of Agricultural Research

Room No 203, LBS Building, IARI, PUSA Campus

New Delhi -110012, India

Tel: 011-25846396

(m) +91(9868510292)

Fax: 011-25846396

E-mail: [kksaicrp@yahoo.co.in](mailto:kksaicrp@yahoo.co.in)

**Dr Amitava krishna ADHIKARI**

Director

Food Safety and Standards Authority of India

Central Food Laboratory

3, Kyd Street

700016 Kolkata, India

Tel: +919830977789

Fax: +9133-22498897

E-mail: [cfical@gmail.com](mailto:cfical@gmail.com)

**Mr Vipin BHATNAGAR**

Joint Director (Chemistry)

SECTT. of CIB & RC, Directorate of Plant Protection, Quarantine &

Storage

Ministry of Agriculture, Department of Agriculture & Cooperation

India

Tel: +91-129-2413002, +91-981828334

Fax: +91-129-2412125, +91-129-24130

E-mail: [vipinaug15@gmail.com](mailto:vipinaug15@gmail.com)

**Mr Ajit B. CHAVAN**

Deputy Secretary

Ministry of Commerce & Industry

Department of Commerce

Room No 224-D, UDYOG BHAWAN.

New Delhi - 110107

India

Tel: +91-11-23063691

Fax: +91-11-23063691

E-mail: [chavan@nic.in](mailto:chavan@nic.in)

**Dr PSS THAMPI**

Deputy Director

Spices Board India

Department of Commerce

NH BYPASS, COCHIN

682025 COCHIN

India

Tel: +91 9447435059/ +914842333606

Fax: +914842333606

E-mail: [drpssthampi2000@gmail.com](mailto:drpssthampi2000@gmail.com)

**Dr Akhilesh KAMAL**

Director (I&C), DEPTT. Of Animal Husbandry, Dairing & Fisheries

Room No 479

KRISHI BHAWAN

New Delhi - 110001

Tel: +91-11-23383699

Fax: +91-11-23383699

E-mail: [akhikamal@rediffmail.com](mailto:akhikamal@rediffmail.com)

**INDONESIA / INDONÉSIE****Dr Gardjita BUDI**

Director of Quality and Standardization

Ministry of Agriculture

Jl. Harsono RM No. 3 Ragunan D-Building 3th Floor

12550 Jakarta

Indonesia

Tel: +6221 7815881

Fax: +6221 7811468

E-mail: [gbudi.jkt@gmail.com](mailto:gbudi.jkt@gmail.com)

**Ms Puspaning BUANAWATY**

Supervisor of Pesticides Residue Laboratory  
Ministry of Trade  
Center For Quality Control of Goods  
JL. Raya Bogor Km 26, Ciracas  
12740 Jakarta  
Indonesia  
Tel: +6221 87721001 ext.2103  
Fax: +6221 87721001  
E-mail: [puspakoe@yahoo.com](mailto:puspakoe@yahoo.com)

**Ms Erna Riyanti WARDHANI**

Head Section of Crops and Livestock  
Directorate of Quality and Standardization, Ministry of Agriculture  
Jl. Harsono RM No. 3 Ragunan, D-building 3th Floor  
12550 Jakarta  
Indonesia  
Tel: +6221 7815830 ext.5310  
Fax: +6221 7811468  
E-mail: [codex\\_kementan@yahoo.com](mailto:codex_kementan@yahoo.com)

**IRAN (ISLAMIC REPUBLIC OF) /****IRAN (RÉPUBLIQUE / IRÁN ISLAMIQUE D') /****IRÁN (REPUBLICA ISLÁMICA DEL)****Ms Roya NOORBAKHSH**

Reffrence lab. Manager  
Iranian National Standard Organization (INSO)  
Standard Research Institute (SRI)  
Iran - Karaj - INSo - Pobox 31585-163  
Tel: 0098 2632808120; 00982632806031-8  
Fax: 00982632802130  
E-mail: [roybakhsh@yahoo.com](mailto:roybakhsh@yahoo.com)

**Dr Zahra RIAZI**

Mananger of Pesticide Lab(QC)  
Plant Protection Organization (PPO)  
Iran-Tehran-Chamran Highway  
-Yamen Street. Agriculture Garden -No.2  
PO box: 1985711169  
Tel: 00982123091325  
Fax: 00982122401012  
E-mail: [zaria777@yahoo.com](mailto:zaria777@yahoo.com)

**IRAQ****Ms Itiehd KAREM ZEDAN AL-AMERI**

Chief of Agriculture Engineering  
COSQC  
Food Standard  
Baghdad  
00964 Baghdad/ Aljaderia  
Iraq  
Tel: 07901526315  
E-mail: [food.products@yahoo.com](mailto:food.products@yahoo.com)

**Mr Haider JABBAR IBRAHIM AL-KHAFAJI**

Biologist  
COSQC  
Food Standard  
Baghdad  
00964 Baghdad/ Aljaderia  
Iraq  
Tel: 07809207086  
E-mail: [food.products@yahoo.com](mailto:food.products@yahoo.com)

**Ms Zeinab KAMIL ABDULATTEEF AL-KUBAISI**

Senior Chief Chemist  
COSQC  
Food Industrial  
Baghdad  
00964 Baghdad/ Aljaderia  
Iraq  
Tel: 07905195612  
E-mail: [food.products@yahoo.com](mailto:food.products@yahoo.com)

**Mr Khudhair TANNASH BUNIYA AL-SARRAY**

Senior Chemist  
COSQC  
Food Industrial  
Baghdad  
00964 Baghdad/ Aljaderia  
Iraq  
Tel: 07901414283  
E-mail: [food.products@yahoo.com](mailto:food.products@yahoo.com)

**Mr Ali Abdullha Sultan ALMALIKI**

Agronomist - Master of Pesticide Residue Analysis Fruit and Vegetables  
Ministry of Agriculture  
National Centre of Pesticide Control  
Iraq - Baghdad- Alkradad  
00964 Baghdad  
Iraq  
Tel: 00964776342018  
Fax: 00964776342018  
E-mail: [food.products@yahoo.com](mailto:food.products@yahoo.com)

**Mr Isam SAKAR**

Chemist  
Ministry of Health  
CPHL  
Baghdad Almansor City  
10062  
Tel: 9647901604377  
E-mail: [isam\\_sakar@yahoo.com](mailto:isam_sakar@yahoo.com)

**Mr Yousif YOUSIF**

Chemist  
Ministry of Environmemnt  
Chemicals Management Section  
Baghdad- al-Gadiassa sc604  
10062  
Iraq  
Tel: 9647904241710  
E-mail: [yousif80yousif@yahoo.com](mailto:yousif80yousif@yahoo.com)

**IRELAND / IRLANDE / IRLANDA****Mr Dermot SHERIDAN**

Senior Inspector  
Department of Agriculture, Food and the Marine  
Backweston Agri Labs  
Celbridge  
Co. Kildare  
Ireland  
Tel: + 353 1 615 7616  
Fax: + 353 1 615 7575  
E-mail: [Dermot.Sheridan@agriculture.gov.ie](mailto:Dermot.Sheridan@agriculture.gov.ie)

**Mr John ACTON**

Agricultural Inspector  
Department of Agriculture, Food and the Marine  
Backweston Agri Labs  
Celbridge  
Co. Kildare  
Ireland  
Tel: + 353 1 615 7583  
Fax: + 353 1 615 7575  
E-mail: [John.Acton@agriculture.gov.ie](mailto:John.Acton@agriculture.gov.ie)

**Mr Guido SALA CHIRI**

Administrator  
Council of the European Union  
DG B 2B  
Rue de la Loi 175  
1048 Brussels, Belgium  
Tel: +3222815734  
Fax: +3222816198  
E-mail: [guido.salachiri@consilium.europa.eu](mailto:guido.salachiri@consilium.europa.eu)

**ITALY / ITALIE / ITALIA****Mr Orazio SUMMO**

Italian Codex Contact Point  
Ministry of Agriculture, Food and Forestry Policies  
Via XX Settembre, 20 00187 Rome, Italy  
Tel: +390646654037  
Fax: +39064880273  
E-mail: [o.summo@mpaaf.gov.it](mailto:o.summo@mpaaf.gov.it)

**JAMAICA / JAMAÏQUE****Mr Collin COOPER**

Environmental Health Specialist  
Ministry of Health Food Safety & Protection  
2-4 King Street  
Kingston, Jamaica  
Tel: 876-9671275, 1876-866-5202(M)  
E-mail: [cooperco@moh.gov.jm](mailto:cooperco@moh.gov.jm); [Collin.cooper96@gmail.com](mailto:Collin.cooper96@gmail.com)

**JAPAN / JAPON / JAPÓN****Mr Masahiro SEGAWA**

Director  
Agricultural Chemicals Office, Plant Products Safety Division,  
Food Safety and Consumer Affairs Bureau  
Ministry of Agriculture, Forestry and Fisheries  
1-2-1 Kasumigaseki, Chiyoda-ku  
100-8950 Tokyo, Japan  
Tel: +81-3-3502-5969  
Fax: +81-3-3501-3774  
E-mail: [masahiro\\_segawa@nm.maff.go.jp](mailto:masahiro_segawa@nm.maff.go.jp)

**Mr Eiichi YOKOTA**

Assistant Director  
Ministry of Health, Labour and Welfare  
Department of Food Safety  
1-2-2 Kasumigaseki, Chiyoda-ku  
100-8916 Tokyo  
Japan  
Tel: +81-3-3595-2326  
Fax: +81-3-3503-7965  
E-mail: [codexj@mhlw.go.jp](mailto:codexj@mhlw.go.jp)

**Ms Asako OGAWA**

Assistant Director  
Ministry of Health, Labour and Welfare  
Department of Food Safety  
1-2-2 Kasumigaseki, Chiyoda-ku  
100-8916 Tokyo  
Japan  
Tel: +81-3-3595-2341  
Fax: +81-3-3501-4868  
E-mail: [codexj@mhlw.go.jp](mailto:codexj@mhlw.go.jp)

**Dr Satoru NEMOTO**

Section Chief  
National Institute of Health Sciences  
Division of Foods  
1-18-1, Kamiyoga  
158-8501 Setagaya-ku, Tokyo  
Japan  
Tel: 81-3-3700-1141  
Fax: 81-3-3700-9348  
E-mail: [nemoto@nihs.go.jp](mailto:nemoto@nihs.go.jp)

**Mr Makoto IRIE**

Deputy Director  
Agricultural Chemicals Office, Plant Products Safety Division,  
Food Safety and Consumer Affairs Bureau  
Ministry of Agriculture, Forestry and Fisheries  
1-2-1, Kasumigaseki, Chiyoda-ku  
100-8950 Tokyo, Japan  
Tel: +81-3-3502-5969  
Fax: +81-3-3501-3774  
E-mail: [makoto\\_irie@nm.maff.go.jp](mailto:makoto_irie@nm.maff.go.jp)

**Mr Yoshiyuki TAKAGISHI**

Section Chief  
Agricultural Chemicals Office, Plant Products Safety Division  
Food Safety and Consumer Affairs Bureau  
Ministry of Agriculture, Forestry and Fisheries  
1-2-1, Kasumigaseki, Chiyoda-ku  
100-8950 Tokyo, Japan  
Tel: +81-3-3502-5969  
Fax: +81-3-3501-3774  
E-mail: [yoshiyuki\\_takagishi@nm.maff.go.jp](mailto:yoshiyuki_takagishi@nm.maff.go.jp)

**Ms Atsuko HORIBE**

Deputy Director  
Risk Assessment Division  
Food Safety Commission Secretariat  
22nd Fl., Akasaka Park Bld., 5-2-20, Minato-ku  
107-6122 Tokyo  
Japan  
Tel: +81 3 6234 1165  
Fax: +81 3 3584 7391  
E-mail: [atsuko.horibe@cao.go.jp](mailto:atsuko.horibe@cao.go.jp)

**Mr Hiraku OHTA**

Officer  
Risk Assessment Division  
Food Safety Commission Secretariat  
22nd Fl., Akasaka Park Bld., 5-2-20, Minato-ku  
107-6122 Tokyo  
Japan  
Tel: +81 3 6234 1093  
Fax: +81 3 3584 7391  
E-mail: [hiraku.ota@cao.go.jp](mailto:hiraku.ota@cao.go.jp)

**KENYA****Ms Lucy Nancy Muthoni NAMU**

Technical Assistant to the Managing Director  
Kenya Plant Health Inspectorate Service  
P. O. Box 49592  
00100 GPO, Nairobi  
Kenya  
Tel: +254-020-3536171/2  
Fax: +254-02 3536175  
E-mail: [lnamu@kephis.org](mailto:lnamu@kephis.org)

**Mr Paul NGARUIYA**

Pesticide Registration Officer  
Pest Control Product Board  
Pesticide Registration  
13794-00800  
00800 Nairobi  
Kenya  
Tel: +254-024446115  
E-mail: [paul.ngaruiya12@yahoo.com](mailto:paul.ngaruiya12@yahoo.com)

**Mr Henry Kibet ROTICH**

Chief Manager-Research and Development  
Kenya Bureau of Standards  
Research and development  
P. O. Box 54974  
00200 Nairobi  
Kenya  
Tel: +254 026948000  
Fax: +254-02-609660  
E-mail: [rotichh@kebs.org](mailto:rotichh@kebs.org)

**LITHUANIA / LITHUANIE / LITUANIA****Mr Jeronimas MASKELIUNAS**

Chief Expert  
Ministry of Health  
Vilniaus str. 33  
LT-01506 Vilnius  
Lithuania  
Tel: +370 5 219 3339  
Fax: + 370 5 266 1402  
E-mail: [Jeronimas.Maskeliunas@sam.lt](mailto:Jeronimas.Maskeliunas@sam.lt)

**MALAWI****Mr Evans KAPEYA**

Registrar of Pesticides  
Pesticides Control Board  
Ministry of Agriculture and Food Security  
P O BOX 51300, Limbe, Malawi  
Tel: +265 888 878 490  
Fax: +265 1 471 312  
E-mail: [evanskapeya@gmail.com](mailto:evanskapeya@gmail.com)

**MALAYSIA / MALAISIE / MALASIA****Ms Nursiah MOHAMAD TAJOL AROS**

Director of Pesticide Control Division  
Department of Agriculture  
Pesticide Control Division  
4-6th Flrs, Wisma Tani, Jalan Sultan Salahuddin,  
50632 Kuala Lumpur, Malaysia  
Tel: +603 20301472  
Fax: +603 26917551  
E-mail: [nur.aros@gmail.com](mailto:nur.aros@gmail.com)

**Mr Ulah ANGGAT**

Principal Assistant Director / Senior Chemist  
Department of Agriculture  
Pesticide Control Division  
4-6th Flrs, Wisma Tani, Jalan Sultan Salahuddin,  
50632 Kuala Lumpur, Malaysia  
Malaysia  
Tel: +603 20301497  
Fax: +603 26917551  
E-mail: [ulahanggat@rocketmail.com](mailto:ulahanggat@rocketmail.com)

**MALI / MALÍ****Mr Sékouba KEITA**

Chef Division  
Agence Nationale de la Sécurité Sanitaire des Aliments  
Ministère de la Santé  
Centre Commercial, Rue 305 quartier du fleuve BPE: 2362,  
Bamako, Mali  
Tel: +223 20 22 0754  
Fax: +223 20 22 0747  
E-mail: [scodexmali@yahoo.fr](mailto:scodexmali@yahoo.fr)

**MOROCCO / MAROC / MARRUECOS****Mr Mustapha AARAR**

Chef de Division  
Etablissement Autonome de Contrôle et de Coordination des  
Exportations  
Département de l'Agriculture  
Numero 72, rue mohamed smiha  
Casablanca, Morocco  
Tel: +212522305104  
Fax: +212522305168  
E-mail: [aarar@eacce.org.ma](mailto:aarar@eacce.org.ma)

**Mr Ahmed ZOUAOUI**

Chef de Service Pesticides  
Laboratoire Officiel d'Analyses et de Recherches Chimiques  
Département de l'Agriculture  
N° 25 Rue Nichakra Rahal (Ex Rue de Tours)  
20110 Casablanca MOROCCO  
Tel: +212 5 22 30 21 96/98  
Fax: +212 5 22 30 19 72  
E-mail: [zouaouiloarc@yahoo.fr](mailto:zouaouiloarc@yahoo.fr)

**NETHERLANDS / PAYS-BAS / PAÍSES BAJOS****Mr Martijn MARTENA**

Policy Officer  
Ministry of Health, Welfare and Sport  
Department of Nutrition, Health Protection and Prevention  
P.O. Box 20350, 2500 EJ The Hague  
NETHERLANDS  
Tel: +31 70 340 5463  
E-mail: [mj.martena@minvws.nl](mailto:mj.martena@minvws.nl)

**Ms Erica MULLER**

Officer Plant Health  
Netherlands Food and Consumer Product Safety Authority (NVWA)  
P.O. Box 9201  
6700 HC Wageningen  
Netherlands  
Tel: +31 6 4615 5305  
E-mail: [e.muller@minlnv.nl](mailto:e.muller@minlnv.nl)

**NEW ZEALAND / NOUVELLE-ZÉLANDE / NUEVA ZELANDIA****Mr Warren HUGHES**

Principal Adviser ACVM Standards  
Ministry for Primary Industries  
Standards  
PO Box 2526  
6011 Wellington, New Zealand  
Tel: +64 4 8942560  
E-mail: [warren.hughes@mpi.govt.nz](mailto:warren.hughes@mpi.govt.nz)

**Ms Rebecca FISHER**

Regulatory Adviser  
Market Access Solutionz Ltd  
PO Box 10629  
Wellington, New Zealand  
Tel: +64-4-4736040  
E-mail: [Rebecca@solutionz.co.nz](mailto:Rebecca@solutionz.co.nz)

**Ms Nicola JOHNSON**

Director  
Market Access Solutionz Ltd  
PO Box 10629  
Wellington, New Zealand  
Tel: +64-4-4736040  
E-mail: [Nikki@solutionz.co.nz](mailto:Nikki@solutionz.co.nz)

**Mr Dave LUNN**

Principal Adviser (Residues)  
Ministry for Primary Industries  
Food & Environment Directorate  
25 The Terrace  
6140 Wellington, New Zealand  
Tel: +64-4-8942654  
E-mail: [dave.lunn@mpi.govt.nz](mailto:dave.lunn@mpi.govt.nz)

**NIGERIA / NIGÉRIA****Mr Adekunle ADEBAMBO**

Assistant Director  
Federal Ministry of Industry Trade and Investment (FMTI)  
Federal Produce Inspection Service  
FMTI, Area 1 Old Federal Secretariat, Garki, Abuja  
Nigeria  
Tel: +234-8032481788  
E-mail: [adebambo\\_adekunle@yahoo.com](mailto:adebambo_adekunle@yahoo.com)

**Ms Mojisola OLUFEMI AMORE**

Ag Director  
National Agency for Food and Drug Administration and Control  
(NAFDAC)  
PLOT 2032 Olusegun Obasanjo Way, Wuse Zone 7, Abuja  
Nigeria  
Tel: +234-8023137385  
E-mail: [amore.m@nafdac.gov.ng](mailto:amore.m@nafdac.gov.ng)

**Mr Julius Oreyemi APANISILE**

Director  
Federal Ministry of Industry Trade and Investment (FMTI)  
Federal Produce Inspection Service  
FMTI, Area 1 Old Federal Secretariat, Garki, Abuja  
Nigeria  
Tel: +234-8033124256  
E-mail: [mrapanisile@yahoo.com](mailto:mrapanisile@yahoo.com)



**Mr David Ehiabhi ERABHAHIEMEN**

Deputy Director  
Federal Ministry of Science and Technology (FMST)  
Federal Secretariat Complex Phase II, Maitama, Abuja  
Abuja  
Nigeria  
Tel: +2348036092283  
E-mail: [davideraa@yahoo.com](mailto:davideraa@yahoo.com)

**Ms Omolara Abiodun FASANMI**

Senior Scientific Officer  
Federal Ministry of Agriculture and Rural Development  
Area 11, Abuja. +234 Abuja, Nigeria  
Tel: +234-8065315605  
E-mail: [faslara27@yahoo.com](mailto:faslara27@yahoo.com)

**Mr Kush Peter KUKWI**

Principal Veterinary Officer II  
Nigeria Agricultural Quarantine Service  
81 Raph Shodeinde Street, Central Area, Abuja  
+234 Abuja, Nigeria  
Tel: +234-8023775828, +234-80365539  
E-mail: [kush\\_peter@yahoo.com](mailto:kush_peter@yahoo.com)

**Mr Berthrand Ikechukwu URULOR**

Chief Laboratory Technologist  
National Agency for Food and Drug Administration and Control  
(NAFDAC)  
PLOT 2032 Olusegun Obasanjo Way, Wuse Zone 7, Abuja  
Tel: +234 8037584580  
E-mail: [urulor.i@nafdac.gov.ng](mailto:urulor.i@nafdac.gov.ng)

**NORWAY / NORVÈGE / NORUEGA****Ms Torhild COMPAORE**

Adviser  
Norwegian Food Safety Authority  
P.O. Box 383  
N-2381 Brumunddal, Norway  
E-mail: [totco@mattilsynet.no](mailto:totco@mattilsynet.no)

**PERU / PÉROU / PERÚ****Ms Mirna ZUZUNAGA**

Especialista en Inocuidad Agroalimentaria  
Servicio Nacional de Sanidad Agraria - SENASA  
Dirección de Inocuidad Agroalimentaria  
Av. La Molina N° 1915  
511 Lima, Perú  
Tel: 511 313 3300  
Fax: 511 340 1486  
E-mail: [mzuzunaga@senasa.gob.pe](mailto:mzuzunaga@senasa.gob.pe)

**POLAND / POLOGNE / POLONIA****Ms Jolanta IWANICKA**

I Secretary  
Embassy of the Republic of Poland in Beijing  
1 Ri Tan Lu Jianguomenwai  
100600 Beijing  
Tel: +8610 6532 1235  
Fax: +8610 6532 1745  
E-mail: [jolanta.iwanicka@msz.gov.pl](mailto:jolanta.iwanicka@msz.gov.pl)

**REPUBLIC OF KOREA / RÉPUBLIQUE DE CORÉE / REPÚBLICA DE COREA****Dr Moo-Hyeog IM**

Deputy Director  
Food Standard Department  
Ministry of Food and Drug Safty  
643 Yeonjeri, Kangoimyeon, Cheonggun  
363-951 Chungcheongbukdo  
Republic of Korea  
Tel: +82-43-719-2416  
Fax: +82-43-719-2400  
E-mail: [imh0119@korea.kr](mailto:imh0119@korea.kr)

**Ms Jin Young SHIN**

Reseacher  
Livestock Product Standard Division  
Ministry of Food and Drug Safety  
Osong Health Technology Administration Complex,  
187 Osongsaengmyeong2 (i)-ro, Osong-eup, Ch  
363-700  
Republic of Korea  
Tel: 82-43-719-3857  
Fax: 82-43-719-3850  
E-mail: [novice2002@korea.kr](mailto:novice2002@korea.kr)

**Ms Minjung WIE**

Codex Rerearcher  
Ministry of Food and Drug Safty  
Food Standard Division, Food Standard Department  
643 Yeonjeri, Kangoimyeon, Cheonggun  
363-951 Chungcheongbukdo  
Republic of Korea  
Tel: +82-43-719-2436  
Fax: +82-43-719-2400  
E-mail: [fairywe@korea.kr](mailto:fairywe@korea.kr)

**Ms Kyeong-Ae SON**

Researcher  
 Rural Development Administration  
 Agro-Materials safety Evaluation Division  
 126 Suin-Ro Kweonseonku  
 441-707 Suwon  
 Republic of Korea  
 Tel: 82-31-290-0577  
 Fax: 82-31-290-0508  
 E-mail: [sky199@korea.kr](mailto:sky199@korea.kr)

**Ms WanHee SEO**

Assistant Director  
 National Agricultural Products Quality Management Service  
 800 ImBangUI-DaeRO, Gwang San-Gu  
 506-824 Gwangju  
 Republic of Korea  
 Tel: +82-62-970-6255  
 Fax: +82-62-970-6221  
 E-mail: [swh7693@korea.kr](mailto:swh7693@korea.kr)

**Ms Mi-Gyung LEE**

Professor  
 Andong National University  
 Department of Food Science and Biotechnology, Andong National  
 University, #1375 Gyeongdong-ro  
 760-749 Andong-si, Gyeongsangbuk-do  
 Republic of Korea  
 Tel: +82-54-820-6011  
 Fax: +82-54-820-6264  
 E-mail: [leemig@andong.ac.kr](mailto:leemig@andong.ac.kr)

**Mr Joong Keun LEE**

Manager  
 KHIDI  
 Food Industry Policy  
 363-700  
 Osong Health Technology Administration Complex, 187 Osongsae  
 Chungcheongbuk-do  
 Republic of Korea  
 Tel: 82-43-713-8488  
 Fax: 82-43-713-8907  
 E-mail: [leejk@khidi.or.kr](mailto:leejk@khidi.or.kr)

**Dr In Ho BAEG**

Laboratory Director  
 Korea ginseng Corporation  
 ginseng resource research laboratory  
 30, Gajeong-ro, Yuseong-gu, Daejeon  
 305-805  
 Tel: 1054212992  
 E-mail: [ginsengking@kqc.or.kr](mailto:ginsengking@kqc.or.kr)

**REPUBLIC OF MOLDOVA / RÉPUBLIQUE DE MOLDOVA /  
 REPÚBLICA DE MOLDOVA**

**Mr Iurie PINZARU**

Deputy Director  
 Ministry of Health  
 National Center of Public Health  
 67a Gheorghe Asachi str  
 MD-2028 Chisinau  
 Republic of Moldova  
 Tel: +373 022 574 502  
 Fax: +373 022 72 97 25  
 E-mail: [iurie\\_pinzaru@cns.md](mailto:iurie_pinzaru@cns.md), [codex@cns.md](mailto:codex@cns.md)

**SAUDI ARABIA / ARABIE SAOUDITE / ARABIA SAUDITA**

**Mr Hamad ALBAGIEH**

Food- Specifications Specialist  
 Saudi Food and Drug Authority  
 Department of Technical Regulations & standards  
 3292 North Ring road Al Nafel Area Unit (1)  
 13312 – 6288 Riyadh  
 Saudi Arabia  
 Tel: +966 1 275 9222 Ext:3331  
 Fax: +966 1 2751282  
 E-mail: [codex.cp@sFDA.gov.sa](mailto:codex.cp@sFDA.gov.sa)  
[HMBagieh@sFDA.gov.sa](mailto:HMBagieh@sFDA.gov.sa)

**Mr Saleh ALKHOWAUTIM**

Senior Pesticides Specialist  
 Saudi Food and Drug Authority  
 Executive Department for Pesticide  
 3292 North Ring road Al Nafel Area Unit (1)  
 13312 – 6288 Riyadh  
 Saudi Arabia  
 Tel: +966 1 275 9222 Ext:3331  
 Fax: +966 1 2751282  
 E-mail: [codex.cp@sFDA.gov.sa](mailto:codex.cp@sFDA.gov.sa)

**SENEGAL / SÉNÉGAL****Mr Mamadou FALL**

Université cheikh Anta Diop  
Laboratoire de Toxicologie  
BP 25064 DK Fann  
Tel: (221)774 54 99 00  
E-mail: [madoufal@gmail.com](mailto:madoufal@gmail.com)

**SIERRA LEONE****Dr Ibrahim M.O. SHAMIE**

Director of Crops  
Ministry of Agriculture Forestry and Food Security  
Youyi Building, Freetown  
Tel: +232 78542939  
E-mail: [ibrahimshamie@gmail.com](mailto:ibrahimshamie@gmail.com)  
[slnppo@yahoo.com](mailto:slnppo@yahoo.com)

**SINGAPORE / SINGAPOUR / SINGAPUR****Dr Yuan SHENG WU**

Deputy Director  
Agri-Food & Veterinary Authority of Singapore  
Laboratories Group, VPHL Chemistry Department  
10 Perahu Road  
718837 Singapore  
Singapore  
Tel: +6567952837  
Fax: +6568619491  
E-mail: [wu\\_yuan\\_sheng@ava.gov.sg](mailto:wu_yuan_sheng@ava.gov.sg)

**Mr Mun Choy, Joachim CHUA**

Senior Scientist  
Agri-Food & Veterinary Authority of Singapore  
Laboratories Group, VPHL Chemistry Department  
10 Perahu Road  
718837 Singapore  
SINGAPORE  
Tel: +6567952818  
Fax: +6568619491  
E-mail: [joachim\\_chua@ava.gov.sg](mailto:joachim_chua@ava.gov.sg)

**SLOVAKIA / SLOVAQUIE / ESLOVENIA****Mr Vladimír PRISTAŠ**

First Secretary  
The Embassy of the Slovak Republic  
Trade and Economic Section  
Ritan Lu, Jianguomen Wai  
100 600 Beijing  
China  
Tel: 00861065321530  
Fax: 00861065321530  
E-mail: [vladimir.pristas@mzv.sk](mailto:vladimir.pristas@mzv.sk)

**SPAIN / ESPAGNE / ESPAÑA****Mr Cesar CASADO DE SANTIAGO**

Head of Service  
Spanish Food Safety and Nutrition Agency  
Pesticide Residues in Food  
C\ Alcalá, 56  
28071 Madrid, Spain  
Tel: +34 91 338 0620  
E-mail: [ccasado@msssi.es](mailto:ccasado@msssi.es)

**SUDAN / SOUDAN / SUDÁN****Ms Nour GRASHI**

Head of conformity assessment  
Pesticide Specialist  
Sudanese Standard & Metrology Organization  
Gama St Sudanese Standard & Metrology Organization, Sudan  
Tel: 249912367408  
Fax: 24983765726  
E-mail: [nourssmo2009@hotmail.com](mailto:nourssmo2009@hotmail.com)

**Ms Afag MOHAMED ALMAHY**

Agriculture Engineer  
Sudanese Standards & Metrology Organization  
Standards Department  
Sudanese Standards & Metrology Organization/Khartoum  
+249 Khartoum  
Sudan  
Tel: +2499  
Fax: +249-83-765726  
E-mail: [afaggoodluck@hotmail.com](mailto:afaggoodluck@hotmail.com)

**SWEDEN / SUÈDE / SUECIA****Ms Cecilia DAHLBERG**

Principal Regulatory Officer  
National Food Agency  
Food Standards Department  
Box 622  
SE-75126 Uppsala  
Sweden  
E-mail: [codex.sweden@slv.se](mailto:codex.sweden@slv.se)

**Ms Carmina IONESCU**

Codex coordinator  
National Food Agency  
Food Standard Department  
P.O. Box 622  
SE-75126 Uppsala  
Sweden  
Tel: 4618175500  
Fax: 4618175310  
E-mail: [Codex.Sweden@slv.se](mailto:Codex.Sweden@slv.se)

**SWITZERLAND / SUISSE / SUIZA****Ms Lucia KLAUSER**

Scientific Officer  
Consumer Protection Directorate  
Federal Office of Public Health  
Schwarzenburgstr. 165  
3003 Bern  
Switzerland  
Tel: +41 31 322 95 69  
Fax: +41 31 322 95 74  
E-mail: [lucia.klauser@bag.admin.ch](mailto:lucia.klauser@bag.admin.ch)

**Ms Pascale BENSMAN**

Nestec Ltd  
Corporate Regulatory & Scientific Affairs  
Avenue Nestlé 55  
1800 Vevey  
Switzerland  
Tel: + 41 21 924 78 82  
E-mail: [Pascale.Bensman@purina.nestle.com](mailto:Pascale.Bensman@purina.nestle.com)

**Mr Henri DISERENS**

Nestlé Research Center  
Post Box 44  
1000 Lausanne 26  
Switzerland  
Tel: +41 21 785 82 39  
Fax: +41 21 785 85 53  
E-mail: [henri.diserens@rdls.nestle.com](mailto:henri.diserens@rdls.nestle.com)

**Mr Neil GREENER**

Syngenta Crop Protection AG  
Schwarzwaldallee 215  
4002 Basel  
Switzerland  
Tel: +41 61 323 94 10  
E-mail: [neil.greener@syngenta.com](mailto:neil.greener@syngenta.com)

**THAILAND / THAÏLANDE / TAILANDIA****Ms Manthana MILNE**

Deputy Director General  
Department of Agriculture  
Ministry of Agriculture and Cooperatives  
50 Phaholyothin Rd.  
10900 Bangkok, Thailand  
Tel: +662 579 0151  
E-mail: [manthana2001@yahoo.com](mailto:manthana2001@yahoo.com)

**Ms Prapassara PIMPAN**

Senior Expert in Pesticides  
Department of Agriculture  
Ministry of Agriculture and Cooperatives  
50 Phaholyothin Rd.  
Bangkok 10900  
Thailand  
Tel: + 662 579 3577 ext.2310  
Fax: + 662 561 4695  
E-mail: [ppimpan04@yahoo.com](mailto:ppimpan04@yahoo.com)

**Ms Chitra SETTAUDOM**

Senior Advisor in Standards of Health Products  
Food and Drug Administration  
Ministry of Public Health  
11000 Nonthaburi, Thailand  
Tel: +66 (2) 590 7055  
Fax: +66 (2) 591 8446  
E-mail: [schitra@fda.moph.go.th](mailto:schitra@fda.moph.go.th)

**Mr Pisan PONGSAPITCH**

Director, Office of Standards Development  
National Bureau of Agricultural Commodity and Food Standards  
Ministry of Agriculture and Cooperatives  
50 Phaholyothin Road, Lad Yao, Chatuchak  
10900 Bangkok, Thailand  
Tel: 662-561-3390  
Fax: 662-561-3357  
E-mail: [codex@acfs.go.th](mailto:codex@acfs.go.th)

**Ms Ing-Orn PANYAKIT**

Standard officers, Senior Professional Level  
 National Bureau of Agricultural Commodity and Food Standards  
 Ministry of Agriculture and Cooperatives  
 50 Phaholyothin Rd., Ladyao, Chatuchak  
 10900 Bangkok, Thailand  
 Tel: 662-561-2277 ext 1423  
 Fax: 662-561-3357  
 E-mail: [ingorn2011@gmail.com](mailto:ingorn2011@gmail.com)

**Ms Sudarat KUEYLAW**

Veterinarian, Senior Level  
 Department of Livestock Development, Bureau of Livestock Standards  
 and Certification  
 Ministry of Agriculture and Cooperatives  
 69/1 Phayathai Road,  
 10400 Bangkok, Thailand  
 Tel: +66 2653 4444 ext 3126  
 Fax: +66 2653 4917  
 E-mail: [wasankueylaw@yahoo.com](mailto:wasankueylaw@yahoo.com)

**Ms Nuansri TAYAPUTCH**

Consultant  
 Central Laboratory, Thailand  
 Inside Kasetsart University  
 Tel: 662 5798482  
 E-mail: [nuantaya@hotmail.com](mailto:nuantaya@hotmail.com)

**Mr Charoen KAOWSUKSAI**

Deputy Secretary General  
 The Federation of Thai Industries  
 Queen Sirikit National Convention Center  
 10110 Bangkok, Thailand  
 Tel: + 668 7828 7658  
 Fax: + 662 941 1267  
 E-mail: [charoen@cpram.co.th](mailto:charoen@cpram.co.th)

**TRINIDAD AND TOBAGO / TRINITÉ-ET-TOBAGO / TRINIDAD Y TOBAGO****Mr Imtiaz HYDER ALI**

Food and Drugs Inspector  
 Ministry of Health, Chemistry, Food and Drugs Division  
 Park Street, Port of Spain  
 Trinidad and Tobago  
 Tel: 01 828 623 5242  
 Fax: 01 828 624 2477  
 E-mail: [Imtiaz.Ali@health.gov.tt](mailto:Imtiaz.Ali@health.gov.tt)

**UGANDA / OUGANDA****Dr Muhindo JEANNE BUKEKA**

Drug Information (Veterinary Pharmacovigilance & Chemical Trials)  
 Officer  
 National Drug Authority  
 PLOT 46/48 Lumumba Avenue  
 P.O BOX 23096, Kampala  
 Uganda  
 E-mail: [jmbukeka@nda.or.ug](mailto:jmbukeka@nda.or.ug) [mjeannebukeka@gmail.com](mailto:mjeannebukeka@gmail.com)

**UNITED REPUBLIC OF TANZANIA /****RÉPUBLIQUE-UNIE DE TANZANIE /****REPÚBLICA UNIDA DE TANZANÍA****Ms Ugullum Nuhu CHARYS**

Director of Laboratory Services  
 Tanzania Food and Drugs Authority  
 Laboratory Services  
 P. O BOX 77150  
 Dar Es Salaam  
 United Republic of TanzaniaA  
 Tel: +255 22 2450512  
 Fax: +255 22 2450793  
 E-mail: [cha\\_ug@yahoo.com](mailto:cha_ug@yahoo.com)

**Ms Lilian GABRIEL**

Standards Officer  
 Tanzania Bureau of Standards  
 Standards Development  
 P.o Box 9524  
 Dar Es Salaam  
 United Republic of Tanzania  
 Tel: +255755260000  
 Fax: +255222450959  
 E-mail: [lyngebo@yahoo.com](mailto:lyngebo@yahoo.com)

**Mr Bakari SALIM KIONDO KAONEKA**

Registrar of Pesticides - Tanzania  
 Tropical Pesticides Research Institute  
 P.O BOX 3024  
 +255 Arusha  
 United Republic of Tanzania  
 Tel: +255 7544 76346  
 Fax: +255 2725 08217  
 E-mail: [kaonekab@yahoo.com](mailto:kaonekab@yahoo.com)

**UNITED STATES OF AMERICA / ÉTATS-UNIS D'AMÉRIQUE /  
ESTADOS UNIDOS DE AMÉRICA****Ms Lois ROSSI**

Head of US Delegation  
Director, Registration Division  
U.S. Environmental Protection Agency  
Office of Pesticide Programs  
1200 Pennsylvania Ave, 7505 PY  
20460 Washington, DC  
United States of America  
Tel: +1-703-308-8162  
Fax: +1-703-305-6920  
E-mail: [rossi.lois@epa.gov](mailto:rossi.lois@epa.gov)

**Dr Parthapratim BASU**

Senior Leader  
- Chemistry/Toxicology& Related Sciences  
Office of Public Health and Science,  
Food Safe and Inspection Service  
U.S. Department o Agriculture  
1400 Independence Ave. SW, PP3 PP3-Rm. 9-205  
Washington, DC 20250-3766  
United States of America  
Tel: 202-690-6558  
Fax: 202-690-2364  
E-mail: [pat.basu@fsis.usda.gov](mailto:pat.basu@fsis.usda.gov)

**Dr Lori BERGER**

Executive Director  
California Specialty Crops Council  
4500 S. Laspina, Suite 214  
93274 Tulare, California  
United States of America  
Tel: 559-688-5700  
Fax: 559-688-5527  
E-mail: [lori@specialtycrops.org](mailto:lori@specialtycrops.org)

**Ms Kimberly BERRY**

Senior Manager Regulatory Analysis and Data Services  
Bryant Christie Inc.  
500 Union Street, Suite 701 98101 Seattle  
United States of America  
Tel: 206-292-6340  
Fax: 206-292-6341  
E-mail: [kimb@bryantchristie.com](mailto:kimb@bryantchristie.com)

**Mr Raúl GUERRERO**

Consultant  
793 N. Ontare Road  
93105 Santa Barbara, CA  
United States of America  
Tel: +18058981830  
Fax: +18058981830  
E-mail: [guerrero\\_raul\\_i@yahoo.com](mailto:guerrero_raul_i@yahoo.com)

**Dr Jamin HUANG**

Senior Regulatory Manager  
Bayer CropScience  
Regulatory Affairs  
2. T.W. Alexander Drive  
27709 Research Triangle Park, North Carolina  
United States of America  
Tel: 919-549-2634  
E-mail: [jamin.huang@bayer.com](mailto:jamin.huang@bayer.com)

**Dr Daniel KUNKEL**

Associate Director  
Rutgers University  
IR-4 Program  
500 College Road East, 201W  
08540 Princeton  
United States of America  
Tel: 732 932 9575 x 4616  
Fax: 609 514 2612  
E-mail: [kunkel@aesop.rutgers.edu](mailto:kunkel@aesop.rutgers.edu)

**Dr Young LEE**

Regulatory Scientist  
U.S. Food and Drug Administration  
CFSAN/OFS  
5100 Paint Branch Pkwy  
College Park, MD20740  
United States of America  
Tel: 1-240-402-1943  
Fax: 1-301-436-2632  
E-mail: [Young.Lee@fda.hhs.gov](mailto:Young.Lee@fda.hhs.gov)

**Ms Barbara MADDEN**

Minor Use Officer  
U.S. Environmental Protection Agency  
Office of Pesticide Programs, Registration Division  
1200 Pennsylvania Ave., N.W.  
20460 Washington DC  
United States of America  
Tel: 11 703 305 6463  
Fax: 11 703 605 0781  
E-mail: [madden.barbara@epa.gov](mailto:madden.barbara@epa.gov)

**Ms Caitrin MARTIN**

Agricultural Scientific Specialist  
USDA Foreign Agricultural Service  
International Regulations and Standards  
1400 Independence Ave, SW  
20250 Washington DC  
United States of America  
Tel: 2027205461  
E-mail: [caitrin.martin@fas.usda.gov](mailto:caitrin.martin@fas.usda.gov)

**Dr Douglas NELSON**

Senior Advisor for Trade, Intellectual Property & Strategic Issues  
CropLife America  
Legal  
1156 15th Street NW Suite 400  
20005 Washington D.C.  
United States of America  
Tel: 2028723880  
Fax: 2023551417  
E-mail: [dnelson@croplifeamerica.org](mailto:dnelson@croplifeamerica.org)

**Ms Cynthia SMITH**

Senior Vice President  
AMVAC  
Director of Global Regulatory  
4695 MacArthur Court, Suite 1200  
92660 Newport Beach  
United States of America  
Tel: 949-221-6126  
Fax: 949-221-6176  
E-mail: [Cindys@amvac-chemical.com](mailto:Cindys@amvac-chemical.com)

**Dr Ronald WILLIAMS**

Principal Scientist, Scientific and Regulatory Affairs  
The Coca-Cola Company  
Corporate Scientific and Regulatory Affairs  
PO Box 1734  
30301 Atlanta  
United States of America  
Tel: 01 404 676 7035  
E-mail: [ronaldwilliams@coca-cola.com](mailto:ronaldwilliams@coca-cola.com)

**VIET NAM****Ms Ha NGUYEN**

Deputy Head of Vietnam Codex Office  
Vietnam Codex Office  
Vietnam Food Administration  
135 Nui Truc Street  
84 4 Hanoi  
Viet Nam  
Tel: 84 4 38464489 (ext. 3070)  
Fax: 84 4 38463739  
E-mail: [codexvn@vfa.gov.vn](mailto:codexvn@vfa.gov.vn)

**Ms Hang NGUYEN**

Officer  
Food Standard and Analysis Management Division  
Vietnam Food Administration  
135 Nui Truc Street  
844 Hanoi  
Viet Nam  
Tel: 84 4 38464489 (ext. 5010)  
Fax: 84 4 38463739  
E-mail: [thiviethangnguyen@gmail.com](mailto:thiviethangnguyen@gmail.com)

**YEMEN / YÉMEN****Mr Naeem ABDULLAH**

Head of Pesticides Residue Lab  
Ministry of Agriculture & Irrigation  
Crop Protection  
Sanaa Hadah ST  
Tel: 00967 771181830  
E-mail: [residue\\_masood@yahoo.com](mailto:residue_masood@yahoo.com)

**ZIMBABWE****Mr Livingstone Munyaradzi MUSIYAMBIRI**

Director  
 Ministry of Health and Child Welfare  
 Government Analyst Laboratory  
 P.O.Box CY231, Causeway  
 Harare  
 Zimbabwe  
 Tel: +2634792026/7

E-mail: [mlmusiyambiri@yahoo.com](mailto:mlmusiyambiri@yahoo.com)

**INTERNATIONAL ORGANIZATIONS****ORGANIZACIONES INTERNACIONALES****INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA) /****AGENCE INTERNATIONALE DE L'ÉNERGIE ATOMIQUE (AIEA)****AGENCIA INTERNACIONAL DE LA ENERGÍA ATÓMICA (AIEA)****Mr James SASANYA**

Food safety Specialist (Veterinary Drugs)  
 JOINT FAO / IAEA Division of Nuclear Techniques in Food and  
 Agriculture  
 P.O. Box 100, Wagramerstrase 5  
 A-1400 Viena  
 Austria  
 Tel: +43 1 2600 26058

E-mail: [j.sasanya@iaea.org](mailto:j.sasanya@iaea.org)

**CROPLIFE INTERNATIONAL****Ms Kiyo ASHIBE**

Registration and RC Department  
 Kyoyu Agri Co., Ltd.  
 Yamaman Bldg. 11F. 6-1 Koami-cho, Nihonbashi, Chuo-ku  
 103-0016 Tokyo  
 Japan  
 Tel: 00 81 3-5645-0708  
 Fax: 00 81 3-3639-5299  
 E-mail: [ashibe-kiyo@kyoyu-agri.co.jp](mailto:ashibe-kiyo@kyoyu-agri.co.jp)

**Ms Changhee BAEK**

Zone Regulatory Manager, ASEAN  
 FMC Chemical (Thailand) Ltd  
 15F, K Tower, Tower A, 209 Sukhumvit 21, Klongtoey nua  
 10110 Bangkok  
 Thailand  
 Tel: 00 66 2 664 4322  
 Fax: 00 66 2 664 1326  
 E-mail: [changhee.baek@fmc.com](mailto:changhee.baek@fmc.com)

**Mr Philip Anthony BRINDLE**

Global MRLs & Import Tolerances  
 BASF  
 26 Davis Drive  
 27709 Durham NC  
 United States of America  
 Tel: 00 1 919 547 2654  
 Fax: 00 1 919 547 2850  
 E-mail: [philip.brindle@basf.com](mailto:philip.brindle@basf.com)

**Dr Peter CHALMERS**

Head Of Development and Registration  
 Makhteshim Agan Asia Pacific  
 9 Temasek Boulevard, #16-03A, Suntec Tower Two  
 038989 Singapore  
 SINGAPORE  
 Tel: 00 65 64999326  
 Fax: 00 65 92320950  
 E-mail: [peter.chalmers@ma-apac.com](mailto:peter.chalmers@ma-apac.com)

**Ms Kar Ling CHIN**

Manager, Regulatory Affairs and Risk Assessment, Asia Pacific  
 Janssen PMP, a division of Johnson & Johnson Pte Ltd  
 No. 2 International Business Park, Tower One, The Strategy, #07-01  
 609930 Singapore  
 Singapore  
 Tel: 00 65 68275858  
 Fax: 00 65 67200285  
 E-mail: [kchin5@its.inj.com](mailto:kchin5@its.inj.com)

**Mr Kenneth CHISHOLM**

Vice President, Development  
 Nichino America  
 4550 New Linden Hill Rd, Suite 501  
 19808 Wilmington, DE  
 United States of America  
 Tel: 00 1 302 636 9001  
 Fax: 00 1 302 636 9122  
 E-mail: [kchiz@nichino.net](mailto:kchiz@nichino.net)

**Mr Ma CHOON KWONG**

Registration and Regulatory Affairs Manager-ASEAN  
 DuPont Company (Singapore) Pte Ltd  
 1 HarbourFront Place #11-01, HarbourFront Tower One  
 Singapore 098633  
 Singapore  
 Tel: 00 65 65863019  
 Fax: 00 65 65863494  
 E-mail: [choon-kwong.ma@dupont.com](mailto:choon-kwong.ma@dupont.com)



**Mr John CUFFE**

Global Leader, Regulatory Sciences & Government Affairs  
Dow AgroSciences LLC  
9330 Zionsville Road  
46268-1054 Indianapolis, IN  
United States of America  
Tel: 00 1 317 337 4975  
Fax: 00 1 317 337 3252  
E-mail: [jcuffe@dow.com](mailto:jcuffe@dow.com)

**Mr Fang DONG**

Nihon Nohyaku CO., LTD.  
Overseas Division, Marketing&Technical Support DEPT.  
19-8, Kyobashi 1-chome, chuo-ku  
104-8386 Tokyo  
Japan  
Tel: 00 81 -3-6361-1425  
Fax: 00 81 3-6361-1451  
E-mail: [Tou-hou@nichino.co.jp](mailto:Tou-hou@nichino.co.jp)

**Mr Kazuyuki FUKUSHIMA**

Regulatory Affairs Division Biosciences Sales & Marketing  
Ishihara Sangyo Kaisha, Ltd  
3-15, Edobori 1-Chome, Nishi-ku  
550-0002 Osaka  
Japan  
Tel: 00 81 6-6444-7154  
Fax: 00 81 6-6444-7154  
E-mail: [k-fukushima@iskweb.co.jp](mailto:k-fukushima@iskweb.co.jp)

**Mr Richard Peter GARNETT**

Global Chemistry Regulatory Affairs Strategy Lead  
Monsanto  
270-272 avenue de Tervueren  
1150 Brussels  
Belgium  
Tel: 00 32 2 776 7614  
Fax: 00 32 2 776 7642  
E-mail: [Richard.p.garnett@monsanto.com](mailto:Richard.p.garnett@monsanto.com)

**Mr William GOODWINE**

Director WW Regulatory Affairs & Risk Assessment  
Janssen PMP  
1125 Trenton-Harbourton Rd  
NJ 08560 Titusville  
United States of America  
Tel: 00 1 609 730 2607  
Fax: 00 1 609 730 3092  
E-mail: [bgoodwi@its.jnj.com](mailto:bgoodwi@its.jnj.com)

**Ms Chishio HIDAKA**

China and South Asia, Regulatory Affairs  
Arysta LifeScience Corp.  
38F, St. Luke's Tower, 8-1, Akashicho, Chuoku  
Tokyo  
Japan  
Tel: 00 66 -81-9327114  
Fax: 00 66 2-667-0101  
E-mail: [chishio.hidaka@arysta.com](mailto:chishio.hidaka@arysta.com)

**Mr Ricky HO**

Head of Regulatory Affairs, Asian Pacific  
Bayer (South East Asia) Pte Ltd  
53 Chulia Street, 14th Floor, OCBC Centre East  
049514 Singapore  
Singapore  
Tel: 00 65 64961719  
Fax: 00 65 64961494  
E-mail: [ricky.ho@bayer.com](mailto:ricky.ho@bayer.com)

**Ms Haruka HORIUCHI**

Supervisor  
DuPont  
Registration & Regulatory Affairs, Research & Development  
11-1, Nagata-cho, 2-chome, Chiyoda-ku  
100-6111 Tokyo  
Japan  
Tel: +81 3 3-5521-8417  
Fax: +81 3-5521-2470  
E-mail: [haruka.horiuchi@dupont.com](mailto:haruka.horiuchi@dupont.com)

**Mr Peter HORNE**

Global Regulatory Affairs Manager  
DuPont Crop Protection Products  
Stine-Haskell Research Center, 1090 Elkton Rd.  
19711 Newark, DE  
United States of America  
Tel: 00 1 302 366 6228  
Fax: 00 1 302 351 7022  
E-mail: [peter.home-1@usa.dupont.com](mailto:peter.home-1@usa.dupont.com)

**Mr Mitsuhiro ICHINARI**

Product Promotion Dept., Acting General Manager  
Summit Agro International Ltd  
1-8-12, Harumi, Chuo-ku  
104-6223 Tokyo  
Japan  
Tel: 00 81 3-6221-3224  
Fax: 00 81 3-6221-3035  
E-mail: [mitsuhiro.ichinari@summit-agro.co.jp](mailto:mitsuhiro.ichinari@summit-agro.co.jp)

**Mr Kasuaki IJIMA**

Chief-Chemistry Division  
The Institute of Environmental Toxicology  
4321 Uchimoriya, Joso-shi  
303-0043 Ibaraki  
Japan  
Tel: 00 81-297-27-4516  
Fax: 00 81 -297-27-4517  
E-mail: [ijima@iet.or.jp](mailto:ijima@iet.or.jp)

**Mr Naoto IKEGAMI**

Regulatory Affairs Dept. / Manager  
Nippon Soda Co. Ltd.  
2-1, Ohtemachi 2-chome, Chiyoda-ku  
Tokyo  
Japan  
Tel: 00 81 80-5987-5487  
Fax: 00 81 3-3245-6289  
E-mail: [n.ikegami@nippon-soda.co.jp](mailto:n.ikegami@nippon-soda.co.jp)

**Ms Heidi IRRIG**

Regulatory Manager  
Syngenta  
410 Swing Road  
NC 27409 Greensboro  
United States of America  
Tel: 00 1 336-632-7243  
Fax: 00 1 336-632-5688  
E-mail: [heidi.irrig@syngenta.com](mailto:heidi.irrig@syngenta.com)

**Mr Michael KAETHNER**

Bayer CropScience  
Development Affairs  
Alfred-Nobel Strasse, 50  
40789 Monheim  
Germany  
Tel: 00492173387521  
Fax: 00492173383572  
E-mail: [michael.kaethner@bayer.com](mailto:michael.kaethner@bayer.com)

**Mr Masanori KAI**

Manager, Product Registration, Regulatory Affairs,  
Agricultural Division  
Nissan Chemical Industries, Ltd.  
3-7-1, Kandnishiki-cho, Chiyoda-ku  
101-0054 Tokyo  
JAPAN  
Tel: 00 81 3-3296-8151  
Fax: 00 81 3-3296-8016  
E-mail: [kai@nissanchem.co.jp](mailto:kai@nissanchem.co.jp)

**Mr Yukio KIMUR**

Manager, Regulatory Affairs Unit, Research & Development Division  
Nihon Nohyaku CO., LTD.  
19-8, Kyobashi 1-chome, chuo-ku  
104-8388 Tokyo  
Japan  
Tel: 00 81 3 6361 1411  
Fax: 00 81 3 6361 1451  
E-mail: [kimura-yukio@nichino.co.jp](mailto:kimura-yukio@nichino.co.jp)

**Mr Mitsuhiro KISHIDA**

General Manager  
Nihon Nohyaku CO., LTD.  
Overseas Division, Marketing & Technical Support DEPT.  
19-8, Kyobashi 1-chome, chuo-ku  
104-8386 Tokyo  
Japan  
Tel: 00 81 3-6361-1425  
Fax: 00 81 -3-6361-1451  
E-mail: [Kishida-mitsuhiro@nichino.co.jp](mailto:Kishida-mitsuhiro@nichino.co.jp)

**Ms Takako KUMETA**

Manager, Registration & Regulatory Affairs Department  
Mitsui Chemicals Agro, Inc.  
1144, Togo, Mobara-shi  
297-0017 Chiba  
Japan  
Tel: 00 81 475-25-6742  
Fax: 00 81 475-23-8297  
E-mail: [Takako.Kumeta@mitsui-chem.co.jp](mailto:Takako.Kumeta@mitsui-chem.co.jp)

**Mr Neil John LISTER**

Technical Manager, Operator and Consumer Safety  
Syngenta  
Jealott's Hill Research Centre, Bracknell  
RG42 6EY Berkshire  
United Kingdom  
Tel: 00 44 1344 414381  
E-mail: [neil.lister@syngenta.com](mailto:neil.lister@syngenta.com)

**Ms Carrie LOU**

Registration Manager China  
Makhteshim Agan Industries China  
17F Hyundai Motor Tower, 38 Xiaoyun Road, Chaoyang District  
100027 Beijing  
China  
Tel: 00 86 1064108485  
E-mail: [carrie.l@mai-china.com](mailto:carrie.l@mai-china.com)

**Ms Wanda MOYA-GIMENEZ**

Food Value Chain Manager – Latin America  
BASF  
Avenida das Nações Unidas14.171  
CEP 04794-000 Sao Paulo  
Brazil  
Tel: 00 55 11 - 2039-2760  
Fax: 00 55 11 2039-2285  
E-mail: [wanda.gimenez@basf.com](mailto:wanda.gimenez@basf.com)

**Ms Tomoko MURAKI**

Regulatory Affairs Department Research • Development Division  
Manager  
SDS Biotech K.K.  
1-1-5, Higashi-Nihombashi, Chuo-ku  
103-0004 Tokyo  
Japan  
Tel: 00 81 3-5825-5516  
Fax: 00 81 3-5825-5501  
E-mail: [tomoko\\_muraki@sdsbio.co.jp](mailto:tomoko_muraki@sdsbio.co.jp)

**Mr Yoshihiro NISHIMOTO**

R&RA Manager  
Sumitomo Chemical Co.,Ltd.  
27-1, Shinkawa 2-chome, Chuo-ku  
104-8260 Tokyo  
Japan  
Tel: 00 81 3-5543-5692  
Fax: 00 81 3-5543-5695  
E-mail: [nishimotoy@sc.sumitomo-chem.co.jp](mailto:nishimotoy@sc.sumitomo-chem.co.jp)

**Mr Masaru NOKATA**

Deputy General Manager  
Nihon Nohyaku CO., LTD.  
Regulatory Affairs Unit- Research & Development Division  
19-8, Kyobashi 1-chome, chuo-ku  
104-8387 Tokyo  
Japan  
Tel: 00 81 3 6361 1411  
Fax: 00 81 3 6361 1451  
E-mail: [nokata-masaru@nichino.co.jp](mailto:nokata-masaru@nichino.co.jp)

**Mr Kwang Wook PARK**

Regulatory team manager  
Syngenta Kora, Korea  
NEA CP KR R&D  
Syngenta Korea Ltd., K.P.O Box 1676 Seoul, Korea  
Tel: 82 10 5412 8365  
E-mail: [kwangwook.park@syngenta.com](mailto:kwangwook.park@syngenta.com)

**Mr Vasant L. PATIL**

Regulatory Affairs Director  
CropLife Asia  
150 Cantonment Road, Bloc B/01-07  
089762 Singapore  
Singapore  
Tel: 00 65 6221 1615  
Fax: 00 65 6222 1615  
E-mail: [vasant.patil@croplifeasia.org](mailto:vasant.patil@croplifeasia.org)

**Ms Natalie SHEVCHUK**

Global Regulatory Operations Manager  
FMC Corporation  
1735 Market Street  
19103 Philadelphia, PA  
United States of America  
Tel: 00 1 215 299 66 80  
Fax: 00 1 215 299 64 68  
E-mail: [natalie.shevchuk@fmc.com](mailto:natalie.shevchuk@fmc.com)

**Ms Ying SONG**

Registration and Regulatory Affairs Manager –AP, DuPont Crop  
Protection  
DuPont  
Building 11, 399 Keyuan Road  
201203 Shanghai, China  
Tel: 00 86-21-3862-2039  
E-mail: [Ying.song-1@dupont.com](mailto:Ying.song-1@dupont.com)

**Ms Jane STEWART**

Research Scientist  
BASF  
Consumer Safety  
26 Davis Drive Research Triangle Park, NC  
27713  
United States of America  
Tel: 919-547-2273  
E-mail: [jane.stewart@basf.com](mailto:jane.stewart@basf.com)

**Mr Yukiharu TANAKA**

Manager, Japan and Asia Regulatory Affairs  
Arysta LifeScience Corporation  
St. Luke's Tower, 8-1, Akashi-cho, Chuo-ku  
104-6591 Tokyo, Japan  
Tel: 00 81 3 3547 4587  
Fax: 00 81 3 3547 4695  
E-mail: [yukiharu.tanaka@arysta.com](mailto:yukiharu.tanaka@arysta.com)

**Mr Hiroyasu TANUMA**

Product Promotion Dept., Deputy General Manager  
Summit Agro International Ltd  
1-8-12, Harumi, Chuo-ku  
104-6223 Tokyo, Japan  
Tel: 00 813-6221-3222  
Fax: 00 81 3-6221-3035  
E-mail: [hiroyasu.tanuma@summit-agro.co.jp](mailto:hiroyasu.tanuma@summit-agro.co.jp)

**Mr Hiroo WAKIMORI**

Chemical Regulatory Affairs Lead  
Monsanto Limited Japan  
Glnza Sanno Bldg. 4-10-10, Ginza, Chuo-ku  
104-0061 Tokyo, Japan  
Tel: 00 81 3 6226 6080  
Fax: 00 81 3 3546 6191  
E-mail: [hiroo.wakimori@monsanto.com](mailto:hiroo.wakimori@monsanto.com)

**Mr Masaru WATANABE**

Development & Regulatory Affairs Department  
Hokko Chemical Industry CO.,LTD  
4-20, Nihonbashi Hongoku-cho 4-chome, Chuo-ku  
103-8341 Tokyo, Japan  
Tel: 00 81 3-3279-5831  
Fax: 00 81 3-3279-5831  
E-mail: [watanabe-ma@hokkochem.co.jp](mailto:watanabe-ma@hokkochem.co.jp)

**Mr Peter Andrew WATSON**

Global Chlorpyrifos COE  
Dow AgroSciences  
3 Milton Park, Abingdon  
OX14 4RN Oxfordshire  
United Kingdom  
Tel: 00 44 1235 437 968  
Fax: 00 44 1235 437 996  
E-mail: [pwatson@dow.com](mailto:pwatson@dow.com)

**Mr Tokunori YOKOTA**

Group Manager Technical Affairs Division  
Japan Crop Protection Association  
Sowa BLDG. 2-3-6 Kayaba-cho Nihonbashi Chuo-ku  
103-0025 Tokyo, Japan  
Tel: 00 81 3-5649-7193  
Fax: 00 81 3-5649-7245  
E-mail: [Yokota@jcpa.or.jp](mailto:Yokota@jcpa.or.jp)

**INTER-AMERICAN INSTITUTE FOR COOPERATION ON  
AGRICULTURE (IICA) /****INSTITUT INTERAMÉRICAIN DE COOPÉRATION POUR  
L'AGRICULTURE ( IICA )****INSTITUTO INTERAMERICANO DE COOPERACIÓN PARA LA  
AGRICULTURA****Ms María de Lourdes FONALLERAS**

Agricultural Health and Food Safety Specialist  
IICA  
Luis Piera 1992---- Montevideo  
Uruguay  
Tel: (598) 2410 1676

E-mail: [lourdes.fonalleras@iica.int](mailto:lourdes.fonalleras@iica.int)

**INTERNATIONAL ALLIANCE OF DIETARY/FOOD SUPPLEMENT  
ASSOCIATIONS (IADSA)****Ms Yi Fan JIANG**

IADSA Secretariat  
International Alliance of Dietary/Food Supplement Associations  
(IADSA)

Rue de l'Association 50  
1000 Brussels, Belgium

Tel: +32 2 209 11 55

Fax: +32 2 223 30 64

E-mail: [yifanjiang@iadsa.org](mailto:yifanjiang@iadsa.org)

**INTERNATIONAL LIFE SCIENCES INSTITUTE (ILSI) /****INSTITUT INTERNATIONAL DES SCIENCES DE LA VIE****Ms Jenny ZENG**

Senior Regional Regulatory Affairs Manager  
Unilever Services (Hefei) Co. Ltd.  
No. 35 Dongxiao Road, Haizhu District  
Guangzhou, China

Tel: 8620 89162735

Fax: 86 21 22015001

E-mail: [jenny.zeng@unilever.com](mailto:jenny.zeng@unilever.com)

**INTERNATIONAL NUT AND DRIED FRUIT COUNCIL  
FOUNDATION (INC)****Dr Gabriele LUDWIG**

Assoc. Director, Environmental Affairs  
International Nut & Dried Fruit Council  
Almond Board of California

1150 9th St, Suite 1500, Modesto, CA, USA, 95354

Tel: +209 765 0578

E-mail: [gludwig@almondboard.com](mailto:gludwig@almondboard.com)

**INTERNATIONAL SOCIETY OF CITRICULTURE (ISC) /  
SOCIÉTÉ INTERNATIONALE DES TRAVAILLEURS DE  
L'AGRUMICULTURE /**

**SOCIEDAD INTERNACIONAL DE CITRICULTURA**

**Mr Cranney JAMES**

President

California Citrus Quality Council

853 Lincoln Way, Suite 206

95603 Auburn

United States of America

Tel: 5308851894

Fax: 5308851546

E-mail: [jcranney@calcitrusquality.org](mailto:jcranney@calcitrusquality.org)

**INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY  
(IUPAC) /**

**UNIÓN INTERNATIONALE DE CHIMIE PURE ET APPLIQUÉE  
(UICPA) /**

**UNIÓN INTERNACIONAL DE QUÍMICA PURA Y APLICADA**

**Ms Sue-Sun WONG**

IUPAC Fellow, Consultant

7F, No.16, Lane 111

Yucyun Rd, Wufeng District

Taichung City, Taiwan 413

Tel: 886912216116

E-mail: [suesun.wong@msa.hinet.net](mailto:suesun.wong@msa.hinet.net)

**THE LATINAMERICAN ASSOCIATION OF THE NATIONAL  
AGROCHEMICAL INDUSTRIES (ALINA) /**

**ASSOCIATION LATINOAMÉRICAIN DES INDUSTRIES**

**NATIONALES AGROCHIMIQUES /**

**ASOCIACIÓN LATINOAMERICANA DE LA INDUSTRIA NACIONAL  
DE AGROQUÍMICOS**

**Ms Laura RUIZ**

Asesora Técnica

Asociación Latinoamericana de la Industria Nacional de Agroquímicos

(ALINA)

Necochea 1323

1640 Buenos Aires, Argentina

Tel: 54 11 47988107

E-mail: [lruiz@alinainternacional.org](mailto:lruiz@alinainternacional.org)

**Ms Amada VELEZ DE ZAMORA**

Directora Ejecutiva UMFFAAC

Asociación Latinoamericana de la Industria Nacional de Agroquímicos  
(ALINA)

Gabriel Mancera 1433 Depto. C-3. Col.

CP 03100 Del Valle, México

Tel: 52 (55) 5601 2619

Fax: 52 (55) 5601 1100

E-mail: [amada.velez@umffaac.org.mx](mailto:amada.velez@umffaac.org.mx)

**FOOD AND AGRICULTURE ORGANIZATION OF THE  
UNITED NATIONS (FAO)**

**ORGANISATION DES NATIONS UNIES POUR L' ALIMENTATION  
ET L'AGRICULTURE**

**ORGANIZACIÓN DE LA NACIONES UNIDAS PARA LA  
ALIMENTACIÓN Y LA AGRICULTURA**

**Ms Yongzhen YANG**

FAO JMPR Secretary

00153, Viale delle Terme di Caracalla

Rome, Italy

Tel: +39 0657054246

Fax: +39 06 57053224

E-mail: [Yongzhen.Yang@fao.org](mailto:Yongzhen.Yang@fao.org)

**WORLD HEALTH ORGANIZATION (WHO)**

**ORGANISATION MONDIALE DE LA SANTÉ**

**ORGANIZACIÓN MUNDIAL DE LA SALUD**

**Dr Philippe VERGER**

WHO JMPR secretariat

Avenue Appia 20, CH-1211 Geneva 27, Switzerland

Tel: +41 22 791 3053

Fax: + 41 22 791 48 07

E-mail: [vergerp@who.int](mailto:vergerp@who.int)

**CODEX SECRETARIAT / SECRÉTARIAT DU CODEX /  
SECRETARIADO DEL CODEX**

**Ms Gracia BRISCO**

Food Standards Officer

Secretariat, Codex Alimentarius Commission.

Joint FAO/WHO Food Standards Programme

Viale delle Terme di Caracalla

00153 Rome, Italy

Tel: +39 06 5705 2700

Fax: +39 06 5705 3057

E-mail: [Gracia.Brisco@fao.org](mailto:Gracia.Brisco@fao.org)

**Dr Selma Helena DOYRAN**

Secretary, Codex Alimentarius Commission  
Joint FAO/WHO Food Standards Programme  
00153, Viale delle terme di Caracalla Rome, Italy  
Tel: +39 06 5705 5826  
Fax: +39 06 5705 3057  
E-mail: [selma.doyran@fao.org](mailto:selma.doyran@fao.org)

**Dr Hidetaka KOBAYASHI**

Food Standards Officer  
Secretariat, Codex Alimentarius Commission  
Joint FAO/WHO Food Standards Programme  
Nutrition and Consumer Protection Division  
Viale delle Terme di Caracalla 00153 Rome, Italy  
Tel: (+39) 06 570 53218  
Fax: (+39) 06 570 54593  
E-mail: [Hidetaka.Kobayashi@fao.org](mailto:Hidetaka.Kobayashi@fao.org)

**CCPR SECRETARIAT / SECRÉTARIAT DU CCPR /  
SECRETARIADO DEL CCPR****HOST GOVERNMENT SECRETARIAT****Ms Ying JI**

Chief Agronomist, Secretariat in General of CCPR  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86-10-59194106  
Fax: +86-10-59194047  
E-mail: [jiying@agri.gov.cn](mailto:jiying@agri.gov.cn)

**Dr Hongjun ZHANG**

Director  
CCPR Secretary Office  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
No.18 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4257  
Fax: +86 10 5919 4252  
E-mail: [zhanghongjun@agri.gov.cn](mailto:zhanghongjun@agri.gov.cn)

**Ms Qiu JIAN**

Deputy Director  
Residue Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
No.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4033  
Fax: +86 10 5919 4107  
E-mail: [jianqiu@agri.gov.cn](mailto:jianqiu@agri.gov.cn)

**Dr Wencheng SONG**

Deputy Director  
Information Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4277  
Fax: +86 10 5919 4075  
E-mail: [songwencheng@agri.gov.cn](mailto:songwencheng@agri.gov.cn)

**Ms Guangyan ZHU**

Senior Agronomist  
Residue Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4105  
Fax: +86 10 5919 4107  
E-mail: [zhuguangyan@agri.gov.cn](mailto:zhuguangyan@agri.gov.cn)

**Ms Liying ZHANG**

Senior Toxicologist  
Health Division  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.22 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: + 86 10 5919 4062  
Fax: +86 10 5919 4244  
E-mail: [zhangliying@agri.gov.cn](mailto:zhangliying@agri.gov.cn)

**Ms Lifang DUAN**

Senior Agronomist  
CCPR Secretary Office  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.18 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4255  
Fax: +86 10 5919 4252  
E-mail: [duanlifang@agri.gov.cn](mailto:duanlifang@agri.gov.cn)

**Dr Xianbin LI**

Agronomist  
CCPR Secretary Office  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.18 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4254  
Fax: +86 10 5919 4252  
E-mail: [lixianbin@agri.gov.cn](mailto:lixianbin@agri.gov.cn)

**Ms Jun XU**

Associate Professor  
Institute of Plant Protection,  
Chinese Academy of Agricultural Sciences  
No.2 West Yuan Ming Yuan Road  
100193, Beijing, China  
Tel: 86-10-62815938  
Fax: 86-10-62815938  
E-mail: [xujun19770927@163.com](mailto:xujun19770927@163.com)

**Ms Changjie KE**

Agronomist  
CCPR Secretary Office  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.18 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4255  
Fax: +86 10 5919 4252  
E-mail: [ccpr@agri.gov.cn](mailto:ccpr@agri.gov.cn)

**Mr Qi XU**

CCPR Secretary Office  
Institute for the Control of Agrochemicals  
Ministry of Agriculture  
NO.18 Maizidian Street, Chaoyang District  
100125, Beijing, China  
Tel: +86 10 5919 4254  
Fax: +86 10 5919 4252  
E-mail: [xq\\_glory@hotmail.com](mailto:xq_glory@hotmail.com)

## APPENDIX II

## DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(At Step 8)

|     | <u>Commodity</u>                                       | <u>MRL (mg/kg)</u> | <u>Step</u> | <u>Note</u> |
|-----|--|--------------------|-------------|-------------|
| 130 | <b>Diflubenzuron</b>                                   |                    |             |             |
|     | GC 0640 Barley   | 0.05 (*)           | 8           |             |
|     | AS 0162 Hay or fodder (dry) of grasses                 | 3                  | 8           |             |
|     | VL 0485 Mustard greens                                 | 10                 | 8           |             |
|     | FS 0245 Nectarine                                      | 0.5                | 8           |             |
|     | GC 0647 Oats   | 0.05 (*)           | 8           |             |
|     | FS 0247 Peach  | 0.5                | 8           |             |
|     | SO 0697 Peanut   | 0.1                | 8           |             |
|     | AL 0697 Peanut fodder                                  | 40                 | 8           |             |
|     | VO 0444 Peppers Chili                                  | 3                  | 8           |             |
|     | HS 0444 Peppers Chili, dried                           | 20                 | 8           |             |
|     | VO 0445 Peppers, Sweet (including pimento or pimiento) | 0.7                | 8           |             |
|     | FS 0014 Plums (including prunes)                       | 0.5                | 8           |             |
|     | AS 0081 Straw and fodder (dry) of cereal grains        | 1.5                | 8           |             |
|     | TN 0085 Tree nuts                                      | 0.2                | 8           |             |
|     | GC 0653 Triticale                                      | 0.05 (*)           | 8           |             |
|     | GC 0654 Wheat  | 0.05 (*)           | 8           |             |
| 176 | <b>Hexythiazox</b>                                     |                    |             |             |
|     | FB 0275 Strawberry                                     | 6                  | 8           |             |
| 184 | <b>Etofenprox</b>                                      |                    |             |             |
|     | FB 0269 Grapes   | 4                  | 8           |             |
| 197 | <b>Fenbuconazole</b>                                   |                    |             |             |
|     | AM 0660 Almond hulls                                   | 3                  | 8           |             |
|     | AB 0226 Apple pomace, dry                              | 1                  | 8           |             |
|     | CM 0640 Barley bran, unprocessed                       | 1                  | 8           |             |
|     | FB 0020 Blueberries                                    | 0.5                | 8           |             |
|     | FB 0265 Cranberry                                      | 1                  | 8           |             |
|     | MO 0105 Edible offal (mammalian)                       | 0.1                | 8           |             |
|     | MM 0095 Meat (from mammals other than marine mammals)  | 0.01               | 8           |             |
|     | SO 0697 Peanut   | 0.1                | 8           |             |
|     | AL 0697 Peanut fodder                                  | 15                 | 8           |             |
|     | VO 0051 Peppers  | 0.6                | 8           |             |
|     | HS 0444 Peppers Chili, dried                           | 2                  | 8           |             |
|     | FS 0014 Plums (including prunes)                       | 0.3                | 8           |             |
|     | FP 0009 Pome fruits                                    | 0.5                | 8           |             |



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|     |                      |   |      |   |
|-----|----------------------|---|------|---|
| 204 | <b>Esfenvalerate</b> |   |      |   |
|     | SO 0691              | Cotton seed                                       | 0.05 | 8 |
|     | VO 0448              | Tomato  | 0.1  | 8 |
|     | GC 0654              | Wheat   | 0.05 | 8 |
| 248 | <b>Flutriafol</b>    |   |      |   |
|     | DF 0269              | Dried grapes (=currants, raisins<br>and sultanas) | 2    | 8 |
|     | FB 0269              | Grapes  | 0.8  | 8 |

## APPENDIX III

## PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(At Step 5/8)

|     | <u>Commodity</u>                                       | <u>MRL (mg/kg)</u> | <u>Step</u> | <u>Note</u>  |
|-----|--|--------------------|-------------|--|
| 25  | <b>Dichlorvos</b>                                      |                    |             |  |
|     | MO 0105 Edible offal (mammalian)                       | 0.01 (*)           | 5/8         |  |
|     | PE 0112 Eggs   | 0.01 (*)           | 5/8         |  |
|     | MF 0100 Mammalian fats (except milk fats)              | 0.01 (*)           | 5/8         |  |
|     | MM 0095 Meat (from mammals other than marine mammals)  | 0.01 (*)           | 5/8         |  |
|     | ML 0106 Milks  | 0.01 (*)           | 5/8         |  |
|     | PO 0111 Poultry, edible offal of                       | 0.01 (*)           | 5/8         |  |
|     | PF 0111 Poultry fats                                   | 0.01 (*)           | 5/8         |  |
|     | PM 0110 Poultry meat                                   | 0.01 (*)           | 5/8         |  |
|     | GC 0649 Rice   | 7                  | 5/8         |  |
|     | CM 1206 Rice bran, unprocessed                         | 15 PoP             | 5/8         |  |
|     | CM 0649 Rice, husked                                   | 1.5 PoP            | 5/8         |  |
|     | CM 1205 Rice, polished                                 | 0.15 PoP           | 5/8         |  |
|     | GC 0654 Wheat  | 7 Po               | 5/8         |  |
|     | CM 0654 Wheat bran, unprocessed                        | 15 PoP             | 5/8         |  |
|     | CF 1211 Wheat flour                                    | 0.7 PoP            | 5/8         |  |
|     | CF 1212 Wheat, wholemeal                               | 3 PoP              | 5/8         |  |
| 26  | <b>Dicofol</b>   |                    |             |  |
|     | DT 1114 Tea, Green, Black (black, fermented and dried) | 40                 | 5/8         | DDT may be present in tea as a result of its presence as a contaminant in the technical grade dicofol. |
| 81  | <b>Chlorothalonil</b>                                  |                    |             |  |
|     | FI 0327 Banana   | 15                 | 5/8         |  |
|     | VL 0464 Chard  | 50                 | 5/8         |  |
| 96  | <b>Carbofuran</b>                                      |                    |             |  |
|     | FI 0327 Banana   | 0.01 (*)           | 5/8         |  |
| 112 | <b>Phorate</b>   |                    |             |  |
|     | VR 0589 Potato   | 0.3                | 5/8         |  |
| 119 | <b>Fenvalerate</b>                                     |                    |             |  |
|     | VB 0401 Broccoli, Chinese                              | 3                  | 5/8         |  |
|     | FI 0345 Mango  | 1.5                | 5/8         |  |
| 157 | <b>Cyfluthrin/beta-cyfluthrin</b>                      |                    |             |  |
|     | VB 0041 Cabbages, head                                 | 0.08               | 5/8         |  |
|     | MO 0105 Edible offal (mammalian)                       | 0.02               | 5/8         |  |
|     | MM 0095 Meat (from mammals other than marine mammals)  | 0.2 (fat)          | 5/8         |  |
|     | ML 0106 Milks  | 0.01               | 5/8         |  |

|     |                             |   |          |     |                               |
|-----|-----------------------------|---|----------|-----|-------------------------------|
|     | VD 0541                     | Soya bean (dry)   | 0.03     | 5/8 |                               |
|     | AL 0541                     | Soya bean fodder  | 4        | 5/8 |                               |
| 169 | <b>Cyromazine</b>           |   |          |     |                               |
|     | VD 0524                     | Chick-pea (dry)   | 3        | 5/8 |                               |
|     | VD 0533                     | Lentil (dry)  | 3        | 5/8 |                               |
|     | VD 0545                     | Lupin (dry)   | 3        | 5/8 |                               |
| 173 | <b>Buprofezin</b>           |   |          |     |                               |
|     | FI 0327                     | Banana  | 0.3      | 5/8 |                               |
|     | DT 1116                     | Tea, green  | 30       | 5/8 |                               |
| 175 | <b>Glufosinate-Ammonium</b> |   |          |     |                               |
|     | VS 0621                     | Asparagus   | 0.4      | 5/8 |                               |
|     | FT 0026                     | Assorted tropical and sub-tropical fruits - edible peel   | 0.1      | 5/8 |                               |
|     | FI 0030                     | Assorted tropical and sub-tropical fruits - inedible peel | 0.1      | 5/8 | (except banana and kiwifruit) |
|     | AL 0061                     | Bean fodder   | 1        | 5/8 |                               |
|     | FB 0020                     | Blueberries   | 0.1      | 5/8 |                               |
|     | VR 0577                     | Carrot  | 0.05     | 5/8 |                               |
|     | FC 0001                     | Citrus fruits   | 0.05     | 5/8 |                               |
|     | SB 0716                     | Coffee beans  | 0.1      | 5/8 |                               |
|     | VD 0526                     | Common bean (dry)   | 0.05     | 5/8 |                               |
|     | VP 0526                     | Common bean (pods and/or immature seeds)                  | 0.05 (*) | 5/8 |                               |
|     | VL 0470                     | Corn salad  | 0.05     | 5/8 |                               |
|     | SO 0691                     | Cotton seed   | 5        | 5/8 |                               |
|     | FB 0021                     | Currants, black, red, white                               | 1        | 5/8 |                               |
|     | PE 0112                     | Eggs  | 0.05 (*) | 5/8 |                               |
|     | FB 0268                     | Gooseberry  | 0.1      | 5/8 |                               |
|     | FB 0269                     | Grapes  | 0.15     | 5/8 |                               |
|     | VL 0482                     | Lettuce, head   | 0.4      | 5/8 |                               |
|     | GC 0645                     | Maize   | 0.1      | 5/8 |                               |
|     | AS 0645                     | Maize fodder (dry)  | 8        | 5/8 |                               |
|     | MM 0095                     | Meat (from mammals other than marine mammals)             | 0.05     | 5/8 |                               |
|     | ML 0106                     | Milks   | 0.02 (*) | 5/8 |                               |
|     | VA 0385                     | Onion, bulb   | 0.05     | 5/8 |                               |
|     | FP 0009                     | Pome fruits   | 0.1      | 5/8 |                               |
|     | VR 0589                     | Potato  | 0.1      | 5/8 |                               |
|     | PO 0111                     | Poultry, edible offal of                                  | 0.1 (*)  | 5/8 |                               |
|     | PM 0110                     | Poultry meat  | 0.05 (*) | 5/8 |                               |
|     | DF 0014                     | Prunes  | 0.3      | 5/8 |                               |
|     | SO 0495                     | Rape seed   | 1.5      | 5/8 |                               |
|     | OC 0495                     | Rape seed oil, crude                                      | 0.05 (*) | 5/8 |                               |

|     |                   |   |          |     |                               |
|-----|-------------------|---|----------|-----|-------------------------------|
|     | FB 0272           | Raspberries, red, black   | 0.1      | 5/8 |                               |
|     | GC 0649           | Rice  | 0.9      | 5/8 |                               |
|     | AS 0649           | Rice straw and fodder, dry  | 2        | 5/8 |                               |
|     | FS 0012           | Stone fruits  | 0.15     | 5/8 |                               |
|     | FB 0275           | Strawberry  | 0.3      | 5/8 |                               |
|     | VR 0596           | Sugar beet  | 1.5      | 5/8 |                               |
|     | DM 0596           | Sugar beet molasses   | 8        | 5/8 |                               |
|     | TN 0085           | Tree nuts   | 0.1      | 5/8 |                               |
| 179 | <b>Cycloxydim</b> |   |          |     |                               |
|     | VD 0071           | Beans (dry)   | 30       | 5/8 |                               |
|     | VP 0061           | Beans, except broad bean and soya bean                                    | 15       | 5/8 | (green pods & immature seeds) |
|     | VR 0574           | Beetroot  | 0.2      | 5/8 |                               |
|     | VB 0040           | Brassica (cole or cabbage) vegetables, head cabbage, flowerhead brassicas | 9        | 5/8 |                               |
|     | VR 0577           | Carrot  | 5        | 5/8 |                               |
|     | VR 0578           | Celeriac  | 1        | 5/8 |                               |
|     | MO 0105           | Edible offal (mammalian)  | 0.5      | 5/8 |                               |
|     | PE 0112           | Eggs  | 0.15     | 5/8 |                               |
|     | FB 0269           | Grapes  | 0.3      | 5/8 |                               |
|     | VL 4355           | Kale, curly   | 3        | 5/8 |                               |
|     | VA 0384           | Leek  | 4        | 5/8 |                               |
|     | VL 0482           | Lettuce, Head   | 1.5      | 5/8 |                               |
|     | VL 0483           | Lettuce, Leaf   | 1.5      | 5/8 |                               |
|     | SO 0693           | Linseed   | 7        | 5/8 |                               |
|     | GC 0645           | Maize   | 0.2      | 5/8 |                               |
|     | AS 0645           | Maize fodder (dry)  | 2        | 5/8 |                               |
|     | MF 0100           | Mammalian fats (except milk fats)   | 0.1      | 5/8 |                               |
|     | MM 0095           | Meat (from mammals other than marine mammals)                             | 0.06     | 5/8 |                               |
|     | ML 0106           | Milks   | 0.02     | 5/8 |                               |
|     | VA 0385           | Onion, bulb   | 3        | 5/8 |                               |
|     | VD 0072           | Peas (dry)  | 30       | 5/8 |                               |
|     | VP 0064           | Peas, shelled (succulent seeds)   | 15       | 5/8 |                               |
|     | VO 0051           | Peppers   | 9        | 5/8 |                               |
|     | HS 0444           | Peppers chili, dried  | 90       | 5/8 |                               |
|     | FP 0009           | Pome fruits   | 0.09 (*) | 5/8 |                               |
|     | VR 0589           | Potato  | 3        | 5/8 |                               |
|     | PO 0111           | Poultry, edible offal of  | 0.02     | 5/8 |                               |
|     | PF 0111           | Poultry fats  | 0.03 (*) | 5/8 |                               |
|     | PM 0110           | Poultry meat  | 0.03 (*) | 5/8 |                               |
|     | SO 0495           | Rape seed   | 7        | 5/8 |                               |

|     |                        |   |           |     |                     |
|-----|------------------------|---|-----------|-----|---------------------|
|     | GC 0649                | Rice  | 0.09 (*)  | 5/8 |                     |
|     | AS 0649                | Rice straw and fodder, dry                    | 0.09      | 5/8 |                     |
|     | VD 0541                | Soya bean (dry)                               | 80        | 5/8 |                     |
|     | FS 0012                | Stone fruits                                  | 0.09 (*)  | 5/8 |                     |
|     | FB 0275                | Strawberry                                    | 3         | 5/8 |                     |
|     | VR 0596                | Sugar beet                                    | 0.2       | 5/8 |                     |
|     | SO 0702                | Sunflower seed                                | 6         | 5/8 |                     |
|     | VR 0497                | Swede   | 0.2       | 5/8 |                     |
|     | VO 0448                | Tomato  | 1.5       | 5/8 |                     |
| 206 | <b>Imidacloprid</b>    |   |           |     |                     |
|     | VS 0624                | Celery  | 6         | 5/8 |                     |
|     | VD 0070                | Pulses  | 2         | 5/8 | (except soya beans) |
| 209 | <b>Methoxyfenozide</b> |   |           |     |                     |
|     | FC 0001                | Citrus fruits                                 | 2         | 5/8 |                     |
|     | MO 0105                | Edible offal (mammalian)                      | 0.2       | 5/8 |                     |
|     | VC 0045                | Fruiting vegetables, cucurbits                | 0.3       | 5/8 | (except watermelon) |
|     | MF 0100                | Mammalian fats (except milk fats)             | 0.3       | 5/8 |                     |
|     | MM 0095                | Meat (from mammals other than marine mammals) | 0.3 (fat) | 5/8 |                     |
|     | VD 0072                | Peas (dry)                                    | 5         | 5/8 |                     |
|     | VP 0063                | Peas (pods and succulent=immature seeds)      | 2         | 5/8 |                     |
| 210 | <b>Pyraclostrobin</b>  |   |           |     |                     |
|     | OR 0001                | Citrus oil, edible                            | 10        | 5/8 |                     |
| 211 | <b>Fludioxonil</b>     |   |           |     |                     |
|     | FI 0345                | Mango   | 2         | 5/8 |                     |
| 213 | <b>Trifloxystrobin</b> |   |           |     |                     |
|     | VS 0621                | Asparagus                                     | 0.05 (*)  | 5/8 |                     |
|     | VO 0440                | Egg plant                                     | 0.7       | 5/8 |                     |
|     | VL 0482                | Lettuce, Head                                 | 15        | 5/8 |                     |
|     | OR 0305                | Olive oil, Refined                            | 1.2       | 5/8 |                     |
|     | OC 0305                | Olive oil, Virgin                             | 0.9       | 5/8 |                     |
|     | FT 0305                | Olives  | 0.3       | 5/8 |                     |
|     | FI 0350                | Papaya  | 0.6       | 5/8 |                     |
|     | VR 0494                | Radish  | 0.08      | 5/8 |                     |
|     | VL 0494                | Radish leaves (including radish tops)         | 15        | 5/8 |                     |
|     | FB 0275                | Strawberry                                    | 1         | 5/8 |                     |
| 216 | <b>Indoxacarb</b>      |   |           |     |                     |
|     | VL 0483                | Lettuce, leaf                                 | 3         | 5/8 |                     |
| 229 | <b>Azoxystrobin</b>    |   |           |     |                     |
|     | FT 0289                | Carambola                                     | 0.1       | 5/8 |                     |
|     | DV 0604                | Ginseng, dried including red ginseng          | 0.3       | 5/8 |                     |
|     | DM 0604                | Ginseng, extracts                             | 0.5       | 5/8 |                     |

|         |   |          |     |                                 |
|---------|---|----------|-----|---------------------------------|
| 233     | <b>Spinetoram</b>   |          |     |                                 |
| VP 0061 | Beans, except broad bean and soya bean                                    | 0.05     | 5/8 | (green pods and immature seeds) |
| FB 0020 | Blueberries   | 0.2      | 5/8 |                                 |
| VB 0040 | Brassica (cole or cabbage) vegetables, head cabbage, flowerhead brassicas | 0.3      | 5/8 |                                 |
| VS 0624 | Celery  | 6        | 5/8 |                                 |
| PE 0112 | Eggs  | 0.01 (*) | 5/8 |                                 |
| FB 0269 | Grapes  | 0.3      | 5/8 |                                 |
| FS 0245 | Nectarine   | 0.3      | 5/8 |                                 |
| VA 0385 | Onion, bulb   | 0.01 (*) | 5/8 |                                 |
| VA 0387 | Onion, Welsh  | 0.8      | 5/8 |                                 |
| FS 0247 | Peach   | 0.3      | 5/8 |                                 |
| PO 0111 | Poultry, edible offal of  | 0.01 (*) | 5/8 |                                 |
| PF 0111 | Poultry fats  | 0.01 (*) | 5/8 |                                 |
| PM 0110 | Poultry meat  | 0.01     | 5/8 |                                 |
| FB 0272 | Raspberries, red, black   | 0.8      | 5/8 |                                 |
| VL 0502 | Spinach   | 8        | 5/8 |                                 |
| VA 0389 | Spring onion  | 0.8      | 5/8 |                                 |
| 234     | <b>Spirotetramate</b>   |          |     |                                 |
| ML 0106 | Milks   | 0.005    | 5/8 |                                 |
| 243     | <b>Fluopyram</b>  |          |     |                                 |
| FI 0327 | Banana  | 0.8      | 5/8 |                                 |
| VD 0071 | Beans (dry)   | 0.07     | 5/8 |                                 |
| VR 0577 | Carrot  | 0.4      | 5/8 |                                 |
| FS 0013 | Cherries  | 0.7      | 5/8 |                                 |
| VD 0524 | Chick-pea (dry)   | 0.07     | 5/8 |                                 |
| PE 0112 | Eggs  | 0.3      | 5/8 |                                 |
| MO 0098 | Kidney of cattle, goats, pigs and sheep                                   | 0.5      | 5/8 |                                 |
| VD 0533 | Lentil (dry)  | 0.07     | 5/8 |                                 |
| MO 0099 | Liver of cattle, goats, pigs & sheep                                      | 3        | 5/8 |                                 |
| VD 0545 | Lupin (dry)   | 0.07     | 5/8 |                                 |
| MM 0095 | Meat (from mammals other than marine mammals)                             | 0.5      | 5/8 |                                 |
| ML 0106 | Milks   | 0.3      | 5/8 |                                 |
| FS 0247 | Peach   | 0.4      | 5/8 |                                 |
| SO 0697 | Peanut  | 0.03     | 5/8 |                                 |
| FP 0009 | Pome fruits   | 0.5      | 5/8 |                                 |
| VR 0589 | Potato  | 0.03     | 5/8 |                                 |
| PO 0111 | Poultry, edible offal of  | 0.7      | 5/8 |                                 |
| PM 0110 | Poultry meat  | 0.2      | 5/8 |                                 |

|     |                     |  |          |     |                                 |
|-----|---------------------|--|----------|-----|---------------------------------|
|     | FB 0275             | Strawberry                                     | 0.4      | 5/8 |                                 |
|     | VR 0596             | Sugar beet                                     | 0.04     | 5/8 |                                 |
|     | VO 0448             | Tomato   | 0.4      | 5/8 |                                 |
|     | TN 0085             | Tree nuts                                      | 0.04     | 5/8 |                                 |
| 251 | <b>Saflufenacil</b> |  |          |     |                                 |
|     | VD 0070             | Pulses   | 0.3      | 5/8 |                                 |
| 252 | <b>Sulfoxaflor</b>  |  |          |     |                                 |
|     | GC 0640             | Barley   | 0.6      | 5/8 |                                 |
|     | AS 0640             | Barley straw and fodder, Dry                   | 3        | 5/8 |                                 |
|     | VB 0400             | Broccoli                                       | 3        | 5/8 |                                 |
|     | VB 0041             | Cabbages, Head                                 | 0.4      | 5/8 |                                 |
|     | VB 0404             | Cauliflower                                    | 0.04     | 5/8 |                                 |
|     | VS 0624             | Celery   | 1.5      | 5/8 |                                 |
|     | SO 0691             | Cotton seed                                    | 0.4      | 5/8 |                                 |
|     | DF 0269             | Dried grapes (=currants, raisins and sultanas) | 6        | 5/8 |                                 |
|     | MO 0105             | Edible offal (mammalian)                       | 0.6      | 5/8 |                                 |
|     | PE 0112             | Eggs   | 0.1      | 5/8 |                                 |
|     | VO 0050             | Fruiting vegetables other than cucurbits       | 1.5      | 5/8 | except sweet corn and mushrooms |
|     | VC 0045             | Fruiting vegetables, cucurbits                 | 0.5      | 5/8 |                                 |
|     | VA 0381             | Garlic   | 0.01 (*) | 5/8 |                                 |
|     | FB 0269             | Grapes   | 2        | 5/8 |                                 |
|     | VL 0053             | Leafy vegetables                               | 6        | 5/8 |                                 |
|     | MM 0095             | Meat (from mammals other than marine mammals)  | 0.3      | 5/8 |                                 |
|     | ML 0106             | Milks  | 0.2      | 5/8 |                                 |
|     | VA 0385             | Onion, bulb                                    | 0.01 (*) | 5/8 |                                 |
|     | HS 0444             | Peppers chili, dried                           | 15       | 5/8 |                                 |
|     | PO 0111             | Poultry, edible offal of                       | 0.3      | 5/8 |                                 |
|     | PM 0110             | Poultry meat                                   | 0.1      | 5/8 |                                 |
|     | SO 0495             | Rape seed                                      | 0.15     | 5/8 |                                 |
|     | VR 0075             | Root and tuber vegetables                      | 0.03     | 5/8 | except carrot                   |
|     | VD 0541             | Soya bean (dry)                                | 0.3      | 5/8 |                                 |
|     | AL 0541             | Soya bean fodder                               | 3        | 5/8 |                                 |
|     | VA 0389             | Spring Onion                                   | 0.7      | 5/8 |                                 |
|     | FB 0275             | Strawberry                                     | 0.5      | 5/8 |                                 |
|     | GC 0653             | Triticale                                      | 0.2      | 5/8 |                                 |
|     | GC 0654             | Wheat  | 0.2      | 5/8 |                                 |
|     | AS 0654             | Wheat straw and fodder, Dry                    | 3        | 5/8 |                                 |
| 253 | <b>Penthiopyrad</b> |  |          |     |                                 |
|     | VP 0061             | Beans, except broad bean and soya bean         | 3        | 5/8 | (green pods and immature seeds) |

|     |                    |   |          |     |                                    |
|-----|--------------------|---|----------|-----|------------------------------------|
|     | VP 0062            | Beans, Shelled  | 0.3      | 5/8 |                                    |
|     | VR 0577            | Carrot  | 0.6      | 5/8 |                                    |
|     | VS 0624            | Celery  | 15       | 5/8 |                                    |
|     | VB 0042            | Flowerhead brassicas (includes Broccoli: Broccoli, Chinese and Cauliflower) | 5        | 5/8 |                                    |
|     | VO 0050            | Fruiting vegetables other than cucurbits                                    | 2        | 5/8 | (except sweet corn and mushroom)   |
|     | VC 0045            | Fruiting vegetables, Cucurbits  | 0.5      | 5/8 |                                    |
|     | VL 0053            | Leafy vegetables  | 30       | 5/8 | (except brassica leafy vegetables) |
|     | VA 0385            | Onion, Bulb   | 0.7      | 5/8 |                                    |
|     | VA 0387            | Onion, Welsh  | 4        | 5/8 |                                    |
|     | VP 0063            | Peas (pods and succulent=immature seeds)                                    | 3        | 5/8 |                                    |
|     | VP 0064            | Peas, Shelled (succulent seeds)   | 0.3      | 5/8 |                                    |
|     | HS 0444            | Peppers Chili, dried  | 14       | 5/8 |                                    |
|     | VR 0589            | Potato  | 0.05     | 5/8 |                                    |
|     | VD 0070            | Pulses  | 0.3      | 5/8 | (except soya beans)                |
|     | VR 0494            | Radish  | 3        | 5/8 |                                    |
|     | VA 0389            | Spring Onion  | 4        | 5/8 |                                    |
|     | FS 0012            | Stone fruits  | 4        | 5/8 |                                    |
|     | FB 0275            | Strawberry  | 3        | 5/8 |                                    |
|     | VO 0447            | Sweet corn (corn-on-the-cob)  | 0.02     | 5/8 |                                    |
|     | TN 0085            | Tree nuts   | 0.05     | 5/8 |                                    |
|     | VL 0506            | Turnip greens   | 50       | 5/8 |                                    |
| 255 | <b>Dinotefuran</b> |   |          |     |                                    |
|     | VB 0040            | Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas   | 2        | 5/8 |                                    |
|     | VS 0624            | Celery  | 0.6      | 5/8 |                                    |
|     | SO 0691            | Cotton seed   | 0.2      | 5/8 |                                    |
|     | FB 0265            | Cranberry   | 0.15     | 5/8 |                                    |
|     | DF 0269            | Dried grapes (=currants, raisins and sultanas)                              | 3        | 5/8 |                                    |
|     | MO 0105            | Edible offal (mammalian)  | 0.1      | 5/8 |                                    |
|     | PE 0112            | Eggs  | 0.02 (*) | 5/8 |                                    |
|     | VO 0050            | Fruiting vegetables other than cucurbits                                    | 0.5      | 5/8 | (except sweet corn and mushrooms)  |
|     | VC 0045            | Fruiting vegetables, Cucurbits  | 0.5      | 5/8 |                                    |
|     | FB 0269            | Grapes  | 0.9      | 5/8 |                                    |
|     | VL 0053            | Leafy vegetables  | 6        | 5/8 | except watercress                  |
|     | MM 0095            | Meat (from mammals other than marine mammals)                               | 0.1      | 5/8 |                                    |
|     | ML 0106            | Milks   | 0.1      | 5/8 |                                    |
|     | FS 0245            | Nectarine   | 0.8      | 5/8 |                                    |



|     |                     |   |          |       |     |                                   |
|-----|---------------------|---|----------|-------|-----|-----------------------------------|
|     | VA 0385             | Onion, bulb                                   | 0.1      |       | 5/8 |                                   |
|     | FS 0247             | Peach   | 0.8      |       | 5/8 |                                   |
|     | HS 0444             | Peppers chili, dried                          | 5        |       | 5/8 |                                   |
|     | PO 0111             | Poultry, edible offal of                      | 0.02 (*) |       | 5/8 |                                   |
|     | PM 0110             | Poultry meat                                  | 0.02 (*) |       | 5/8 |                                   |
|     | GC 0649             | Rice  | 8        |       | 5/8 |                                   |
|     | AS 0649             | Rice straw and fodder, dry                    | 6        |       | 5/8 |                                   |
|     | CM 1205             | Rice, polished                                | 0.3      |       | 5/8 |                                   |
|     | VA 0389             | Spring onion                                  | 4        |       | 5/8 |                                   |
|     | VL 0473             | Watercress                                    | 7        |       | 5/8 |                                   |
| 256 | <b>Fluxapyroxad</b> |   |          |       |     |                                   |
|     | GC 0640             | Barley  | 2        |       | 5/8 |                                   |
|     | CF 0640             | Barley bran, processed                        | 4        |       | 5/8 |                                   |
|     | AS 0640             | Barley straw and fodder, dry                  | 30       |       | 5/8 |                                   |
|     | VD 0071             | Beans (dry)                                   | 0.3      |       | 5/8 |                                   |
|     | VP 0061             | Beans, except broad bean and soya bean        | 2        |       | 5/8 |                                   |
|     | VP 0062             | Beans, Shelled                                | 0.09     |       | 5/8 |                                   |
|     | VD 0524             | Chick-pea (dry)                               | 0.4      |       | 5/8 |                                   |
|     | SO 0691             | Cotton seed                                   | 0.01 (*) |       | 5/8 |                                   |
|     | MO 0105             | Edible offal (mammalian)                      | 0.1      |       | 5/8 |                                   |
|     | PE 0112             | Eggs  | 0.02     |       | 5/8 |                                   |
|     | VO 0050             | Fruiting vegetables other than cucurbits      | 0.6      |       | 5/8 | (except sweet corn and mushrooms) |
|     | VD 0533             | Lentil (dry)                                  | 0.4      |       | 5/8 |                                   |
|     | GC 0645             | Maize   | 0.01 (*) |       | 5/8 |                                   |
|     | AS 0645             | Maize fodder (dry)                            | 15       |       | 5/8 |                                   |
|     | MM 0095             | Meat (from mammals other than marine mammals) | 0.2      | (fat) | 5/8 |                                   |
|     | FM 0183             | Milk fats                                     | 0.5      |       | 5/8 |                                   |
|     | ML 0106             | Milks   | 0.02     |       | 5/8 |                                   |
|     | AS 0647             | Oat straw and fodder, dry                     | 30       |       | 5/8 |                                   |
|     | GC 0647             | Oats  | 2        |       | 5/8 |                                   |
|     | SO 0088             | Oilseed                                       | 0.8      |       | 5/8 | (except peanut and cotton)        |
|     | AL 0072             | Pea hay or pea fodder (dry)                   | 40       |       | 5/8 |                                   |
|     | SO 0697             | Peanut  | 0.01     |       | 5/8 |                                   |
|     | VD 0072             | Peas (dry)                                    | 0.4      |       | 5/8 |                                   |
|     | VP 0063             | Peas (pods and succulent=immature seeds)      | 2        |       | 5/8 |                                   |
|     | VP 0064             | Peas, Shelled (succulent seeds)               | 0.09     |       | 5/8 |                                   |
|     | HS 0444             | Peppers Chili, dried                          | 6        |       | 5/8 |                                   |
|     | FP 0009             | Pome fruits                                   | 0.9      |       | 5/8 |                                   |
|     | VR 0589             | Potato  | 0.03     |       | 5/8 |                                   |

|     |             |   |          |     |
|-----|-------------|---|----------|-----|
|     | PO 0111     | Poultry, edible offal of                      | 0.02     | 5/8 |
|     | PF 0111     | Poultry fats                                  | 0.05     | 5/8 |
|     | PM 0110     | Poultry meat                                  | 0.02     | 5/8 |
|     | DF 0014     | Prunes  | 5        | 5/8 |
|     | GC 0650     | Rye   | 0.3      | 5/8 |
|     | AS 0650     | Rye straw and fodder, dry                     | 30       | 5/8 |
|     | VD 0541     | Soya bean (dry)                               | 0.15     | 5/8 |
|     | VP 0541     | Soya bean (immature seeds)                    | 0.5      | 5/8 |
|     | VP 0546     | Soya bean (young pod)                         | 1.5      | 5/8 |
|     | AL 0541     | Soya bean fodder                              | 30       | 5/8 |
|     | AB 0541     | Soya bean hulls                               | 0.3      | 5/8 |
|     | FS 0012     | Stone fruits                                  | 2        | 5/8 |
|     | VR 0596     | Sugar beet                                    | 0.15     | 5/8 |
|     | VO 0447     | Sweet corn (corn-on-the-cob)                  | 0.15     | 5/8 |
|     | GC 0653     | Triticale                                     | 0.3      | 5/8 |
|     | AS 0653     | Triticale straw and fodder, dry               | 30       | 5/8 |
|     | GC 0654     | Wheat   | 0.3      | 5/8 |
|     | CM 0654     | Wheat bran, unprocessed                       | 1        | 5/8 |
|     | AS 0654     | Wheat straw and fodder, dry                   | 30       | 5/8 |
| 257 | <b>MCPA</b> |   |          |     |
|     | GC 0640     | Barley  | 0.2      | 5/8 |
|     | AS 0640     | Barley straw and fodder, dry                  | 50       | 5/8 |
|     | MO 0105     | Edible offal (mammalian)                      | 3        | 5/8 |
|     | PE 0112     | Eggs  | 0.05 (*) | 5/8 |
|     | SO 4711     | Flax-seed                                     | 0.01 (*) | 5/8 |
|     | AS 0162     | Hay or fodder (dry) of grasses                | 500      | 5/8 |
|     | GC 0645     | Maize   | 0.01 (*) | 5/8 |
|     | AS 0645     | Maize fodder (dry)                            | 0.3      | 5/8 |
|     | MF 0100     | Mammalian fats (except milk fats)             | 0.2      | 5/8 |
|     | MM 0095     | Meat (from mammals other than marine mammals) | 0.1      | 5/8 |
|     | ML 0106     | Milks   | 0.04     | 5/8 |
|     | AS 0647     | Oat straw and fodder, Dry                     | 50       | 5/8 |
|     | GC 0647     | Oats  | 0.2      | 5/8 |
|     | VD 0072     | Peas (dry)                                    | 0.01 (*) | 5/8 |
|     | PO 0111     | Poultry, edible offal of                      | 0.05 (*) | 5/8 |
|     | PF 0111     | Poultry fats                                  | 0.05 (*) | 5/8 |
|     | PM 0110     | Poultry meat                                  | 0.05 (*) | 5/8 |
|     | GC 0650     | Rye   | 0.2      | 5/8 |
|     | AS 0650     | Rye straw and fodder, Dry                     | 50       | 5/8 |
|     | GC 0653     | Triticale                                     | 0.2      | 5/8 |
|     | AS 0653     | Triticale straw and fodder, Dry               | 50       | 5/8 |

|     |                     |   |                |     |                                     |
|-----|---------------------|---|----------------|-----|-------------------------------------|
|     | GC 0654             | Wheat   | 0.2            | 5/8 |                                     |
|     | AS 0654             | Wheat straw and fodder, Dry   | 50             | 5/8 |                                     |
| 259 | <b>Sedaxane</b>     |   |                |     |                                     |
|     | GC 0640             | Barley  | 0.01 (*)       | 5/8 |                                     |
|     | AS 0640             | Barley straw and fodder, Dry  | 0.1            | 5/8 |                                     |
|     | MO 0105             | Edible offal (mammalian)  | 0.01 (*)       | 5/8 |                                     |
|     | PE 0112             | Eggs  | 0.01 (*)       | 5/8 |                                     |
|     | MF 0100             | Mammalian fats (except milk fats)   | 0.01 (*)       | 5/8 |                                     |
|     | MM 0095             | Meat (from mammals other than marine mammals)                                   | 0.01 (*) (fat) | 5/8 |                                     |
|     | FM 0183             | Milk fats   | 0.01 (*)       | 5/8 |                                     |
|     | ML 0106             | Milks   | 0.01 (*)       | 5/8 |                                     |
|     | AS 0647             | Oat straw and fodder, Dry   | 0.1            | 5/8 |                                     |
|     | GC 0647             | Oats  | 0.01 (*)       | 5/8 |                                     |
|     | PO 0111             | Poultry, Edible offal of  | 0.01 (*)       | 5/8 |                                     |
|     | PF 0111             | Poultry fats  | 0.01 (*)       | 5/8 |                                     |
|     | PM 0110             | Poultry meat  | 0.01 (*)       | 5/8 |                                     |
|     | SO 0495             | Rape seed   | 0.01 (*)       | 5/8 |                                     |
|     | GC 0650             | Rye   | 0.01 (*)       | 5/8 |                                     |
|     | AS 0650             | Rye straw and fodder, Dry   | 0.1            | 5/8 |                                     |
|     | VD 0541             | Soya bean (dry)   | 0.01 (*)       | 5/8 |                                     |
|     | GC 0653             | Triticale   | 0.01 (*)       | 5/8 |                                     |
|     | AS 0653             | Triticale straw and fodder, Dry   | 0.1            | 5/8 |                                     |
|     | GC 0654             | Wheat   | 0.01           | 5/8 |                                     |
|     | AS 0654             | Wheat straw and fodder, Dry   | 0.1            | 5/8 |                                     |
| 260 | <b>Ametoctradin</b> |   |                |     |                                     |
|     | VB 0040             | Brassica (Cole or Cabbage)<br>Vegetables, Head Cabbage,<br>Flowerhead Brassicas | 9              | 5/8 |                                     |
|     | VS 0624             | Celery  | 20             | 5/8 |                                     |
|     | VC 0424             | Cucumber  | 0.4            | 5/8 |                                     |
|     | DF 0269             | Dried grapes (=currants, raisins<br>and sultanas)                               | 20             | 5/8 |                                     |
|     | PE 0112             | Eggs  | 0.03 (*)       | 5/8 |                                     |
|     | VO 0050             | Fruiting vegetables other than<br>cucurbits                                     | 1.5            | 5/8 | (except sweet corn and<br>mushroom) |
|     | VC 0045             | Fruiting vegetables, Cucurbits  | 3              | 5/8 | (except cucumber)                   |
|     | VA 0381             | Garlic  | 1.5            | 5/8 |                                     |
|     | FB 0269             | Grapes  | 6              | 5/8 |                                     |
|     | DH 1100             | Hops, Dry   | 30             | 5/8 |                                     |
|     | VL 0053             | Leafy vegetables  | 50             | 5/8 |                                     |
|     | VA 0385             | Onion, Bulb   | 1.5            | 5/8 |                                     |
|     | HS 0444             | Peppers Chili, dried  | 15             | 5/8 |                                     |

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|         |                          |          |     |
|---------|--------------------------|----------|-----|
| VR 0589 | Potato                   | 0.05     | 5/8 |
| PO 0111 | Poultry, Edible offal of | 0.03 (*) | 5/8 |
| PF 0111 | Poultry fats             | 0.03 (*) | 5/8 |
| PM 0110 | Poultry meat             | 0.03 (*) | 5/8 |
| VA 0388 | Shallot                  | 1.5      | 5/8 |
| VA 0389 | Spring Onion             | 20       | 5/8 |

## APPENDIX IV

## CODEX MAXIMUM RESIDUE LIMITS FOR PESTICIDES RECOMMENDED FOR

## (Revocation of Codex MRLs)

|    | <u>Commodity</u>                                       | <u>MRL (mg/kg)</u> |       | <u>Step</u> | <u>Note</u> |
|----|--|--------------------|-------|-------------|-------------|
| 25 | <b>Dichlorvos</b>                                      |                    |       |             |             |
|    | GC 0080 Cereal grains                                  | 5                  | Po    | CXL-D       |             |
|    | CM 0654 Wheat bran, unprocessed                        | 10                 |       | CXL-D       |             |
|    | CF 1211 Wheat flour                                    | 1                  |       | CXL-D       |             |
|    | CF 1210 Wheat germ                                     | 10                 |       | CXL-D       |             |
|    | CF 1212 Wheat wholemeal                                | 2                  |       | CXL-D       |             |
| 26 | <b>Dicofol</b>   |                    |       |             |             |
|    | VD 0071 Beans (dry)                                    | 0.1                |       | CXL-D       |             |
|    | MO 0812 Cattle, Edible offal of                        | 1                  |       | CXL-D       |             |
|    | MM 0812 Cattle meat                                    | 3                  | (fat) | CXL-D       |             |
|    | FS 0013 Cherries                                       | 5                  |       | CXL-D       |             |
|    | FC 0001 Citrus fruits                                  | 5                  |       | CXL-D       |             |
|    | VP 0526 Common bean (pods and/or immature seeds)       | 2                  |       | CXL-D       |             |
|    | SO 0691 Cotton seed                                    | 0.1                |       | CXL-D       |             |
|    | OC 0691 Cotton seed oil, Crude                         | 0.5                |       | CXL-D       |             |
|    | OR 0691 Cotton seed oil, Edible                        | 0.5                |       | CXL-D       |             |
|    | VC 0424 Cucumber                                       | 0.5                |       | CXL-D       |             |
|    | PE 0112 Eggs   | 0.05               |       | CXL-D       |             |
|    | FB 0269 Grapes   | 5                  |       | CXL-D       |             |
|    | DH 1100 Hops, Dry                                      | 50                 |       | CXL-D       |             |
|    | VC 0046 Melons, except watermelon                      | 0.2                |       | CXL-D       |             |
|    | ML 0106 Milks  | 0.1                | F     | CXL-D       |             |
|    | FS 0247 Peach  | 5                  |       | CXL-D       |             |
|    | TN 0672 Pecan  | 0.01 (*)           |       | CXL-D       |             |
|    | VO 0051 Peppers  | 1                  |       | CXL-D       |             |
|    | HS 0444 Peppers Chili, dried                           | 10                 |       | CXL-D       |             |
|    | FS 0014 Plums (including prunes)                       | 1                  |       | CXL-D       |             |
|    | PO 0111 Poultry, Edible offal of                       | 0.05 (*)           |       | CXL-D       |             |
|    | PM 0110 Poultry meat                                   | 0.1                | (fat) | CXL-D       |             |
|    | DF 0014 Prunes   | 3                  |       | CXL-D       |             |
|    | VC 0431 Squash, summer                                 | 1                  |       | CXL-D       |             |
|    | DT 1114 Tea, Green, Black (black, fermented and dried) | 50                 |       | CXL-D       |             |
|    | TN 0678 Walnuts  | 0.01 (*)           |       | CXL-D       |             |
| 81 | <b>Chlorothalonil</b>                                  |                    |       |             |             |
|    | FI 0327 Banana   | 0.01 (*)           |       | CXL-D       |             |

|     |                    |  |         |          |
|-----|--------------------|--|---------|----------|
| 96  | <b>Carbofuran</b>  |  |         |          |
|     | FI 0327            | Banana   | 0.1 (*) | CXL-D    |
| 112 | <b>Phorate</b>     |  |         |          |
|     | VR 0589            | Potato   | 0.2     | CXL-D    |
| 119 | <b>Fenvalerate</b> |  |         |          |
|     | AL 1020            | Alfalfa fodder   | 20      | CXL-D    |
|     | VP 0061            | Beans, except broad bean and soya bean   | 1       | CXL-D    |
|     | VP 0062            | Beans, Shelled   | 0.1     | CXL-D    |
|     | FB 0018            | Berries and other small fruits   | 1       | CXL-D    |
|     | VB 0400            | Broccoli   | 2       | CXL-D    |
|     | VB 0402            | Brussels sprouts   | 2       | CXL-D    |
|     | VB 0041            | Cabbages, Head   | 3       | CXL-D    |
|     | VB 0404            | Cauliflower  | 2       | CXL-D    |
|     | VS 0624            | Celery   | 2       | CXL-D    |
|     | GC 0080            | Cereal grains  | 2       | Po CXL-D |
|     | FS 0013            | Cherries   | 2       | CXL-D    |
|     | VL 0466            | Chinese cabbage (type pack-choi)   | 1       | CXL-D    |
|     | FC 0001            | Citrus fruits  | 2       | CXL-D    |
|     | SO 0691            | Cotton seed  | 0.2     | CXL-D    |
|     | OC 0691            | Cotton seed oil, Crude   | 0.1     | CXL-D    |
|     | OR 0691            | Cotton seed oil, Edible  | 0.1     | CXL-D    |
|     | VC 0424            | Cucumber   | 0.2     | CXL-D    |
|     | VL 0480            | Kale (including among others: Collards, Curly kale, Scotch kale, thousand-headed kale; not including Marrow-stem kele) | 10      | CXL-D    |
|     | FI 0341            | Kiwifruit  | 5       | CXL-D    |
|     | VL 0482            | Lettuce, Head  | 2       | CXL-D    |
|     | VC 0046            | Melons, except watermelon  | 0.2     | CXL-D    |
|     | FS 0247            | Peach  | 5       | CXL-D    |
|     | SO 0703            | Peanut, whole  | 0.1     | CXL-D    |
|     | VP 0064            | Peas, shelled (succulent seeds)  | 0.1     | CXL-D    |
|     | HS 0444            | Peppers chili, dried   | 5       | CXL-D    |
|     | VO 0445            | Peppers, sweet (including pimento or pimienta)   | 0.5     | CXL-D    |
|     | FP 0009            | Pome fruits  | 2       | CXL-D    |
|     | VR 0075            | Root and tuber vegetables  | 0.05    | CXL-D    |
|     | VD 0541            | Soya bean (dry)  | 0.1     | CXL-D    |
|     | VC 0431            | Squash, summer   | 0.5     | CXL-D    |
|     | SO 0702            | Sunflower seed   | 0.1     | CXL-D    |
|     | VO 0447            | Sweet corn (corn-on-the-cob)   | 0.1     | CXL-D    |
|     | VO 0448            | Tomato   | 1       | CXL-D    |

|            |   |      |       |       |                 |
|------------|---|------|-------|-------|-----------------|
| TN 0085    | Tree nuts   | 0.2  |       | CXL-D |                 |
| VC 0432    | Watermelon  | 0.5  |       | CXL-D |                 |
| CM 0654    | Wheat bran, Unprocessed                                   | 5    | PoP   | CXL-D |                 |
| CF 1211    | Wheat flour   | 0.2  | PoP   | CXL-D |                 |
| CF 1212    | Wheat wholemeal   | 2    | PoP   | CXL-D |                 |
| VC 0433    | Winter squash   | 0.5  |       | CXL-D |                 |
| <b>157</b> | <b>Cyfluthrin/beta-cyfluthrin</b>                         |      |       |       |                 |
| MO 0098    | Kidney of cattle, goats, pigs and sheep                   | 0.05 |       | CXL-D |                 |
| MO 0099    | Liver of cattle, goats, pigs & sheep                      | 0.05 |       | CXL-D |                 |
| MM 0095    | Meat (from mammals other than marine mammals)             | 1    | (fat) | CXL-D |                 |
| ML 0106    | Milks   | 0.04 |       | CXL-D |                 |
| <b>175</b> | <b>Glufosinate-Ammonium</b>                               |      |       |       |                 |
| AM 0660    | Almond hulls  | 0.5  |       | CXL-D |                 |
| VS 0621    | Asparagus   | 0.05 | (*)   | CXL-D |                 |
| FI 0030    | Assorted tropical and sub-tropical fruits - inedible peel | 0.05 | (*)   | CXL-D | Except banana   |
| FB 0018    | Berries and other small fruits                            | 0.1  |       | CXL-D | Except currants |
| VD 0523    | Broad bean (dry)  | 2    |       | CXL-D |                 |
| VR 0577    | Carrot  | 0.05 | (*)   | CXL-D |                 |
| FC 0001    | Citrus fruits   | 0.1  |       | CXL-D |                 |
| VD 0526    | Common bean (dry)   | 2    |       | CXL-D |                 |
| VP 0526    | Common bean (pods and/or immature seeds)                  | 0.05 | (*)   | CXL-D |                 |
| VL 0470    | Corn salad  | 0.05 | (*)   | CXL-D |                 |
| FB 0021    | Currants, black, red, white                               | 0.5  |       | CXL-D |                 |
| PE 0112    | Eggs  | 0.05 | (*)   | CXL-D |                 |
| GC 0645    | Maize   | 0.1  |       | CXL-D |                 |
| AS 0645    | Maize fodder (dry)  | 10   |       | CXL-D |                 |
| MM 0095    | Meat (from mammals other than marine mammals)             | 0.05 | (*)   | CXL-D |                 |
| ML 0106    | Milks   | 0.02 | (*)   | CXL-D |                 |
| VA 0385    | Onion, Bulb   | 0.05 |       | CXL-D |                 |
| VD 0072    | Peas (dry)  | 3    |       | CXL-D |                 |
| FP 0009    | Pome fruits   | 0.05 | (*)   | CXL-D |                 |
| VR 0589    | Potato  | 0.5  |       | CXL-D |                 |
| PO 0111    | Poultry, edible offal of                                  | 0.1  | (*)   | CXL-D |                 |
| PM 0110    | Poultry meat  | 0.05 | (*)   | CXL-D |                 |
| SO 0495    | Rape seed   | 5    |       | CXL-D |                 |
| OC 0495    | Rape seed oil, crude                                      | 0.05 | (*)   | CXL-D |                 |
| FS 0012    | Stone fruits  | 0.05 | (*)   | CXL-D |                 |
| VR 0596    | Sugar beet  | 0.05 | (*)   | CXL-D |                 |
| SO 0702    | Sunflower seed  | 5    |       | CXL-D |                 |

|     |                        |   |           |       |
|-----|------------------------|---|-----------|-------|
|     | OC 0702                | Sunflower seed oil, crude   | 0.05 (*)  | CXL-D |
|     | TN 0085                | Tree nuts   | 0.1       | CXL-D |
| 176 | <b>Hexythiazox</b>     |   |           |       |
|     | FB 0275                | Strawberry  | 0.5       | CXL-D |
| 179 | <b>Cycloxydim</b>      |   |           |       |
|     | VD 0071                | Beans (dry)   | 2         | CXL-D |
|     | VB 0040                | Brassica (Cole or Cabbage)<br>Vegetables, Head Cabbage,<br>Flowerhead Brassicas | 2         | CXL-D |
|     | VR 0577                | Carrot  | 0.5       | CXL-D |
|     | VP 0526                | Common bean (pods and/or immature<br>seeds)                                     | 1         | CXL-D |
|     | FB 0269                | Grapes  | 0.5       | CXL-D |
|     | VL 0482                | Lettuce, head   | 0.2       | CXL-D |
|     | VL 0483                | Lettuce, leaf   | 0.2       | CXL-D |
|     | VP 0063                | Peas (pods and succulent=immature<br>seeds)                                     | 1         | CXL-D |
|     | VP 0064                | Peas, shelled (succulent seeds)   | 2         | CXL-D |
|     | VR 0589                | Potato  | 2         | CXL-D |
|     | SO 0495                | Rape seed   | 2         | CXL-D |
|     | VD 0541                | Soya bean (dry)   | 2         | CXL-D |
|     | FB 0275                | Strawberry  | 0.5       | CXL-D |
|     | VR 0596                | Sugar beet  | 0.2       | CXL-D |
| 189 | <b>Tebuconazole</b>    |   |           |       |
|     | FP 0009                | Pome fruits   | 0.5       | CXL-D |
| 197 | <b>Fenbuconazole</b>   |   |           |       |
|     | MF 0812                | Cattle fat  | 0.05 (*)  | CXL-D |
|     | MO 1280                | Cattle kidney   | 0.05 (*)  | CXL-D |
|     | MO 1281                | Cattle liver  | 0.05      | CXL-D |
|     | MM 0812                | Cattle meat   | 0.05 (*)  | CXL-D |
|     | FP 0009                | Pome fruits   | 0.1       | CXL-D |
| 206 | <b>Imidacloprid</b>    |   |           |       |
|     | VD 0072                | Peas (dry)  | 2         | CXL-D |
| 209 | <b>Methoxyfenozide</b> |   |           |       |
|     | FC 0001                | Citrus fruits   | 0.7       | CXL-D |
|     | MO 0105                | Edible offal (mammalian)  | 0.1       | CXL-D |
|     | MF 0100                | Mammalian fats (except milk fats)   | 0.2       | CXL-D |
|     | MM 0095                | Meat (from mammals other than<br>marine mammals)                                | 0.2 (fat) | CXL-D |
| 210 | <b>Pyraclostrobin</b>  |   |           |       |
|     | OR 0004                | Orange oil, edible  | 10        | CXL-D |



|     |                        |   |           |       |
|-----|------------------------|---|-----------|-------|
| 211 | <b>Fludioxonil</b>     |   |           |       |
|     | VD 0541                | Soya bean (dry)                               | 0.01      | CXL-D |
|     | SO 0702                | Sunflower seed                                | 0.01      | CXL-D |
| 213 | <b>Trifloxystrobin</b> |   |           |       |
|     | FB 0275                | Strawberry                                    | 0.2       | CXL-D |
|     | VR 0596                | Sugar beet                                    | 0.05      | CXL-D |
| 216 | <b>Indoxacarb</b>      |   |           |       |
|     | VL 0483                | Lettuce, leaf                                 | 15        | CXL-D |
| 229 | <b>Azoxystrobin</b>    |   |           |       |
|     | DV 0604                | Ginseng, dried including red ginseng          | 0.5       | CXL-D |
| 234 | <b>Spirotetramate</b>  |   |           |       |
|     | ML 0106                | Milks   | 0.005 (*) | CXL-D |
| 243 | <b>Fluopyram</b>       |   |           |       |
|     | MO 0105                | Edible offal (mammalian)                      | 0.7       | CXL-D |
|     | MM 0095                | Meat (from mammals other than marine mammals) | 0.1       | CXL-D |
|     | ML 0106                | Milks   | 0.07      | CXL-D |
| 251 | <b>Saflufenacil</b>    |   |           |       |
|     | VD 0071                | Beans (dry)                                   | 0.3       | CXL-D |
|     | VD 0072                | Peas (dry)                                    | 0.05      | CXL-D |
|     | VD 0541                | Soya bean (dry)                               | 0.07      | CXL-D |

## APPENDIX V

## DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Retained at Step 7)

|     | <u>Commodity</u>                                       | <u>MRL (mg/kg)</u> | <u>Source</u> | <u>Step</u> | <u>Note</u> |
|-----|--|--------------------|---------------|-------------|-------------|
| 90  | <b>Chlorpyrifos-Methyl</b>                             |                    |               |             |             |
|     | GC 0640 Barley   | 10                 | Po            | 7           |             |
|     | GC 0640 Barley   | 3                  | Po            | 7           |             |
|     | GC 0647 Oats   | 10                 | Po            | 7           |             |
|     | GC 0649 Rice   | 10                 | Po            | 7           |             |
|     | GC 0654 Wheat  | 3                  | Po            | 7           |             |
|     | CM 0654 Wheat bran, unprocessed                        | 6                  | PoP           | 7           |             |
|     | CF 1210 Wheat germ                                     | 5                  | PoP           | 7           |             |
| 126 | <b>Oxamyl</b>  |                    |               |             |             |
|     | FC 0001 Citrus fruits                                  | 3                  |               | 7           |             |
|     | VC 0424 Cucumber                                       | 1                  |               | 7           |             |
|     | VC 0046 Melons, except watermelon                      | 1                  |               | 7           |             |
|     | VO 0051 Peppers  | 5                  |               | 7           |             |
| 178 | <b>Bifenthrin</b>                                      |                    |               |             |             |
|     | FI 0345 Mango  | 0.5                |               | 7           |             |
|     | VO 0442 Okra   | 0.2                |               | 7           |             |
|     | FI 0350 Papaya   | 0.4                |               | 7           |             |
| 189 | <b>Tebuconazole</b>                                    |                    |               |             |             |
|     | VP 0526 Common bean (pods and/or immature seeds)       | 2                  |               | 7           |             |
| 212 | <b>Metalaxyl-M</b>                                     |                    |               |             |             |
|     | 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 (including pimento or pimiento) | 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           |             |
| 224 | <b>Difenoconazole</b>                                  |                    |               |             |             |
|     | FI 0350 Papaya   | 0.3                |               | 7           |             |
| 238 | <b>Clothianidin</b>                                    |                    |               |             |             |
|     | VR 0075 Root and tuber vegetables                      | 0.2                | C,T           | 7           |             |
| 240 | <b>Dicamba</b>   |                    |               |             |             |
|     | VD 0541 Soya bean (dry)                                | 5                  |               | 7           |             |

## APPENDIX VI

## PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Retained at Step 4)

| <u>Commodity</u>   | <u>MRL (mg/kg)</u> | <u>Source</u> | <u>Step</u> | <u>Note</u>     |
|--|--------------------|---------------|-------------|-----------------|
| <b>143 Triazophos</b>  |                    |               |             |                 |
| CM 0649 Rice, husked   | 2                  |               | 4           |                 |
| <b>175 Glufosinate-Ammonium</b>  |                    |               |             |                 |
| FI 0327 Banana   | 0.2                |               | 4           |                 |
| MO 0105 Edible offal (mammalian)   | 3                  |               | 4           |                 |
| FI 0341 Kiwifruit  | 0.6                |               | 4           |                 |
| VL 0483 Lettuce, leaf  | 0.4                |               | 4           |                 |
| VD 0541 Soya bean (dry)  | 3                  |               | 4           |                 |
| <b>178 Bifenthrin</b>  |                    |               |             |                 |
| FB 0275 Strawberry   | 3                  |               | 4           |                 |
| <b>243 Fluopyram</b>   |                    |               |             |                 |
| VO 0051 Peppers  | 0.5                |               | 4           |                 |
| HS 0444 Peppers chili, dried   | 5                  |               | 4           |                 |
| <b>252 Sulfoxaflor</b>   |                    |               |             |                 |
| FC 0001 Citrus fruits  | 0.9                |               | 4           |                 |
| FP 0009 Pome fruits  | 0.4                |               | 4           |                 |
| FS 0012 Stone fruits   | 3                  |               | 4           | except cherries |
| TN 0085 Tree nuts  | 0.015              |               | 4           |                 |
| <b>253 Penthiopyrad</b>  |                    |               |             |                 |
| AL 1020 Alfalfa fodder   | 20                 | (DM)          | 4           |                 |
| AM 0660 Almond hulls   | 6                  | (DM)          | 4           |                 |
| GC 0640 Barley   | 0.15               |               | 4           |                 |
| AS 0640 Barley straw and fodder, dry   | 80                 | (DM)          | 4           |                 |
| VB 0041 Cabbages, head   | 4                  |               | 4           |                 |
| AB 1204 Cotton gin trash   | 20                 | (DM)          | 4           |                 |
| SO 0691 Cotton seed  | 0.5                |               | 4           |                 |
| PE 0112 Eggs   | 0.03               |               | 4           |                 |
| GC 0645 Maize  | 0.01               |               | 4           |                 |
| CF 1255 Maize flour  | 0.05               |               | 4           |                 |
| AS 0645 Maize fodder (dry)   | 10                 | (DM)          | 4           |                 |
| OC 0645 Maize oil, crude   | 0.15               |               | 4           |                 |
| GC 0646 Millet (Including Barnyard Millet,<br>Bulrush Millet, Common Millet,<br>Finger Millet, Foxtail Millet, Little<br>Millet) | 0.8                |               | 4           |                 |
| AS 0646 Millet fodder, dry   | 10                 | (DM)          | 4           |                 |
| VL 0485 Mustard greens   | 50                 |               | 4           |                 |
| AS 0647 Oat straw and fodder, dry  | 80                 | (DM)          | 4           |                 |

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|         |                                 |      |      |   |
|---------|---------------------------------|------|------|---|
| GC 0647 | Oats                            | 0.15 |      | 4 |
| AL 0072 | Pea hay or pea fodder (dry)     | 60   | (DM) | 4 |
| SO 0697 | Peanut                          | 0.05 |      | 4 |
| AL 0697 | Peanut fodder                   | 30   | (DM) | 4 |
| OR 0697 | Peanut oil, edible              | 0.5  |      | 4 |
| FP 0009 | Pome fruits                     | 0.4  |      | 4 |
| PO 0111 | Poultry, edible offal of        | 0.03 |      | 4 |
| PF 0111 | Poultry fats                    | 0.03 |      | 4 |
| PM 0110 | Poultry meat                    | 0.03 |      | 4 |
| SO 0495 | Rape seed                       | 0.5  |      | 4 |
| OC 0495 | Rape seed oil, crude            | 1    |      | 4 |
| OR 0495 | Rapeseed oil, edible            | 1    |      | 4 |
| GC 0650 | Rye                             | 0.04 |      | 4 |
| AS 0650 | Rye straw and fodder, dry       | 80   | (DM) | 4 |
| GC 0651 | Sorghum                         | 0.8  |      | 4 |
| AS 0651 | Sorghum straw and fodder, dry   | 10   | (DM) | 4 |
| VD 0541 | Soya bean (dry)                 | 0.3  |      | 4 |
| AL 0541 | Soya bean fodder                | 200  | (DM) | 4 |
| VR 0596 | Sugar beet                      | 0.5  |      | 4 |
| SO 0702 | Sunflower seed                  | 1.5  |      | 4 |
| GC 0653 | Triticale                       | 0.04 |      | 4 |
| AS 0653 | Triticale straw and fodder, dry | 80   |      | 4 |
| GC 0654 | Wheat                           | 0.04 |      | 4 |
| CF 0654 | Wheat bran, processed           | 0.1  |      | 4 |
| CF 1210 | Wheat germ                      | 0.1  |      | 4 |
| AS 0654 | Wheat straw and fodder, dry     | 80   | (DM) | 4 |

## APPENDIX VII

## PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

## (Withdrawal of Codex MRLs in the Step Procedure)

|     | <u>Commodity</u>                    | <u>MRL (mg/kg)</u> | <u>Step</u> | <u>Note</u>    |
|-----|-------------------------------------|--------------------|-------------|----------------|
| 112 | <b>Phorate</b>                      |                    |             |                |
|     | VR 0589 Potato                      | 0.5                | MRL-W       |                |
| 157 | <b>Cyfluthrin/beta-cyfluthrin</b>   |                    |             |                |
|     | VB 0041 Cabbages, Head              | 4                  | MRL-W       |                |
| 175 | <b>Glufosinate-Ammonium</b>         |                    |             |                |
|     | SO 0702 Sunflower seed              | 3                  | MRL-W       |                |
|     | OC 0702 Sunflower seed oil, crude   | 0.05 (*)           | MRL-W       |                |
| 189 | <b>Tebuconazole</b>                 |                    |             |                |
|     | FP 0009 Pome fruits                 | 1                  | MRL-W       |                |
| 209 | <b>Methoxyfenozone</b>              |                    |             |                |
|     | VA 0389 Spring Onion                | 6                  | MRL-W       |                |
| 229 | <b>Azoxystrobin</b>                 |                    |             |                |
|     | DM 0604 Ginseng, extracts           | 0.5                | MRL-W       |                |
|     | DM 0604 Ginseng, processed products | 0.5                | MRL-W       |                |
| 234 | <b>Spirotetramate</b>               |                    |             |                |
|     | ML 0106 Milks                       | 0.01               | MRL-W       |                |
| 246 | <b>Acetamiprid</b>                  |                    |             |                |
|     | VL 0053 Leafy vegetables            | 3                  | MRL-W       | except spinach |
|     | VL 0053 Leafy vegetables            | 3                  | MRL-W       | except spinach |
|     | VL 0502 Spinach                     | 5                  | MRL-W       |                |
| 252 | <b>Sulfoxaflor]</b>                 |                    |             |                |
|     | VL 0473 Watercress                  | 6                  | MRL-W       |                |

## APPENDIX VIII

**PRINCIPLES AND GUIDANCE FOR APPLICATION OF THE PROPORTIONALITY CONCEPT FOR ESTIMATION OF  
MAXIMUM RESIDUE LIMITS FOR PESTICIDES**

(to be included in the Procedural Manual as an Annex to the  
Risk Analysis Principles Applied by the Codex Committee on Pesticide Residues)

1. Use of the concept for soil, seed and foliar treatments has been confirmed by analysis of residue data. Active substances confirmed included insecticides, fungicides, herbicides, and plant growth regulators, except desiccants.
2. The proportionality concept can be applied to data from field trials conducted within a rate range of between 0.3x and 4x the GAP rate. This is only valid when quantifiable residues occur in the dataset. Where there are no quantifiable residues, i.e. values are less than the limit of quantitation may only be scaled down. It is unacceptable to scale up in this situation.
3. The variation associated with residue values derived using this approach can be considered to be comparable to using data selected according to the  $\pm 25\%$  rule for application rate.
4. Scaling is only acceptable if the application rate is the only deviation from critical GAP (cGAP). In agreement with JMPR practice, additional use of the  $\pm 25\%$  rule for other parameters such as PHI is not acceptable. For additional uncertainties introduced, e.g. use of global residue data, these need to be considered on a case-by-case basis so that the overall uncertainty of the residue estimate is not increased.
5. Proportionality cannot be used for post-harvest situations at this time. It is also recommended that the concept is not used for hydroponic situations due to lack of data.
6. Proportionality can be applied for both major and minor crops. The main difference between minor and major crops is the number of trials required by national/regional authorities, which has no direct relevance to the proportionality of residues. If scaling is applied on representative crops, there is no identified concern with extrapolation to other members of an entire crop group or subgroup.
7. Regarding processed commodities, it is assumed that the processing factor is constant within an application rate range and resulting residues in the commodity being processed. Therefore existing processing factors can also be used for scaled datasets.
8. With respect to exposure assessments, no restrictions appear to be necessary. The approach may be used for distribution of residues in peel and pulp, provided the necessary information for scaling is available from each trial. Scaled datasets for feeds may also be used for dietary burden calculations for livestock.
9. The approach may be used where the dataset is otherwise insufficient to make an MRL recommendation. This is where the concept provides the greatest benefit. The concept has been used by JMPR and different national authorities on a case-by-case basis and in some cases MRLs may be estimated from trials where all of the data (100%) has been scaled.
10. Although the concept can be used on large datasets containing 100% scaled residue trials, at least 50% of trials at GAP may be requested on a case-by-case basis depending for example on the range of scaling factors. In addition, some trials at GAP might be useful as confirmatory data to evaluate the outcome in cases where the uses result in residue levels leading to a significant dietary exposure.

## APPENDIX IX

**CONSEQUENTIAL AMENDMENTS TO MAXIMUM RESIDUE LIMITS FOR PESTICIDES FOR FRUIT COMMODITY GROUPS  
DUE TO THE REVISION OF THE CLASSIFICATION OF FOOD AND FEED AS PER THESE COMMODITY GROUPS  
(for adoption)**

**Citrus fruits**

The subgroups of the Citrus fruits group should be inserted:

- Group 001A Lemons and Limes
- Group 001B Mandarins
- Group 001C Oranges, Sweet, Sour
- Group 001D Pummelos

The existing commodities should be divided among the subgroups according to the revised classification.

The 4000 codes should be deleted for (only the Codes)

- FC 4000 Bigarade
- FC 4001 Blood orange
- FC 4002 Chinotto
- FC 4003 Chironja
- FC 4005 Clementine
- FC 4006 Cleopatra mandarin
- FC 4007 Dancy or Dancy mandarin
- FC 4008 King mandarin
- FC 4014 Mediterreanean mandarin
- FC 4016 Myrtle-leaf orange
- FC 4019 Orange, Bitter
- FC 4020 Pomelo
- FC 4022 Satsuma
- FC 4024 Seville Orange
- FC 4029 Tangelo, large-sized cultivars
- FC 4031 Tangelo, small and medium sized cultivars
- FC 4033 Tangelolo
- FC 4027 Tangerine
- FC 4035 Tangors
- FC 4037 Tankan mandarin
- FC 4039 Ugli
- FC 4041 Willowleaf mandarin

New codes should be inserted in subgroup 001A Lemons and Limes:

- FC 2201 Australian blood lime
- FC 2202 Australian desert lime
- FC 2203 Australian round lime
- FC 2204 Brown River finger lime
- FC 2205 Lime, sweet
- FC 2206 Kaffir lime
- FC 2207 Limequats
- FC 2208 Mount White lime
- FC 2209 New guinea wild lime
- FC 2210 Russel River lime
- FC 2211 Tahiti lime
- FC 2212 Yuzu

New codes should be inserted in subgroup 001B Mandarins:

- FC 2213 Unshu orange

New codes should be inserted in subgroup 001C Oranges:

FC 2214 Trifoliolate orange

The code for Kumquats should be changed to FC 0303 and this commodity should be inserted in the subgroups 001A Lemons and limes. (Kumquats is moved from the Assorted Tropical and sub-tropical fruits – edible peel)

Group MRLs for the pesticides listed in Annex in Citrus fruits or Lemons and limes are not applied to Kumquat.

New references should be inserted in:

Subgroup 001A Lemons and limes:

Kumquat Marumi - reference to Kumquats FC 0303

Kumquat Nagami - reference to Kumquats FC 0303

Mexican lime - reference to lime FC 0205

Yuja - reference to Yuzu FC 2212

Subgroup 001C Oranges, Sweet, Sour:

Bergamot - reference to Oranges, Sweet, Sour FC 0207

Tachibana orange- reference to Oranges, Sweet, Sour FC 0207

Ugli should be changed in Ugli/Uniq fruit(=tangelo)

### **Pome fruits**

The 4000 codes should be deleted for (only the Codes)

FP 4044 Japanese medlar

FP 4047 Nashi pear

FP 4049 Pear, Oriental

FP 4051 Sand pear

New codes should be inserted:

FP 2220 Azarole

FP 2221 Chinese quince

FP 2222 Mayhaw

FP 2223 Tejocote

FP 2224 Wild pear

The code for Persimmon, Japanese should be changed to FP 0307 and this commodity should be inserted in this group.

New references should be inserted:

Kaki or Kaki fruit – reference to Persimmon, Japanese

Persimmon, Chinese - reference to Persimmon, Japanese

### **Stone fruits**

The subgroups of the Stone fruits group should be inserted:

Group 003A Cherries

Group 003B Plums

Group 003C Peaches

The existing commodities should be divided among the subgroups according to the revised classification.

The 4000 codes should be deleted for (only the Codes):

FS 4053 Chickasaw plum

FS 4055 Damsons (Damson plum)

FS 4056 Greengages (Greengageplums)

FS 4057 Mirabelle

FS 4059 Myrobolan plum

FS 4061 Plum, American

FS 4063 Plum, Damson

FS 4065 Plum, Greengage

FS 4069 Plum, Japanese

FS 4071 Plum, Mirabelle

FS 4072 Prunes



New codes should be inserted in subgroup 003A Cherries:

- FS 2230 Cherry, black
- FS 2231 Cherry, Nanking
- FS 2232 Choke cherry

New codes should be inserted in subgroup 003B Plums:

- FS 2233 Klamath plum
- FS 2234 Plum
- FS 2235 Plum, beach
- FS 2236 Plumcot

New codes should be inserted in subgroup 003C Peaches:

- FS 2001 Peaches
- FS 2237 Japanese apricot

The code for Jujube, Chinese should be changed to FS 0302 and this commodity should be inserted in the subgroups 003B Plums

The code FS 0246 is deleted. This commodity is included in Cherry, sour. Only a reference stay in the Classification

New references should be inserted in subgroup 003A Cherries:

- Capulin – reference to Cherry, black FS 2230
- Cherry, tart – reference to Cherry, sour FS 0243

### **Berries and other small fruits**

The subgroups of the Berries and other small fruits group should be inserted:

- Group 004A Cane berries
- Group 004B Bushberries
- Group 004C Large shrub/tree berries
- Group 004D Small fruit vine climbing
- Group 005E Low growing berries

The existing commodities should be divided among the subgroups according to the revised classification.

The 4000 codes should be deleted for (only the Codes):

- FB 4073 Blueberry, highbush
- FB 4075 Blueberry, lowbush
- FB 4077 Blueberry, rabbiteye
- FB 4079 Boysenberry
- FB 4081 Cowberry
- FB 4083 Huckleberries
- FB 4085 Loganberry
- FB 4087 Olallie berry
- FB 4091 Strawberry, musky
- FB 4093 Whortleberry, red
- FB 4094 Youngberry

New codes should be inserted in:

Subgroup 004B Bushberries:

- FB 2006 Bushberries
- FB 2240 Agritos
- FB 2241 Aronia berries
- FB 2242 Buffalo currant
- FB2243 Chilean guava
- FB 2244 European barberry
- FB 2245 Huckleberries
- FB 2246 Jostaberries
- FB 2247 Native currant
- FB 2248 Riberies
- FB 2249 Salal
- FB 2250 Sea buckthorn

## Subgroup 004C Large shrub/tree berries:

- FB 2007 Large shrub/tree berries
- FB 2251 Bayberries
- FB 2252 Buffaloberry
- FB 2253 Che
- FB 2254 Guelder rose
- FB 2255 Phalsa
- FB 2256 Silverberry, Russian

## Subgroup 004D Small fruit vine climbing

- FB 2008 Small fruit vine climbing
- FB 2257 Arguta kiwifruit
- FB 2258 Amur river grape
- FB 2259 Schisandraberri

## Subgroup 004E Low growing berries

- FB 2009 Low growing berries
- FB 2260 Muntries
- FB 2261 Partridge berry

## New references should be inserted in:

## Group 004A Cane berries:

- Korean Black Raspberry – reference to Raspberries, Red, Black FB 0272
- Korean Raspberry – reference to Raspberries, Red, Black FB 0272

## Group 004C Large shrub/tree berries:

- Rowan – reference to Service berries FB 0274

## Group 004D Small fruit vine climbing:

- Tara vine- reference to Arguta kiwifruit FB 2255

## Group 004E Low growing berries:

- Bakeapple – reference to Cloudberry FB 0277
- Squaw vine – reference to Partridge berry FB 2260

**Assorted tropical and sub-tropical fruits- edible peel**

The subgroups of the Assorted tropical and sub-tropical fruits – edible peel should be inserted:

- Group 005A Assorted tropical and sub-tropical fruits – edible peel - small
- Group 005B Assorted tropical and sub-tropical fruits – edible peel – medium to large
- Group 005C Assorted tropical and sub-tropical fruits – edible peel – palms

The existing commodities should be divided among the subgroups according to the revised classification.

The 4000 codes should be deleted for (only the Codes):

- FT 4095 Acerola
- FT 4097 Aonla
- FT 4099 Brazilian cherry
- FT 4101 Icaco plum
- FT 4103 Java almond
- FT 4111 Locust tree
- FT 4115 Pitanga
- FT 4117 Pomarosa
- FT 4119 Pomerose, Malay
- FT 4121 St. John's bread
- FT 4125 Tree strawberry

The following codes should be deleted in this group:

|         |                     |  |
|---------|---------------------|--|
| FT 0302 | Jujube, Chinese     | (moved to Stone fruit group)   |
| FT 4105 | Kaki or kaki fruit  | (moved to Pome fruit group)  |
| FT 0303 | Kumquats            | (moved to Citrus fruit group)  |
| FT 4107 | Kumquat, Marumi     | (moved to Citrus fruit group)  |
| FT 4109 | Kumquat, Nagami     | (moved to Citrus fruit group)  |
| FT 4113 | Persimmon, Chinese  | (moved to Pome fruit group)  |
| FT 0307 | Persimmon, Japanese | (moved to Pome fruit group)  |
| FT 4123 | Tamarillo           | (moved to Assorted tropical and sub-tropical fruits – inedible peel) |
| FT 0312 | Tree tomato         | (moved to Assorted tropical and sub-tropical fruits – inedible peel) |

New codes should be inserted in:

Subgroup 005A Assorted tropical and sub-tropical fruits – edible peel – small:

|         |   |
|---------|---|
| FT 2011 | Assorted tropical and sub-tropical fruits – edible peel - small |
| FF 2300 | African plum  |
| FT 2301 | Almondette  |
| FT 2302 | Apple berry   |
| FT 2303 | Bayberry, red   |
| FT 2304 | Bignay  |
| FT 2305 | Breadnut  |
| FT 2306 | Cabeluda  |
| FT 2307 | Carandas plum   |
| FT 2308 | Ceylon iron wood  |
| FT 2309 | Ceylon olive  |
| FT 2310 | Cherry-of-the-Rio-Grande  |
| FT 2311 | Chiraulinut   |
| FT 2312 | False sandalwood  |
| FT 2313 | Fragrant manjack  |
| FT 2314 | Gooseberry, Abyssinian  |
| FT 2315 | Gosseberry, Ceylon  |
| FT 2316 | Governor's plum   |
| FT 2317 | Guabiroba   |
| FT 2318 | Guava berry   |
| FT 2319 | Illawara plum   |
| FT 2320 | Jamaica cherry  |
| FT 2321 | Kaffir plum   |
| FT 2322 | Kakadu plum   |
| FT 2323 | Kapundung   |
| FT 2324 | Lemon aspen   |
| FT 2326 | Monos plum  |
| FT 2327 | Mountain cherry   |
| FT 2328 | Persimmon, Black  |
| FT 2329 | Pitomba   |
| FT 2330 | Rumberry  |
| FT 2331 | Sete-capotes  |
| FT 2332 | Silver aspen  |
| FT 2333 | Water apple   |
| FT 2334 | Water berry   |
| FT 2335 | Water pear  |

New references should be inserted in:

Group 005A Assorted tropical and sub-tropical fruits – edible peel – small::

- Camu-camu – reference to Rumberry FT 0289
- Herbert river cherry – reference to Bignay FT 2304
- Indian plum – reference to Governor's plum FT 2316
- Maya breadfruit – reference to Breadnut, FT 2305
- Mombin, yellow – reference to Hog plum FT 0299
- Olives, table – reference to Table olives FT 0305
- Olives for oil production, reference to group 23 Oilseeds
- Plum-of-Martinique – reference to Governor's plum FT 2316
- Rukam - reference to Governor's plum FT 2316
- Wax jambu – reference to Java apple FT 0340
- Yumberry – reference to Bayberry red FT 2303

Subgroup 005B Assorted tropical and sub-tropical fruits – edible peel – medium to large:

- FT 2012 Assorted tropical and sub-tropical fruits – edible peel – medium to large
- FT 2350 Arazá
- FT 2351 Babaco
- FT 2352 Cajou (pseudofruit)
- FT 2353 Cambucá
- FT 2354 Ciruela verde
- FT 2355 Davidson plum
- FT 2456 Gooseberry, Indian
- FT 2357 Guava, Brazilian
- FT 2358 Guava, Cattley
- FT 2359 Guava, Costa Rican
- FT 2360 Guava., Para
- FT 2361 Guayabillo
- FT 2362 Imbé
- FT 2363 Imbu
- FT 2364 Kwai muk
- FT 2365 Mangaba
- FT 2366 Marian Plum
- FT 2367 Mombin, Malayan
- FT 2368 Mombin, purple
- FT 2369 Monkeyfruit
- FT 2370 Nance
- FT 2371 Noni
- FT 2372 Papaya, Mountain
- FT 2373 Rambai
- FT 2374 Uvalha

New references should be inserted in:

Group 005A Assorted tropical and sub-tropical fruits – edible peel – medium to large:

- Aonla – reference to Gooseberry, Indian FT 2356 (Aonla was referenced to Otaheite gosseberry)
- Indian mulberry – reference to Noni FT 2371
- Muriti –reference to Nance FT 2370
- Purple strawberry guava – refrence to Guava, Cattley FT 2358
- Strawberry guava – refrence to Guava, Cattley FT 2358
- Umbu – refrence to Imbu FT 2363
- Yellow strawberry guava – refrence to Guava, Cattley FT 2358

Subgroup 005 C Assorted tropical and sub-tropical fruits, edible peel –palms:

- FT 2013 Assorted tropical and sub-tropical fruits, edible peel –palms
- FT 2400 Açaí
- FT 2401 Apak palm
- FT 2402 Bacaba palm
- FT 2403 Bacaba-de-legue
- FT 2404 Jelly palm
- FT 2405 Patauá
- FT 2406 Peach palm

New references should be inserted in:

Subgroup 005 C Assorted tropical and sub-tropical fruits, edible peel –palms:

Assai palm – reference to Açaí FT 2400

Other changes:

FT 0260 Caranda changes in: FT 0260 Karanda

#### **Assorted tropical and sub-tropical fruits- inedible peel**

The subgroups of the Assorted tropical and sub-tropical fruits – inedible peel should be inserted:

- Group 006A Assorted Tropical and subtropical fruits - inedible peel - small
- Group 006B Assorted Tropical and subtropical fruits - inedible peel - Medium to Large Fruits, Smooth peel
- Group 006C Assorted Tropical and subtropical fruits - inedible peel - Medium to Large Fruits, Rough or Hairy Peel
- Group 006D Assorted Tropical and subtropical fruits - inedible peel - Cactus
- Group 006E Assorted Tropical and subtropical fruits - inedible peel - Vines
- Group 006F Assorted Tropical and subtropical fruits - inedible peel – Tropical palm fruits

The existing commodities should be divided among the subgroups according to the revised classification.

The 4000 codes should be deleted for (only the Codes):

- FI 4127 Chinese Gooseberry
- FI 4129 Egg fruit
- FI 4131 Genip
- FI 4132 Granddilla (new code)
- FI 4134 Guanabana
- FI 4133 Indian fig
- FI 4136 Indian wood apple
- FI 4135 Lulo
- FI 4138 Malay apple
- FI 4137 Mangosteen
- FI 4139 Papaw or Pawpaw
- FI 4141 Persimmon, Japanese
- FI 4143 Pineapple guava
- FI 4145 Quito orange
- FI 4147 Sesso vegetal (referende deleted)
- FI 4149 Strawberry peach
- FI 4151 Sweetsop

New codes should be inserted in:

Subgroup 006A Assorted Tropical and subtropical fruits - inedible peel - small

- FI 2450 Aisen
- FI 2451 Beal fruit
- FI 2452 Burmese grape
- FI 2453 Ingá

|         |                       |
|---------|-----------------------|
| FI 2454 | Madras-thorn          |
| FI 2455 | Manduro               |
| FI 2456 | Matisa                |
| FI 2457 | Mesquite              |
| FI 2458 | Mongongo              |
| FI 2459 | Pawpaw, Small-flower  |
| FI 2460 | Satinleaf             |
| FI 2561 | Sierra leone-tamarind |
| FI 2562 | Velvet tamarind       |
| FI 2563 | Wampi                 |
| FI 2564 | White star apple      |

New references should be inserted in:

Subgroup 006A Assorted Tropical and subtropical fruits - inedible peel - small

Cat's eyes – reference to Longan FI 0342

New codes should be inserted in:

Subgroup 006B Assorted Tropical and subtropical fruits - inedible smooth peel – large

|         |   |
|---------|---|
| FI 2022 | Assorted Tropical and subtropical fruits - inedible smooth peel – large |
| FI 2480 | Abiu  |
| FI 2481 | Bacuri  |
| FI 2482 | Binjai  |
| FI 0715 | Cacao   |
| FI 2483 | Cupuaçu   |
| FI 2484 | Etambe  |
| FI 2485 | Jatobá  |
| FI 2486 | Kei apple   |
| FI 2487 | Kokam   |
| FI 2488 | Langsat   |
| FI 2489 | Lanjut  |
| FI 2490 | Lucuma  |
| FI 2491 | Mabolo  |
| FI 2492 | Mango, Horse  |
| FI 2493 | Mango, Saipan   |
| FI 2494 | Paho  |
| FI 2495 | Pawpaw  |
| FI 2496 | Pelipisan   |
| FI 2497 | Pequi   |
| FI 2498 | Quandong  |
| FI 2499 | Sataw   |
| FI 2500 | Tamarind-of-the-Indies  |
| FI 2501 | Wild loquat   |

New added commodity:

Tamarillo from edible peel!

New references should be inserted in:

Subgroup 006B Assorted Tropical and subtropical fruits - inedible smooth peel – large

Tree tomato – reference to Tamarillo FI 0312

Deleted code:

- FI 0324 Annatto (moved to Spices group)
- FI 5298 Achiote (reference to Annatto)
- FI 4128 Chinese persimmon (moved to pomefruit group)
- FI 0328 Banana dwarf (Only stays as a reference to Banana FI 0327)
- FI 0354 Plantain (Only stays as a reference to Banana FI 0327)

New codes should be inserted in:

Subgroup 006C Assorted Tropical and subtropical fruits - inedible rough or hairy peel – large

- FI 2023 Assorted Tropical and subtropical fruits - inedible rough or hairy peel – large
- FI 2520 Atemoya
- FI 2521 Biriba
- FI 2522 Campedak
- FI 2523 Marang
- FI 2524 Monkey-bread tree
- FI 2525 Poshte
- FI 2526 Screwpine
- FI 2527 Soncoya
- FI 2528 Sun sapote

New references should be inserted in:

Subgroup 006C Assorted Tropical and subtropical fruits - inedible rough or hairy peel – large

- Baobab fruit – reference to Monkey-bread tree

New codes should be inserted in:

Subgroup 006D Assorted Tropical and subtropical fruits - inedible peel – cactus

- FI 2024 Assorted Tropical and subtropical fruits - inedible peel – cactus
- FI 2540 Pitaya
- FI 2541 Saguaro

New references should be inserted in:

Subgroup 006D Assorted Tropical and subtropical fruits - inedible peel – cactus

- Dragon fruit - reference to Pitaya FI 2540

New codes should be inserted in:

Subgroup 006E Assorted Tropical and subtropical fruits - inedible peel – vines

- FI 2025 Assorted Tropical and subtropical fruits - inedible peel – vines
- FI 2560 Garanadilla
- FI 2561 Grandilla, giant
- FI 2562 Monstera
- FI 2563 Passionflower, Winged-stem
- FI 2564 Passion fruit, Banana

New codes should be inserted in:

Subgroup 006F Assorted Tropical and subtropical fruits - inedible peel – palms

- FI 2026 Assorted Tropical and subtropical fruits - inedible peel – palms
- FI 2580 Coconut, young
- FI 2581 Guriri
- FI 2582 Morichepalm fruit
- FI 2583 Muriti
- FI 2584 Palmyra palm fruit
- FI 2585 Salak

## ANNEX

**Pesticides whose Group MRLs for Citrus fruits or Lemons and limes are not applied to Kumquat**

| <b>Pesticide</b>    | <b>Codex code</b> |
|---------------------|-------------------|
| Buprofezin          | 173               |
| Carbaryl            | 8                 |
| Chlorpyrifos        | 17                |
| Chlorpyrifos-methyl | 90                |
| Clothianidin        | 238               |
| Cypermethrins       | 118               |
| Dimethoate          | 27                |
| Fenpyroximate       | 193               |
| Imidacloprid        | 206               |
| Lambda-cyhalothrin  | 146               |
| Malathion           | 49                |
| Methomyl            | 94                |
| Phosmet             | 103               |
| Pirimicarb          | 101               |
| Prochloraz          | 142               |
| Pyraclostrobin      | 210               |
| Tebufenozide        | 196               |
| Thiabendazole       | 65                |
| Tiamethoxam         | 245               |



## APPENDIX X

## DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED

(At Step 7)

**Brassica vegetables (except Brassica leafy vegetables)****Class A****Type 2                      Vegetables    Group 010    Group Letter Code VB**

Brassica (cole or cabbage) vegetables and flowerhead brassicas are foods derived from the leafy heads, stems and immature inflorescences of plants belonging to the genus *Brassica* of the family Cruciferae. Although Kohlrabi does not comply fully with the description above, for convenience and because of the similarity in residue behaviour the commodity is classified in this group. Kohlrabi is a tuber-like enlargement of the stem.

The edible part of the crop is partly protected from pesticides applied during the growing season by outer leaves, or skin (Kohlrabi).

The entire vegetable after discarding obviously decomposed or withered leaves may be consumed.

It is proposed to divide this group in 3 subgroups:

10A Flowerhead Brassicas

10B Head Brassicas

10C Stem Brassicas

Portion of the commodity to which the MRL applies (and which is analysed): **Head cabbages and Kohlrabi: Whole commodity as marketed, after removal of obviously decomposed or withered leaves. Cauliflower and broccoli: flower heads (immature inflorescence only). Brussels sprouts: "buttons" only. Kohlrabi: "tuber-like enlargement of the stem" only.**

**Group 010 Brassica vegetables (except Brassica leafy vegetables)**

| <u>Code NO.</u> | <u>Commodity</u>  |
|-----------------|---|
| VB 0040         | <b>Brassica vegetables (except Brassica leafy vegetables)</b><br>(includes all commodities in this group) |

**Group 10A                      Flowerhead Brassicas**

| <u>Code NO.</u> | <u>Commodity</u>   |
|-----------------|--|
| VB 0042         | <b>Flowerhead brassicas</b> (includes Broccoli and Cauliflower)  |
| VB 0400         | <b>Broccoli</b><br><i>Brassica oleracea</i> L. var. <i>italica</i> Plenck                                      |
| -               | <b>Broccoli, Chinese</b> , See Leafy vegetables Group 13   |
| -               | <b>Broccoli, Sprouting</b> , see Broccoli, VB 0400   |
| VB 0404         | <b>Cauliflower</b><br><i>Brassica oleracea</i> L. var. <i>botrytis</i> L., several cultivars (white and green) |

- **Cauliflower, Green**, see Cauliflower, VB 0404

- **Kailan**, see Broccoli, Chinese

- **Romanesco broccoli**, See Cauliflower, VB 0404

**Group 10B                      Head Brassicas**

| <u>Code NO.</u> | <u>Commodity</u>  |
|-----------------|---|
| VB 2036         | <b>Head Brassicas</b><br>(includes all commodities in this group) |

|         |   |
|---------|---|
| VB 0041 | <b>Cabbages, Head</b><br><i>Brassica oleracea</i> L. var. <i>capitata</i> L., several var. and cvs.<br>(includes Savoy cabbage and Chinese cabbage) |
|---------|---|

- VB 0402            **Brussels sprouts**  
                       *Brassica oleracea* L. var. *gemmifera* (DC.) Zenker
- **Cabbage**, see Cabbages, Head, VB 0041
- **Cabbage, Green**, see Cabbage, Savoy
- **Cabbage, Red**, see Cabbages, Head, VB 0041  
                       *Brassica oleracea* L. *capitata* L., var. *rubra*
- **Cabbage, Oxhead**, see Cabbages, Head, VB 0041  
                       *Brassica oleracea* L. *capitata* L., var. *alba*, *forma conica*
- **Cabbage, Pointed**, see Cabbage, Oxhead
- **Cabbage, White**, see Cabbages, Head, VB 0041  
                       *Brassica oleracea* L. *capitata* L., var. *alba*
- VB 0403            **Cabbage, Savoy**, see also Cabbages, Head, VB 0041  
                       *Brassica oleracea* L. var. *sabauda* L.
- **Cabbage, Yellow**, see Cabbage, Savoy, VB 0403
- **Celery cabbage**, see Chinese cabbage, (type Pe-tsai), VB 0467
- VB 0467            **Chinese cabbage**, (type Pe-tsai)  
                       *Brassica rapa* L. *subsp. pekinensis* (Lour.) Hanelt  
                       syn: *B. pekinensis* (Lour.) Rupr.
- **Chinese cabbage (napa)**, see Chinese cabbage, (type Pe-tsai), VB 0467
- **Kimchi cabbage**, see Chinese cabbage (type Pe-tsai), VB 0467  
                       *Brassica rapa* L. *subsp. pekinensis* (Lour.) Hanelt  
                       syn: *Brassica rapa* L. var. *glabra* Regel
- **Napa cabbage**, See Chinese cabbage (type Pe-tsai), VB 0467
- **Pak-tsai**, see Chinese cabbage, (type Pe-tsai), VB 0467

#### Group 10C Stem Brassicas

##### Code No.

##### Commodity

- VB 0405            **Kohlrabi**  
                       *Brassica oleracea* L var. *gongylodes* L.

- VB 2640.           **Stem mustard**  
                       *Brassica juncea* var. *tsatsai* Mao

#### Leafy vegetables (including Brassica leafy vegetables)

##### Class A

##### Type 2            Vegetables    Group 013 Group Letter Code VL

Group 013 Leafy vegetables are foods derived from the leaves of a wide variety of edible plants, usually annuals or biennials. They are characterized by high surface: weight ratio. The leaves are fully exposed to pesticides applied during the growing season.

The entire leaf may be consumed, either fresh or after processing or household cooking.

It is proposed to divide this group in 9 subgroups:

013A Leafy greens

013B Brassica Leafy vegetables

013C Leaves of root and tuber vegetables

013D Leaves of trees, shrubs and vines

013E Leafy aquatic vegetables

013F Witloof

013G Leaves of Cucurbitaceae

013H Baby leaves

013I Sprouts

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity as usually marketed, after removal of obviously decomposed or withered leaves.**

**Group 013 Leafy vegetables (including Brassica leafy vegetables)**

**Code No.**                      **Commodity**  
VL 0053                      **Leafy vegetables**

**Group 013A    Leafy greens**

**Code No.**                      **Commodity**  
VL 2050                      **Leafy greens**

(Includes all commodities in this subgroup)

VL 2711                      **African Eggplant leaves**

*Solanum macrocarpon* L.

VL2740                      **African nightshade**

*Solanum villosum* Mill.; *S. americanum* Mill.; *S. nigrum* L.

VL 2741                      **Agretti**

*Salsola soda* Weinm.

VL 0460                      **Amaranth leaves**

*Amaranthus* spp.; including *A. spinosus* L.; *A. dubius* C. Mart. ex. Thell.; *A. hypochondriacus* L.;  
*A. cruentus* L.; *A. viridis* L.; *A. tricolor* L. *A. mangostanus* L.

VL 2742                      **Aster, Indian**

*Kalimeris indica* (L.) Sch. Bip.

VL 2743                      **Ayoyo**

*Tricizanthos cucumeria*

VL 0520                      **Bambara groundnut leaves**

*Voandzeia subterranean* (L.) Verdc.

VL 0640                      **Barley shoot**

*Hordeum vulgare* L.

-                              **Beet leaves**, see Chard, VL 0464

-                              **Bireumnamul**, see amaranth leaves VL 0460

VL 2744                      **Bitawiri**

*Cestrum latifolium* Lam.

VL 2745                      **Bitter leaf**

*Vernonia* hybrids

VL 2746                      **Blackjack**

*Bidens pilosa* L.

-                              **Bledo**, see *Amaranth leaves*, VL 0460

VL 0462                      **Boxthorn**

*Lycium chinense* Mill.

- **Buckhorn plantain**, See Plantain leaves, VL 0490  
*Plantago lanceolata* L.
- **Bush greens**, See Amaranth leaves, VL 0460  
*Amaranthus cruentus* L.
- VL 2747 **Cat's Whiskers**  
*Cleome gynandra* L.
- VL 2748 **Chamchwi**  
*Doellingeria scabra* (Thunb.) Nees  
syn: *Aster scaber* Thunb.
- VL 2749 **Chamnamul**  
*Pimpinella calycina* Maxim  
syn: *Pimpinella brachycarpa* (Kom.) Nakai;
- VL 2750 **Chamssuk**  
*Artemisia dubia* Wall. Ex DC.
- VL 0464 **Chard**  
*Beta vulgaris* L. subsp. *vulgaris* var. *vulgaris*; *Beta vulgaris* L. subsp. *vulgaris* var. *cicla*
- VL 0465 **Chervil**  
*Anthriscus cerefolium* (L.) Hoffmann
- VL 0469 **Chicory leaves** (green and red cultivars)  
*Cichorium intybus* L., var. *foliosum* Hegi
- VL 0444 **Chili pepper leaves**  
*Capsicum annum* L.
- **Chinese amaranth**, See Amaranth leaves, VL 0460  
*Amaranthus tricolor* L.
- VL 2751 **Chipilin**  
*Crotalaria lingirostrata* Hook & Arn.
- VL 2752 **Chrysanthemum, edible leaved**  
*Glebionis* spp.
- **Chrysanthemum, garland**, See Chrysanthemum, edible leaved, VL 2752  
*Glebionis coronaria* (L.) Cass. ex Spach;
- VL 0526 **Common bean leaves**  
*Phaseolus vulgaris* L.
- **Common plantain**, see Plantain leaves, VL 0490  
*Plantago major* L.
- **Corn chrysanthemum**, see Chrysanthemum, edible leaved, VL 2752  
*Glebionis segetum* (L.) Fourr
- VL 0470 **Corn salad**  
*Valerianella* spp.
- VL 0510 **Cos lettuce**  
*Lactuca sativa* L. var. *longifolia* Lam.

|         |   |
|---------|---|
| VL 2753 | <b>Cosmos</b><br><i>Cosmos caudatus</i> Kunth   |
| VL 0527 | <b>Cowpea leaves</b><br><i>Vigna unguiculata</i> (L.) Walp.   |
| -       | <b>Crisphead lettuce</b> , see Lettuce, Head, VL 0482   |
| -       | <b>Cutting lettuce</b> , see Lettuce, Leaf, VL 0483   |
| VL 0474 | <b>Dandelion</b><br><i>Taraxacum officinale</i> F.H. Wigg. aggr.  |
| VL 2754 | <b>Danggwi</b><br><i>Angelica gigas</i> Nakai   |
| VL 2600 | <b>Daylily leaves</b><br><i>Hemerocallis fulva</i> L.   |
| VL 0475 | <b>Dock</b><br><i>Rumex</i> spp.; [ <i>Rumex patienta</i> L.]   |
| VL 2755 | <b>Dolnamul</b><br><i>Sedum sarmentosum</i> Bunge   |
| VL 2756 | <b>Ebolo</b><br><i>Crassocephalum crepidioides</i> (Benth.) S. Moore  |
| VL 0476 | <b>Endive</b><br><i>Cichorium endivia</i> L.  |
| -       | <b>Endive, broad or plain leaved</b> , see Endive, VL 0476<br><i>Cichorium endivia</i> L., var. <i>latifolium</i> Lamarck |
| -       | <b>Endive, curled</b> , see Endive, VL 0476<br><i>Cichorium endivia</i> L., var. <i>crispum</i> Lamarck                   |
| VL 0514 | <b>Fame flower</b><br><i>Talinum fruticosum</i> L. Juss.  |
| -       | <b>Fennel</b> , see Group 027 Herbs   |
| VL 0515 | <b>Feather cockcomb</b><br><i>Glinus oppositifolius</i> (L.) Aug. DC.   |
| VL 2757 | <b>Glasswort, common</b><br><i>Salicornia</i> L.  |
| VL 2758 | <b>Godeulppaegi</b><br><i>Crepidiastrum sonchifolium</i> (Bunge) Pak & Kawano   |
| VL 2759 | <b>Gomchwi</b><br><i>Ligularia fischeri</i> Turcz.  |
| -       | <b>Good King Henry</b> , see Goosefoot leaves, VL 0477<br><i>Chenopodium bonus-henricus</i> L.                            |
| VL 0477 | <b>Goosefoot leaves</b><br><i>Chenopodium</i> spp.  |
| -       | <b>Huauzontle</b> , see Goosefoot leaves, VL 0477<br><i>Chenopodium berlandieri</i> Moq.                                  |

|         |   |
|---------|---|
| VL 2760 | <b>Iceplant</b><br><i>Mesembryanthemum crystallinum</i> L.  |
| -       | <b>Italian corn salad</b> , see corn salad, VL 0470<br><i>Valerianella eriocarpa</i> Desv.;                       |
| VL 2761 | <b>Japanese honewort</b><br><i>Cryptotaenia japonica</i> Hassk.   |
| -       | <b>Jew mallow</b> , see Jute, VL 2762<br><i>Corchorus olitorius</i> L.  |
| VL 2762 | <b>Jute</b><br><i>Corchorus</i> spp.  |
| -       | <b>Lambs lettuce</b> , see Corn salad, VL 0470<br><i>Valerianella locusta</i> L.;                                 |
| VL 2763 | <b>Lettuce, bitter</b><br><i>Launaeacornuta</i> (Hochst. ex Oliv. & Hiern) C. Jeffrey                             |
| VL 0482 | <b>Lettuce, Head</b><br><i>Lactuca sativa</i> L., var. <i>capitata</i>  |
| VL 0483 | <b>Lettuce, Leaf</b><br><i>Lactuca sativa</i> L., var. <i>crispa</i> L.;  |
| -       | <b>Lettuce, Red</b> , see Lettuce, Head, VL 0482<br>Red cultivar of <i>Lactuca sativa</i> , var. <i>Capitata</i>  |
| VL 2764 | <b>Mallow leaves</b><br><i>Malva sylvestris</i> L.  |
| VL 0486 | <b>New Zealand spinach</b><br><i>Tetragonia tetragonoides</i> (Pallas) O. Kuntze;<br>syn: <i>T. expansa</i> Murr. |
| VL 0488 | <b>Orach</b><br><i>Atriplex hortensis</i> L.  |
| VL 0697 | <b>Peanut leaves</b><br><i>Arachis hypogea</i> L.   |
| VL 2765 | <b>Perilla leaves</b><br><i>Perilla frutescens</i> (L.) Britton var. <i>frutescens</i>                            |
| VL 0490 | <b>Plantain leaves</b><br><i>Plantago major</i> L.  |
| VL 2766 | <b>Polygonatum leaves</b><br><i>Polygonatum odoratum</i> (Mill.) Druce; <i>Poligonatum</i> spp.                   |
| VL 0492 | <b>Purslane</b><br><i>Portulaca oleracea</i> L., ssp. <i>sativa</i> (Haw) Celak.                                  |
| VL 0493 | <b>Purslane, Winter</b><br><i>Claytonia perfoliata</i> Donn ex Willd.;  |
| -       | <b>Red-leaved chicory</b> , see Chicory leaves, VL 0469   |

|         |   |
|---------|---|
| VL 2767 | <b>Sanmaneul leaves</b><br><i>Allium victorialis</i> L.; syn: <i>A. ochotense</i> Prokh.<br><i>A. microdictyon</i> Prokh. |
| -       | <b>Silver beet</b> , see Chard, VL 0464   |
| -       | <b>Slender amaranth</b> , see Amaranth leaves, VL 0460<br><i>Amaranthus viridis</i> L.                                    |
| VL 0501 | <b>Sowthistle</b><br><i>Sonchus oleraceus</i> L.  |
| VL 0541 | <b>Soya bean leaves</b><br><i>Glycine max</i> (L.) Merr.  |
| VL 2768 | <b>Spider plant</b><br><i>Chlorophytum comosum</i> (Thunb.) Jacques   |
| VL 0502 | <b>Spinach</b><br><i>Spinacia oleracea</i> L.   |
| -       | <b>Spinach beet</b> , see Chard, VL 0464  |
| VL 0503 | <b>Spinach, Indian</b><br><i>Basella alba</i> L.;   |
| -       | <b>Spiny amaranth</b> , see Amaranth leaves, VL 0460<br><i>Amaranthus spinosus</i> L.                                     |
| -       | <b>Spleen amaranth</b> , see Amaranth, VL 0460<br><i>Amaranthus dubius</i> C. Mart. ex. Thell.                            |
| VL 2769 | <b>Seumbagwi</b><br><i>Ixeridium dentatum</i> (Thunb.) Tzvelev  |
| -       | <b>Sugar loaf</b> , see Chicory leaves, VL 0469   |
| -       | <b>Swiss chard</b> , see Chard, VL 0464   |
| VL 2770 | <b>Tanier spinach</b><br><i>Xanthosoma brasiliense</i> (Desf.) Engl.  |
| -       | <b>Tricolor chrysanthemum</b> , see Chrysanthemum, Edible leaved, VL 2752<br><i>Glebionis carinata</i> (Schousb.) Tzvelev |
| -       | <b>Vine spinach</b> , see Spinach, Indian, VL 0503  |
| VL 2771 | <b>Violet, Chinese</b><br><i>Asystasia gangetica</i> (L.) T. Anderson   |
| -       | <b>Warrigal greens</b> , see New Zealand spinach, VL 0486   |
| -       | <b>Young leaves of Wonchuri</b> , see Daylily leaves, VL 2600   |

**Group 013B Brassica leafy vegetables****Code No.****Commodity**

VL 0054

**Leaves of Brassicaceae***Brassica* spp.

(Includes all commodities in this subgroup)

-

**Amsoi**, see Indian Mustard

-

**Arrugula**, see Rucola, VL 0496

-

**Big-stem mustard**, See Mustard greens, VL 0485*Brassica juncea* (L.) Czern subsp. *tsatsai* (T.L. Mao) Gladis

-

**Borecole**, see Kale, curly

|         |  |
|---------|--|
| VL 0401 | <b>Broccoli, Chinese</b><br><i>Brassica oleracea</i> var. <i>alboglabra</i> (L.H. Bailey) Musil  |
| VL 2775 | <b>Broccoli raab</b><br><i>Brassica ruvo</i> L.H. Bailey   |
| VL 2776 | <b>Cabbage, Abyssinian</b><br><i>Brassica carinata</i> A. Braun  |
| VL 2777 | <b>Cabbage, Seakale</b><br><i>Brassica oleracea</i> L. var. <i>costada</i> DC.   |
| -       | <b>Celery mustard</b> , see Pak-choi   |
| VL 0466 | <b>Chinese cabbage (type Pak-choi)</b><br><i>Brassica rapa</i> subsp. <i>chinensis</i> (L.) Hanelt   |
| VL 2778 | <b>Chinese flat cabbage</b><br><i>Brassica rapa</i> subsp. <i>narinosa</i> (L.H. Bailey) Hanelt  |
| -       | <b>Chinese kale</b> , see Broccoli, Chinese, VL 0401   |
| -       | <b>Choisum</b> , see Flowering white cabbage, VL 0468  |
| -       | <b>Collards</b> , see Kale, VL 0480  |
| VL 0472 | <b>Cress, Garden</b><br><i>Lepidium sativum</i> L.; <i>L. virginicum</i> L.  |
| VL 2779 | <b>Cress, Upland</b><br><i>Barbarea vulgaris</i> W.T. Aiton; <i>B. Verna</i> (Mill.) Asch.   |
| -       | <b>Curly Kale</b> , see Kale, curly  |
| -       | <b>Field mustard greens</b> , See Rape greens, VL 0495<br><i>Brassica napus</i> L. subsp. <i>trilocularis</i> (Roxb.) Hanelt;<br><i>Brassica napus</i> L. subsp. <i>dichotoma</i> (Roxb.) Hanelt;<br><i>Brassica napus</i> L. subsp. <i>oleifera</i> Metzg.  |
| -       | <b>Flowering Chinese cabbage</b> , see Flowering white cabbage, VL 0468  |
| VL 0468 | <b>Flowering white cabbage</b><br><i>Brassica rapa</i> L. Subsp. <i>chinensis</i> (L.) Hanelt var. <i>Parachinensis</i> (L.H. Bailey) Hanelt.  |
| -       | <b>Garden cress</b> , see Cress, Garden, VL 0472   |
| VL 2780 | <b>Hanover salad</b><br><i>Brassica napus</i> var. <i>pabularia</i> (DC.) Rchb   |
| -       | <b>Indian mustard</b> , See Mustard greens, VL 0485<br><i>Brassica juncea</i> (L.) Czern.  |
| VL 0480 | <b>Kale</b><br>(including among others: Collards, Curly kale, Scotch kale, Thousand-headed kale, Branching bush kale, Jersey kale; not including Marrow-stem kale, no. AV 1052, see Group 052: Miscellaneous fodder and forage crops, page 108)<br><i>Brassica oleracea</i> L., var. <i>sabellica</i> L. |
| -       | <b>Kale, branching bush</b> , See Kale, VL 0480<br><i>Brassica oleracea</i> L., var. <i>ramosa</i> DC. L   |
| -       | <b>Kale, curly</b> , see Kale, VL 0480<br><i>Brassica oleracea</i> L., convar. <i>acephala</i> (D. C.) Alef., var. <i>sabellica</i> L.   |
| -       | <b>Kale, Jersey</b> , See Kale, VL 0480<br><i>Brassica oleracea</i> L., var. <i>palmifolia</i> DC.   |



|         |   |
|---------|---|
| VL 0405 | <b>Kohlrabi leaves</b><br><i>Brassica oleracea</i> L var. <i>gongylodes</i> L.  |
| VL 2781 | <b>Komatsuna</b><br><i>Brassica rapa</i> L. var. <i>perviridis</i> L.H. Bailey  |
| -       | <b>Land cress</b> , See Cress, Upland, VL 2779<br><i>B. Verna</i> (Mill.) Asch.   |
| -       | <b>Leaf mustard</b> , See Mustard greens, VL 0485<br><i>Brassica juncea</i> (L.) Czern subsp. <i>integrifolia</i> (H. West) Thell.  |
| VL 2946 | <b>Maca leaves</b><br><i>Lepidium meyenii</i> Walp.   |
| VL 0481 | <b>Mizuna</b><br><i>Brassica rapa</i> L. subsp. <i>nipposinica</i> (L.H. Bailey) Hanelt   |
| VL 0485 | <b>Mustard greens</b><br><i>Brassica juncea</i> (L.) Czern  |
| -       | <b>Mustard, Indian</b> , see Indian Mustard   |
| -       | <b>Mustard spinach</b> , see Komatsuma  |
| VL 2782 | <b>Mustard, tuberous rooted, Chinese</b><br><i>Brassica juncea</i> (L.) Czern. Subsp. <i>napiformis</i> (Pailleux & Bois)   |
| -       | <b>Namenia</b> , see Turnip greens, VL 0506   |
| -       | <b>Oil radish greens</b> , See Radish leaves, VL 0494<br><i>Raphanus sativus</i> L var. <i>oleiformis</i> Pers.   |
| -       | <b>Pak-choi or Paksoi</b> , See Chinese cabbage (type Pak-choi), VL 0466  |
| -       | <b>Pak-tsoi or Pak-soi</b> , See Chinese cabbage (type Pak-choi), VL 0466   |
| -       | <b>Peppergrass</b> , See Cress, garden, VL 0472<br><i>Lepidium virginicum</i> L   |
| VL 2783 | <b>Purple-stem mustard</b><br><i>Brassica rapa</i> subsp. <i>chinensis</i> (L.) Hanelt var. <i>purpuraria</i> (L.H. Bailey) Hanelt  |
| VL 0495 | <b>Rape greens</b><br><i>Brassica napus</i> L.  |
| VL 0494 | <b>Radish leaves</b> (including Radish tops)<br><i>Raphanus sativus</i> L., several varieties- <b>Rat-tail radish greens</b> , See Radish leaves, VL 0494<br><i>Raphanus sativus</i> L var. <i>mougri</i> H.J.W. Helm |
| -       | <b>Rocket salad</b> , see Rucola, VL 0496   |
| -       | <b>Roquette</b> , see Rucola, VL 0496   |
| VL 0496 | <b>Rucola</b><br><i>Eruca sativa</i> Mill.  |
| VL 0497 | <b>Rutabaga greens</b><br><i>Brassica napus</i> L., var. <i>napobrassica</i> (L.) Rchb.   |
| VL 2784 | <b>Shepherd's purse</b><br><i>Capsella bursa-pastoris</i> (L.) Medik.   |

|                   |  |
|-------------------|--|
| VL 2785           | <b>Ssam cabbage</b><br><i>Brassica rapa</i> L. subsp. <i>pekinensis</i> (Lour.) Hanelt (non-head type) |
| -                 | <b>Tendergreen</b> , see Turnip greens, VL 0506  |
| -                 | <b>Tsai shim</b> , see Flowering white cabbage, VL 0468  |
| -                 | <b>Tsoi sum</b> , see Flowering white cabbage, VL 0468   |
| VL 0506           | <b>Turnip greens</b><br><i>Brassica rapa</i> L. subsp. <i>rapa</i>                                     |
| VL 2786           | <b>Wasabi leaves</b><br><i>Eutrema japonica</i> (Miq.) Koidz.  |
| VL 2787           | <b>Wild rocket</b><br><i>Diplotaxis tenuifolia</i> (L.) Rchb.  |
| <b>Group 013C</b> | <b>Leaves of root and tuber vegetables</b>   |
| <b>Code No.</b>   | <b>Commodity</b>   |
| VL 2052           | <b>Leaves of root and tuber vegetables</b><br>(Includes all commodities in this subgroup)              |
| VL 2790           | <b>Alexanders leaves</b><br><i>Smyrniolum olusatrum</i> L.   |
| VL 0573           | <b>Arrowroot leaves</b><br><i>Maranta arundinacea</i> L.; several cultivars                            |
| -                 | <b>Beet leaves</b> , see Chard, VL 0464  |
| VL 2940           | <b>Bell flower, Chinese leaves</b><br><i>Platycodon grandiflorus</i> (Jacq.) A. DC.                    |
| -                 | <b>Blue ape leaves</b> , See Tannia leaves, VL 0504<br><i>Xanthosoma violaceum</i> Schott              |
| VL 0463           | <b>Cassava leaves</b><br><i>Manihot esculenta</i> Crantz   |
| -                 | <b>Chinese yam</b> , See Yam leaves, VL 0600<br><i>Dioscorea polystachya</i> Turcz.                    |
| -                 | <b>Greater yam</b> , See Yam leaves, VL 0600<br><i>Dioscorea alata</i> L.                              |
| -                 | <b>Lesser yam</b> , See Yam leaves, VL 0600<br><i>Dioscorea esculenta</i> (Lour.) Burkill              |
| -                 | <b>Mapuey</b> , See Yam leaves, VL 0600<br><i>Dioscorea trifida</i> L.f.                               |
| VL 0592           | <b>Rampion leaves</b><br><i>Campanula rapunculus</i> L.  |
| VL 0498           | <b>Salsify leaves</b><br><i>Tragopogon porrifolium</i> L.; <i>Scorzonera hispanica</i> L.              |
| VL 0508           | <b>Sweet potato, leaves</b><br><i>Ipomoea batatas</i> (L.) Lam.  |

|                        |   |
|------------------------|---|
| VL 0504                | <b>Tannia leaves</b><br><i>Xanthosoma sagittifolium</i> (L.) Schott;<br>syn: <i>X. edule</i> (Mey) Schott; <i>X. xanthorrhizon</i> (Jacq.);<br>C. Koch; <i>Arum sagittaefolium</i> L. |
| VL 0505                | <b>Taro leaves</b><br><i>Colocasia esculenta</i> (L.) Schott  |
| VL 0599                | <b>Ullucu leaves</b><br><i>Ullucus tuberosus</i> Caldas   |
| VL 2795                | <b>Velvet plant leaves</b><br><i>Gynura bicolor</i> (Roxb. ex Willd.) DC.   |
| -                      | <b>White yam</b> , See Yam leaves, VL 0600<br><i>Dioscorea rotundata</i> Poir.  |
| VL 0600                | <b>Yam leaves</b><br><i>Dioscorea</i> spp.  |
| -                      | <b>Yellow yam</b> , See Yam leaves, VL 0600<br><i>Dioscorea cayenensis</i> Lam.   |
| <b>Group 013D</b>      | <b>Leaves of trees, shrubs and vines</b>  |
| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>   |
| VL 2053                | <b>Leaves of trees, shrubs and vines</b><br>(Includes all commodities in this subgroup)   |
| VS 2810                | <b>Acacia shoots</b><br><i>Acacia pennata</i> (L.) Willd.   |
| VL 2811                | <b>Ben moringa leaves</b><br><i>Moringa oleifera</i> Lam.   |
| VL 0269                | <b>Grape leaves</b><br><i>Vitis vinifera</i> L.   |
| -                      | <b>Lead tree</b> , see White lead tree, VL 2814   |
| VL 0517                | <b>Melientha</b><br><i>Melientha suavis</i> Pierre  |
| VL 2524                | <b>Monkey-bread tree leaves</b><br><i>Adansonia digitata</i> L.   |
| VL 2812                | <b>Okazi leaves</b><br><i>Gnetum africanum</i> Welw.; <i>G. Buchholzianum</i> Engl.   |
| VL 0337                | <b>Papaya leaves</b><br><i>Carica papaya</i> L.   |
| VL 0446                | <b>Rosele leaves</b><br><i>Abelmoschus esculentus</i> (L.) Moensch  |
| VL 3295                | <b>Sichuan pepper sprouts</b><br><i>Zanthocylum simulans</i> Hance  |
| VL 2813                | <b>Toona sinensis</b><br><i>Cedrela sinensis</i> (A. Juss.) M. Roem.  |

VL 2814            **White lead tree**  
                       *Leuceana leucocephala* (Lam.) de Wit

**Group 013E    Leafy aquatic vegetables**

**Code No.**            **Commodity**

VL 2054            **Leafy aquatic vegetables**  
                           (Includes all commodities in this subgroup)

VL 0507            **Kangkung**  
                           *Ipomoea aquatica* Forssk.;

-                    **Sunchae**, see Water shield, VL 2820

VL 2820            **Water clover**  
                           *Marsilea crenata* L. Presl.

VL 0473            **Watercress**  
                           *Nasturtium officinale* W.T Aiton

-                    **Water convolvulus**, see Kangkung, VL 0507

VL 0518            **Water mimosa**  
                           *Neptunia Oleracea* Lour.

VL 2821            **Water shield**  
                           *Brasenia schreberi* J.F. Gmel.

-                    **Water spinach**, see Kangkung, VL 0507

**Group 013F    Witloof**

**Code No.**            **Commodity**

VL 0469            **Witloof chicory (sprouts)**  
                           *Cichorium intybus* L., var. *foliosum* Hegi; green, red and white cultivars

**Group 013G    Leaves of Cucurbitaceae**

**Code No.**            **Commodity**

VL 2056            **Leaves of Cucurbitaceae**  
                           (Includes all commodities in this subgroup)

VL 0421            **Balsam pear leaves**  
                           *Momordia charantia* L.

VL 0423            **Chayote leaves**  
                           *Sechium edule* (Jacq.) Sw.

VL 2830            **Ivy gourd**  
                           *Coccinia grandis* (L.) Voigt

VL 2831            **Kahurura**  
                           *Cucumis ficifolius* A. Rich.

VL 0429            **Pumpkin leaves**  
                           *Cucurbita Moschata* Duchesne

**Group 013 H Baby leaves**

**Code No.**            **Commodity**

VL 2057            **Baby leaves**  
                           (Baby crops, which are listed in the leafy vegetable group that are harvested up to 8 true leaf stage)

**Group 013 I Sprouts**

| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>   |
|------------------------|---|
| VL 1020                | <b>Alfalfa sprouts</b><br><i>Medicago sativa</i> L.                                 |
| VL 0536                | <b>Mungbean sprouts</b><br><i>Vigna radiata</i> (L.) R. Wilczek var. <i>radiata</i> |
| VL 2835                | <b>Radish sprouts</b><br><i>Raphanus sativus</i> L., several varieties              |
| VL 1265                | <b>Soya bean sprouts</b><br><i>Glycine max</i> (L.) Merr.]; Separate subgroup?      |

**Stalk and stem vegetables****Class A****Type 2                      Vegetables    Group 017 Group Letter Code VS**

Group 017. Stalk and stem vegetables are the edible stalks, leaf stems or immature shoots, from a variety of annual or perennial plants. Although not actually belonging to this group, globe artichoke (the immature flowerhead) of the family Compositae is included in this group.

Depending upon the part of the crop used for consumption and the growing practices, stalk and stem vegetables are exposed, in varying degrees to pesticides applied during the growing season.

Stalk and stem vegetables may be consumed in whole or in part and in the form of fresh, dried or processed foods.

Commodities in this group are grouped in 3 subgroups:

17A Stalk and stem vegetables - Stems and Petioles subgroup

17B Stalk and stem vegetables - Young shoots subgroup

17C Stalk and stem vegetables – Others

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity as marketed after removal of obviously decomposed or withered leaves. Rhubarb, leaf stems only: globe artichoke, flowerhead only, celery and asparagus, remove adhering soil.**

**Group 017                      Stalk and stem vegetables**

| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>          |
|------------------------|----------------------------------|
| VS 0078                | <b>Stalk and stem vegetables</b> |

**Group 017A                      Stalk and stem vegetables - Stems and Petioles**

| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>  |
|------------------------|--|
| VS 2080                | <b>Stems and petioles</b><br>(Includes all commodities in this subgroup) |
| VS 3020                | <b>Burdock, edible tops</b><br><i>Articum lappa</i> L.                   |
| VS 0623                | <b>Cardoon</b><br><i>Cynara cardunculus</i> L.                           |
| VS 0624                | <b>Celery</b><br><i>Apium graveolens</i> L., var. <i>dulce</i>           |
| -                      | <b>Celery leaves</b> , see Group 027: Herbs                              |

|                        |   |
|------------------------|---|
| VS 0625                | <b>Celtuce</b><br><i>Lactuca sativa</i> L., var. <i>angustina</i> Irish;<br>syn: <i>L. sativa</i> L., var. <i>asparagina</i> Bailey   |
| VS 0380                | <b>Fennel, Bulb</b><br><i>Foeniculum vulgare</i> Mill. subsp. <i>vulgare</i> var. <i>azoricum</i> (Mill.) Thell-  |
| -                      | <b>Fennel, Florance</b> , see Fennel, bulb, VS 0380   |
| VS 3021                | <b>Giant butterbur</b><br><i>Petasites japonicus</i> (Siebold & Zucc.) Maxim  |
| -                      | <b>Fuki</b> , See Giant butterbur, VS 3021  |
| VS 0627                | <b>Rhubarb</b><br>Rheum x hybridum Murray   |
| VS 0508                | <b>Sweet potato, stems</b><br><i>Ipomoea batatas</i> (L.) Lam.  |
| VS 0505                | <b>Taro stems</b><br><i>Colocasia esculenta</i> (L.) Schott   |
| VS 3022                | <b>Zuiki</b><br><i>Colocasia gigantea</i> (Blume) Hook. f.  |
| <b>Group 017B</b>      | <b>Stalk and stem vegetables - Young shoots</b>   |
| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>   |
| VS 2081                | <b>Young shoots</b><br>(Includes all commodities in this subgroup)  |
| VS 3025                | <b>Agave</b><br><i>Agave</i> spp.   |
| VS 0621                | <b>Asparagus</b><br><i>Asparagus officinalis</i> L.   |
| VS 0622                | <b>Bamboo shoots</b><br><i>Arundinaria</i> spp.; <i>Bambusa</i> spp. including <i>B. blumeana</i> ; <i>B. multiplex</i> ; <i>B. oldhamii</i> ; <i>B. textilis</i> ; <i>Chimonobambusa</i> spp.; <i>Dendrocalamus</i> spp., including <i>D. asper</i> ; <i>D. beecheyana</i> ; <i>D. brandisii</i> ; <i>D. giganteus</i> ; <i>D. laetiflorus</i> and <i>D. strictus</i> ; <i>Gigantochloa</i> spp. including <i>G. albociliata</i> ; <i>G. atter</i> ; <i>G. levis</i> ; <i>G. robusta</i> ; <i>Nastus elatus</i> ; <i>Phyllostachys</i> spp.; <i>Thyrsostachys siamensis</i> ; <i>Thyrsostachys oliverii</i> (Poaceae (alt. Gramineae)) |
| VS 3026                | <b>Dokhwal shoot</b><br><i>Aralia continentalis</i> Kitag.  |
| VS 3027                | <b>Dureup young shoot</b><br><i>Aralia elata</i> (Miq.) Seem.   |
| VS 3028                | <b>Eumnamu shoot</b><br><i>Kalopanax septemlobus</i> (Thunb.ex A Murr.) Koidz.  |
| VS 3029                | <b>Ferns, edible</b><br>Including: Black lady fern, <i>Deparia japonica</i> (Thunb.) M. Kato; Bracken fern, <i>Pteridium aquilinum</i> (L.) Kuhn; Broad buckler fern, <i>Dryopteris dilatata</i> (Hoffm.) A. Gray; Cinnamon fern, <i>Osmundastrum cinnamomeum</i> (L.) C. Presl; Lady fern, <i>Athyrium filix-femina</i> (L.) Roth ex Mert.; Leather fern, <i>Acrostichum aureum</i> L.; Mother fern, <i>Diplazium proliferum</i> (Lam.) Thouars; Ostrich fern, <i>Matteuccia struthiopteris</i> (L.) Tod.; Vegetable fern, <i>Diplazium esculentum</i> (Retz.) Sw.; Zenmai fern, <i>Osmunda japonica</i> Thunb.                        |

|                        |   |
|------------------------|---|
| VS 0499                | <b>Kale, sea</b><br><i>Crambe maritima</i> L.   |
| VS 3030                | <b>Udo</b><br><i>Aralia cordata</i> Thunb.  |
| <b>Group 017C</b>      | <b>Stalk and stem vegetables - Others</b>   |
| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>   |
| VS 0620                | <b>Artichoke, globe</b><br><i>Cynara scolymus</i> L.  |
| -                      | <b>Minari</b> , See water-celery, VS 3035   |
| VS 0626                | <b>Palm hearts</b><br>various species including: Peach Palm, <i>Bactris gasipaes</i> Kunth; Palmyra palm, <i>Borassus flabellifera</i> L.; African fan palm, <i>Borassus aethiopum</i> Mart.; Coconut, <i>Cocos nucifera</i> L.; Cabbage palm, <i>Euterpe oleracea</i> Mart.; Wine palm, <i>Raphia</i> spp.; Royal palm, <i>Roystonea oleracea</i> (Jacq.) O.F. Cook; Salak palm, <i>Salacca zalacca</i> (Gaertn.) Voss; Saw palmetto, <i>Serenoa repens</i> (W. Bartram) Small; Cabbage palmetto, <i>Sabal palmetto</i> (Walter) Schult. & Schult. f., (Arecaceae (alt. Palmae)) |
| VS 0356                | <b>Prickly pear pads</b><br><i>Opuntia ficus-indica</i> (L.) Mill.  |
| VS 3035                | <b>Water-celery</b><br><i>Oenanthe javanica</i> (Blume) de Candolle   |

## APPENDIX XI

## PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED

(At Step 5)

## ROOT AND TUBER VEGETABLES

## Class A

## Type 2                      Vegetables    Group 016 Group Letter Code VR

Group 016. Root and tuber vegetables are the starchy enlarged solid roots, tubers, corms or rhizomes, mostly subterranean, of various species of plants, mostly annuals.

The underground location protects the edible portion from pesticides applied to the aerial parts of the crop during the growing season; however the commodities in this group are exposed to pesticide residues from soil treatments and from foliar applications that can be washed away by rain and can move into the soil.

The entire vegetable may be consumed in the form of fresh or processed foods.

This group contains 3 subgroups based on the morphology and growing practise:

16A Root vegetables

16B Tuberous and corm vegetables

16C Aquatic root and tuber vegetables

Portion of the commodity to which the MRL applies (and which is analysed): **Whole commodity after removing tops. Remove adhering soil (e.g. by rinsing in running water or by gentle brushing of the dry commodity).**

**Group 016 Root and tuber vegetables**

| <u>Code No.</u>     | <u>Commodity</u>   |
|---------------------|--|
| VR 0075             | <b>Root and tuber vegetables</b>   |
| <b>Subgroup 16A</b> | <b>Root vegetables</b>   |
| <u>Code No.</u>     | <u>Commodity</u>   |
| VR 2070             | <b>Root vegetables</b><br>(includes all commodities in this subgroup)  |
| -                   | <b>American Ginseng</b> , See Ginseng, VR 0604<br><i>Panax quinquefolius</i> L.  |
| VR 0574             | <b>Beetroot</b><br><i>Beta vulgaris</i> L., var. <i>conditiva</i>  |
| VR 2791             | <b>Bellflower, Chinese</b><br><i>Platycodon grandiflorus</i> (jacq.) A. DC.  |
| -                   | <b>Black caraway</b> , see Cumin, black root, VR 2941  |
| -                   | <b>Black salsify</b> , see Scorzonera, VR 0594   |
| VR 0575             | <b>Burdock, greater or edible</b><br><i>Arctium lappa</i> L.;<br>syn: <i>Lappa officinalis</i> All.; <i>L. major</i> Gaertn. |
| VR 0577             | <b>Carrot</b><br><i>Daucus carota</i> L.   |
| VR 0578             | <b>Celeriac</b><br><i>Apium graveolens</i> L., var. <i>rapaceum</i> (Mill.) Gaudin   |
| VR 0579             | <b>Chervil, Turnip-rooted</b><br><i>Chaerophyllum bulbosum</i> L.  |



|                |   |
|----------------|---|
| VR 0469        | <b>Chicory, roots</b><br><i>Cichorium intybus</i> L.  |
| -              | <b>Chik</b> , see Kudzu, VR 1024  |
| -              | <b>Chinese radish</b> , see Radish, Japanese, VR 0591   |
| VR 2941        | <b>Cumin, black root</b><br><i>Bunium persicum</i> (Boiss.) B. Fedtsch.   |
| -              | <b>Daikon</b> , see Radish, Japanese, VR 0591   |
| VR 2942        | <b>Dandelion root</b><br><i>Taraxacum officinale</i> F.H. Wigg. Aggr.   |
| VR 2943        | <b>Deodeok</b><br><i>Codonopsis lanceolata</i> (Siebold & Zucc.) Trautv.  |
| -              | <b>Doraji</b> , see Bellflower, Chinese, VR 2940  |
| <b>VR 0604</b> | <b>Ginseng</b> (Codex Stan. 295R-2009)<br><i>Panax</i> spp.   |
| VR 0583        | <b>Horseradish</b><br><i>Armoracia rusticana</i> Gaertn. et al<br>syn: <i>Cochlearia armoracia</i> L.; <i>Armoracia lapathifolia</i> Gilib. Ex Usteri |
| -              | <b>Korean Ginseng</b> , see Ginseng, VR 0604<br><i>Panax ginseng</i> C. A. Mey.   |
| VR 1024        | <b>Kudzu</b><br><i>Pueraria lobata</i> (Willd.) Ohwi  |
| VR 2944        | <b>Ladybell root</b><br><i>Adenophora triphylla</i> DC.; <i>Adenophora</i> spp.   |
| VR 2945        | <b>Maca</b><br><i>Lepidium meyenii</i> Walp.  |
| VR 2946        | <b>Madeira vine</b><br><i>Anredera cordifolia</i> (Ten.) Steenis  |
| VR 2947        | <b>Mauka</b><br><i>Mirabilis expansa</i> (Ruiz & Pav.) Standl.  |
| VR 2948        | <b>Murnong</b><br><i>Microseris scapigera</i> (Sol. Ex A. Cunn.) Sch. Bip.  |
| VR 2949        | <b>Mustard, tuberous rooted Chinese</b><br><i>Brassica juncea</i> (L.) Czern. subsp. <i>napiformis</i> (Pailleux & bois) Gladis                       |
| -              | <b>Oyster plant</b> , see Salsify, VR 0498  |
| VR 0587        | <b>Parsley, Turnip-rooted</b><br><i>Petroselinum crispum</i> (Mill.) Nyman ex A.W. Hill var. <i>tuberosum</i>   |
| VR 0588        | <b>Parsnip</b><br><i>Pastinaca sativa</i> L.  |
| VR 2950        | <b>Pencil yam</b><br><i>Vigna lanceolata</i> Benth.   |
| VR 0494        | <b>Radish</b><br><i>Raphanus sativus</i> L. var. <i>sativus</i>   |

|                        |   |
|------------------------|---|
| VR 0590                | <b>Radish, Black</b><br><i>Raphanus sativus</i> L., subvar. <i>niger</i> Pers.  |
| VR 0591                | <b>Radish, Japanese</b><br><i>Raphanus sativus</i> L., var. <i>longipinnatus</i> Bailey                                     |
| VR 0592                | <b>Rampion roots</b><br><i>Campanula rapunculus</i> L.  |
| -                      | <b>Rutabaga</b> , see Swede, VR 0497  |
| -                      | <b>Red beet</b> , see Beetroot, VR 0574   |
| VR 0498                | <b>Salsify</b><br><i>Tragopogon porrifolius</i> L.  |
| -                      | <b>Salsify, Black</b> , see Scorzonera, VR 0594   |
| VR 0593                | <b>Salsify, Spanish</b><br><i>Scolymus hispanicus</i> L.  |
| VR 0594                | <b>Scorzonera</b><br><i>Scorzonera hispanica</i> L.   |
| VR 0595                | <b>Skirret</b><br><i>Sium sisarum</i> L.  |
| VR 0596                | <b>Sugar beet</b><br><i>Beta vulgaris</i> L., var. <i>sacharifera</i> ;<br>syn: <i>B. vulgaris</i> L. var. <i>altissima</i> |
| VR 0497                | <b>Swede</b><br><i>Brassica napus</i> L., var. <i>napobrassica</i> (L.) Reichenbach   |
| VR 2951                | <b>Ti palm</b><br><i>Cordyline fruticosa</i> (L.) A. Chev.  |
| -                      | <b>Turnip</b> , see Swede   |
| VR 0506                | <b>Turnip, Garden</b><br><i>Brassica rapa</i> L., var. <i>rapa</i> ;<br>syn: <i>B. campestris</i> L., var. <i>rapifera</i>  |
| -                      | <b>Turnip, Swedish</b> , see Swede, VR 0497   |
| -                      | <b>Vietnamese ginseng</b> , see Ginseng VR 0604<br><i>Panax vietnamensis</i> Ha & Grusshv.                                  |
| <b>Subgroup 16B</b>    | <b>Tuberous and corm vegetables</b>   |
| <b><u>Code No.</u></b> | <b><u>Commodity</u></b>   |
| VR 2071                | <b>Tuberous and corm vegetables</b><br>(includes all commodities in this subgroup)  |
| -                      | <b>Achira</b> , see Canna, edible, VR 0576  |
| -                      | <b>Ahipa</b> , see Yam bean, VR 0601<br><i>Pachyrhizus ahipa</i> (Wedd.) Parodi   |
| -                      | <b>Ajanhuiri</b> , see Potato, VR 0589<br><i>Solanum ajanhuiri</i> Juz. & Bukasov   |
| VR 0570                | <b>Alocasia</b><br><i>Alocasia macrorrhiza</i> (L.) G Don.;<br><i>A. indica</i> (Lour.) Spach                               |

- VR 2970      **American potato bean**  
*Apios americana* Medik.
- **Andigena**, see Potato, VR 0589  
*Solanum tuberosum* L. subsp. *Andigenum* (Juz. & Bukasov) Hawkes
- VR 0571      **Arracacha**  
*Arracacia xanthorrhiza* Bancr.;  
syn: *A. esculenta* DC.
- VR 0573      **Arrowroot**  
*Maranta arundinacea* L.; several cultivars
- VR 0598      **Arrowroot, Guinea**  
*Calathea allouia* (Aubl.) Lindl.
- VR 2971      **Arrowroot, Polynesian**  
*Tacca leontopetaloides* (L.) Kuntze
- VR 2972      **Banana, Abyssinian**  
*Ensete ventricosum* (Welw.) Cheesman
- **Blue ape**, see Tannia, VR 0504  
*Xanthosoma violaceum* Schott.
- VR 0576      **Canna, edible**  
*Canna indica* L.  
syn: *C. edulis* Ker. Gawl.
- VR 0463      **Cassava**  
*Manihot esculenta* Crantz;  
syn: *M. aipi* Pohl; *M. ultissima* Pohl; *M. dulcis* Pax; *M. palmata* Muell.-Arg.
- **Cassava, Bitter**, see Cassava (Codex Stan. 300-2010, amend 2011), see 0463  
*Manihot esculenta* Crantz, bitter cultivars
- **Cassava, Sweet**, see Cassava (Codex Stan. 238-2003, amend 2011, 0463  
*Manihot esculenta* Crantz, sweet cultivars
- **Chamma**, see Yams, VR 0600  
*Dioscorea japonica* Thunb.
- VR 0423      **Chayote root**  
*Sechium edule* (Jacq.) Swartz
- VR 0584      **Chinese artichoke**  
*Stachys affinis* Bunge  
Syn : *S. sieboldii* Miq.
- VR 2973      **Chinese potato**  
*Plectranthus rotundifolius* (Poir.) Spreng.  
Syn: *Solenostemon rotundifolius* (Poir.) J.K. Morton
- **[Christophine**, see Chayote root, VR 0423] **Delete**
- **Chufa**, see Tiger nut, VR 0580
- **Ckaisalla**, see Potato, VR 0589  
*Solanum juzepczukii* Bukasov
- **Cocoyam**, see Tannia, VR 0504 and Taro, VR 0505

- VR 2974           **Cowpea, wild**  
                     *Vigna vexillata* (L.) A. Rich.
- **Dasheen**, see Taro, VR 0505
- **Eddoe**, see Taro, VR 0505  
                     *Colocasia esculenta* L., var. *antiquorum* (Schott), Hubbard & Rehder;  
                     syn: *C. esculenta*, var. *globifera* Engl. & Krause
- VR 2975           **Earthnut pea**  
                     *Lathyrus tuberosus* L.
- VR 2976           **Elephant foot yam**  
                     *Amorphophallus paeoniifolius* (Dennst.) Nicolson  
                     Syn: *A. campanulatus* (Roxb.) Blume ex Decne
- VR 2977           **Gastrodia tuber**  
                     *Gastrodia elata* Blume
- VR 0530           **Goa bean root**  
                     *Psophocarpus tetragonolobus* (L.) DC.
- **Gruya**, see Canna, edible, VR 0576
- **Japanese artichoke** , see Chinese artichoke, VR 0584
- VR 0585           **Jerusalem artichoke**  
                     *Helianthus tuberosus* L.
- **Jicama**, see Yam bean, VR 0601
- VR 2978           **Kaffir potato**  
                     *Plectranthus esculentus* N. E. Br
- VR 2979           **Konjac**  
                     *Amorphophallus konjac* K. Koch
- **Leren**, see Arrowroot, Guinea, VR 0598
- **Manioc**, see Cassava, VR 0463
- VR 2980           **Mashua**  
                     *Tropaeolum tuberosum* Ruiz & Pav.
- VR 0586           **Oca**  
                     *Oxalis tuberosa* Mol.
- VR 2981           **Pignut**  
                     *Conopodium majus* (Gouan) Loret & Barrandon
- VR 0589           **Potato**  
                     *Solanum tuberosum* L. and other potato species
- **Potato bean**, see Yam bean, VR 0601  
                     *Pachyrhizus tuberosus* (Lam.) Spreng.
- **Potato, Specialty**, see Potato, VR 0589  
                     *Solanum* spp.
- **Potato yam**, see Yam bean, VR 0601
- **Queensland arrowroot**, see Canna, edible, VR 0576
- **Rucki**, see Potato, VR 0589  
                     *Solanum curtilobum* Juz. & Bukasov

- VR 0508           **Sweet potato**  
                       *Ipomoea batatas* (L.) Poir
- **Tanier**, see Tannia, VR 0504
- VR 0504           **Tannia** (Codex Stan. 224-2001, amend. 2011)  
                       *Xanthosoma sagittifolium* (L.) Schott;  
                       *X. violaceum* Schott.
- **Tapioca**, see Cassava, VR 0463
- VR 0505           **Taro**  
                       *Colocasia esculenta* (L.) Schott, var. *esculenta*
- VR 0580           **Tiger nut**  
                       *Cyperus esculentus* L.
- **Topee tambu**, See Arrow root, Guinea, VR 0598
- VR 0599           **Ullucu**  
                       *Ullucus tuberosus* Caldas
- **Winged bean root**, See Goa bean root, VR 0530
- VR 2982           **Yacon**  
                       *Smallanthus sonchifolius* (Poepp. & Endl.) H. Rob.  
                       Syn: *Polymnia sonchifolia* Poepp.
- VR 0600           **Yams**  
                       *Dioscorea* L.; several species
- **Yam, Asiatic bitter**, see Yams, VR 0600  
                       *Dioscorea hispida* (Dennst.)
- **Yam, Chinese**, see Yams, VR 0600  
                       *Dioscorea polystachya* Turcz.  
                       syn: *D. opposita* auct.
- **Yam, Cush-cush**, see Yams, VR 0600  
                       *Dioscorea trifida* L.f.
- **Yam, Greater**, see Yams, VR 0600  
                       *Dioscorea alata* L.
- **Yam, Lesser**, see Yams, VR 0600  
                       *Dioscorea esculenta* (Lour.) Burkill
- **Yam, White Guinea**, see Yams, VR 0600  
                       *Dioscorea rotundata* Poir.
- **Yam, Yellow Guinea**, see Yams, VR 0600  
                       *Dioscorea cayenensis* Lam.
- VR 0601           **Yam bean**  
                       *Pachyrhizus erosus* (L.) Urban;  
                       syn: *P. angulatus* Rich. ex DC.; *P. bulbosus* (L.) Kurz; *Dolichos erosus* L.  
                       *Pachyrhizus tuberosus* (Lam.) Spreng.  
                       *Pachyrhizus ahipa* (Wedd.) Parodi
- **Yautia**, see Tannia, VR 0504

| <b>Subgroup 16C</b> | <b>Aquatic root and tuber vegetables</b>  |
|---------------------|---|
| <b>Code No.</b>     | <b>Commodity</b>  |
| VR 2072             | <b>Aquatic root and tuber vegetables</b><br>(includes all commodities in this subgroup) |
| VR 0572             | <b>Arrowhead</b><br><i>Sagittaria sagittifolia</i> L.; <i>S. latifolia</i> Willd.;      |
| VR 3000             | <b>Cattail</b><br><i>Typha latifolia</i> L.   |
| VR 3001             | <b>Chinese water chestnut</b><br><i>Eleocharis dulcis</i> (Burm. f.) Trin. ex Hensch.   |
| VR 3002             | <b>Lotus tuber</b><br><i>Nelumbo nucifera</i> Gaertn.                                   |
| VR 3003             | <b>Olbanggae</b><br><i>Eleocharis kuroguwai</i> Ohwi                                    |
| [VR ..              | <b>Water chestnut</b><br><i>Trapa natans</i> L.]  |
| [VR ..              | <b>Water bamboo</b><br><i>Zizania latifolia</i> (Griseb.) Turcz ex Stapf]               |
| [VR ..              | <b>Foxnut</b><br><i>Euryale ferox</i> Salisb.]  |

**PROJECT DOCUMENT****Proposal for new work on****GUIDELINES ON PERFORMANCE CRITERIA SPECIFIC FOR METHODS OF ANALYSIS FOR DETERMINATION OF PESTICIDE RESIDUES.****Purpose and scope of the Guidelines**

The purpose of this new work is to develop a guidance document on performance criteria specific for methods for determination of pesticide residues for the Member Countries.

The guidance document should recognise that different performance characteristics may be appropriate for different analytical procedures and techniques. It will also be important to link the development of performance criteria for multi-residue analytical methods, with the need to establish validation criteria taking into account relevant text developed by the Committee on Residues of Veterinary Drugs in Foods.

The scope of the Guidelines is to develop performance criteria which would fulfill the needs of Member Countries with respect to pesticide residue analysis.

**Relevance and timeliness**

The 35th session of the Commission noted that the Committee was considering the development of performance criteria for methods of analysis, while requesting the Committee to continue to explore ways to identify validated methods of analysis for pesticide residues.

Since the revocation of CODEX STAN 229-1993 by the 35<sup>th</sup> of the Commission, the 45<sup>th</sup> session of the Committee agreed on the development of standardized guidelines on the selection of pesticide residue analysis based on performance criteria.

As no Codex guidelines for the performance criteria for methods of analysis exist at present, for regulatory and trade purposes, the development of such guidelines is beneficial for the Member Countries to facilitate international trade in food commodities.

**Main aspects to be covered**

The Guidelines will provide Member Countries a reference for selection of methods for pesticide residue analysis.

The Guidelines will establish guidance in light of recent international references.

- The definition of the criteria;
- The principles for the selection of methods;
- The requirements for method performance characteristics including methods for qualitative, quantitative and confirmation purposes;
- Performance verification.

**Assessment against the Criteria for the establishment of work priorities**

This project proposal is consistent with the Criteria for the Establishment of Work Priorities. The 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 guidelines will facilitate the use of analytical methods. This might provide a uniformed tool for the regulatory enforcement, and reduce possible trade barriers.

**Relevance to the Codex Strategic Objectives**

Objective/Goal 1: Promoting Sound Regulatory Frameworks

The proposal to develop guidelines is 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 to develop a new guidance document with reference to CAC/GL 71-2009, CAC/GL 40-1993 and other relevant Codex texts.

**Identification of any requirement for and availability of expert advice**

None identified. Experts from member countries and relevant international organizations such as IAEA will adequately allow to carry out this work

**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**

The proposed draft guidelines will be considered by the 46<sup>th</sup> session of CCPR. The guidelines are expected to be finalized in 2016.



## APPENDIX XIII

**RISK ANALYSIS PRINCIPLES APPLIED BY THE CODEX COMMITTEE ON PESTICIDE RESIDUES****(Sections 5.2 – 5.3 and 7.1 – 7.4)****5.2 SELECTION OF COMPOUNDS FOR JMPR EVALUATION**

Each year CCPR, in cooperation with the Joint Secretariat, agrees on a schedule of JMPR evaluations in the following year and considers prioritization of other compounds for consideration of future scheduling.

**5.2.1 Procedure for the preparation of the Schedules and Priority Lists**

The CCPR submits the Schedules and Priority Lists of Pesticides for JMPR Evaluation to the CAC for approval each year, as new work, and requests the re-establishment of the Electronic Working Group (EWG) on Priorities.

The EWG on Priorities is tasked with preparing a Schedule of Pesticides for JMPR (evaluations for the following year) for the consideration of CCPR and the maintenance of a Priority List of Pesticides for future scheduling by CCPR.

The Schedules and Priority Lists are contained in the following appendices:

Appendix 1 – CCPR Proposed Schedule and Priority Lists of Pesticides (new compounds, new uses, other evaluations and periodic reviews)

Appendix 2A – Schedule and Priority Lists of Periodic Reviews

Appendix 2B – Periodic Review List (compounds listed under 15 year rule but not yet scheduled or listed)

Appendix 3 – Record of Periodic Review

Appendix 4 – Compound-Commodity combinations for which specific GAP is no longer supported

The Schedule of Pesticides for JMPR Evaluation and the Priority List of Pesticides comprise a number of appendices relating to new compounds, new uses, other evaluations and periodic review.

The Codex Secretariat will issue a 'kickoff' letter, one month after the CAC, seeking application for membership of the EWG on Priorities.

In early September of each year, the EWG Chair will issue a broadcast e-mail to all participating CCPR member / observers requesting nominations for:

1. new compounds;
2. new uses of compounds previously reviewed by JMPR;
3. other evaluations to address, for example, review of toxicological endpoint and alternative GAP;
4. periodic reviews of compounds for which there are concerns including public health.

Nominations for new compounds and new uses of compounds previously reviewed by JMPR are submitted by members / observers to the EWG Chair and the JMPR Joint Secretariat using the form in the FAO manual (footnote).

The nomination form shall provide a clear indication of the availability of data and national evaluations, as well as, give an indication of the number of crops and residue trials to be evaluated. The request should also indicate the current status of national registrations for the compound.

Nominations for other evaluations and periodic reviews should be submitted, on concern forms A and B respectively, with accompanying scientific data addressing the relevant concern. For periodic reviews, the request should also provide information on the most recent evaluation, ADI and ARfD.

Nominations complying with the requirements are incorporated into a list, prioritized and scheduled according to the criteria specified below.

Those received by 30 November are incorporated into the draft agenda paper which is distributed as a circular letter in early January.

Members and observers are allowed two months from the date of distribution to provide comment to the EWG Chair and JMPR Joint Secretariat.

On the basis of comments received to the circular letter, the EWG Chair incorporates the new nominations into the Schedule and Priority Lists, and prepares an agenda paper for CCPR. The Schedule seeks to provide a balance of new compounds, new uses, other evaluations and periodic reviews.

Following plenary discussions on MRL recommendations, the EWG Chair revises the Schedule and Priority List, which is then presented as CRD1 for CCPR's consideration. To cover the possibility that a member / observer cannot meet the JMPR data call-in deadline for new compound evaluations, CCPR will include reserve compounds.

Following plenary discussion on CRD1, CCPR will agree on a JMPR Evaluation Schedule for the following year. The final Schedule will take into account available JMPR resources.

At this point, the Schedule will be closed for the inclusion of additional compounds. However, with the agreement of the JMPR Secretariat, the inclusion of additional commodities for scheduled compounds may be accepted.

## **5.2.2 Nomination requirements and criteria for the prioritization and scheduling of compounds for evaluation by JMPR**

### **New compounds**

#### Nomination Requirements

Before a nomination is accepted the following requirements must be met:

- An intention to register the compound for use in a member country;
- The commodities proposed for consideration should be traded internationally;
- There is a commitment by the sponsor of the compound to provide supporting data for review in response to the JMPR “data call-in”;
- The use of the compound is expected to give rise to residues in or on a food or feed commodity moving in international trade;
- The compound has not been already accepted for consideration;
- A completed nomination form.

#### Prioritization Criteria

The following criteria are applied when preparing the Schedules and Priority Lists:

- The period of time since the compound was nominated for evaluation;
- Timing of data availability;
- Commitment by the member / observer to provide supporting data for review with a firm date for data submission;
- The provision of information on the commodities for which CXLs are sought and the number of trials for each commodity.

#### Scheduling Criteria

In order for CCPR to schedule a compound for JMPR evaluation in the following year:

- It must be registered for use in a member country and product labels made available by the time of JMPR “data call-in”;
- Its use must give rise to residues in or on a food or feed commodity moving in international trade;
- If the use of the compound does not give rise to detectable residues in foods and feeds, it will be afforded a lower priority than those listed compounds for which use does give rise to measurable residues.

### **New uses of compounds previously reviewed by JMPR**

#### Nomination Requirement

At the request of a member / observer, compounds previously evaluated by JMPR may be listed in Appendix 1 for the inclusion of additional uses.

#### Prioritization Criteria

When prioritizing new use evaluations, the EWG on Priorities will consider the following criteria:

- The date the request was received;
- Commitment by the sponsor to provide the required data for review in response to the JMPR “data call-in”.

#### Scheduling Criteria

Scheduling criteria are as specified in the new compound section.

### **Other Evaluations**

#### Nomination Requirements

Compounds previously evaluated by JMPR may be listed for further toxicological and / or residue evaluations by the JMPR as a result of requests from CCPR or members when:

- A member seeks to obtain revised MRLs for one or more commodities; for example, on the basis of alternative GAP;
- The CCPR requests a clarification or reconsideration of a recommendation from the JMPR;

- New toxicological data becomes available to indicate a significant change in the ADI or ARfD;
- A data deficiency is noted by JMPR during a New Compound Evaluation or Periodic Review and members / observers will supply the required information.

The CCPR may elect to schedule the compound under the four-year rule.

**Note:** The four-year-rule is applied when insufficient data have been submitted to confirm or amend an existing Codex MRL. The Codex MRL is recommended for withdrawal. However, members / observers may provide a commitment to the JMPR and CCPR to provide the necessary data for review within four years. The existing Codex MRL is maintained for a period of no more than four years pending the review of the additional data. A second period of four years is not granted.

#### Prioritization Criteria

When prioritizing compounds for other evaluations, the EWG on Priorities will consider the following criteria:

- The date the request was received;
- Commitment by the sponsor to provide the required toxicological and / or residue data for review in response to the JMPR "data call in";
- Whether the data is submitted under the 4-year rule for evaluations;
- The reason for its submission; for example, a request from CCPR.

#### Scheduling Criteria

Scheduling criteria are as specified in the new compound section.

#### **Periodic Review**

Compounds that have not been reviewed toxicologically for more than 15 years and/or not having a significant review of maximum residue limits for 15 years will be listed in Appendix 2B of the Schedules and Priority Lists.

Compounds listed in Appendix 2B can be nominated on the basis of concerns including public health. Following acceptance on the relevant concern form, these compounds will be moved from Appendix 2B to Appendix 2A and will be considered for scheduling for periodic review.

The member / observer will advise the EWG on Priorities whether all or some of the CXLs will be supported. The member / observer will specify each supported and unsupported CXL.

Compounds listed in Appendix 2B, for which no periodic review has been undertaken for 25 years, will be brought to the attention of CCPR with a view to transfer to Appendix 2A and subsequent scheduling.

Compounds not listed in Appendix 2B may be considered for scheduling in Appendix 2A where a concern form and accompanying scientific data demonstrates a significant public health concern.

#### Scheduling and Prioritisation Criteria for compounds listed in Appendix 2A

The EWG on Priorities will consider the following periodic review criteria:

- If scientific data concerning the intake and/or toxicity profile of a compound indicates some level of public health concern;
- If no ARfD has been established by Codex or if an established ADI or ARfD are of public health concern and information is available from members on national registrations and/or the conclusions from national/regional evaluations indicated a public health concern;
- The availability of current labels (authorised GAP) arising from recent national reviews;
- The CCPR has been advised by a member that the residues from a compound has been responsible for trade disruption;
- The date the data will be submitted;
- If there is a closely related compound that is a candidate for periodic review that can be evaluated concurrently.

The CCPR may elect to schedule the compound under the four-year rule.

**Note:** the four-year-rule is applied when insufficient data have been submitted to confirm or amend an existing Codex MRL. The Codex MRL is recommended for withdrawal. However, members / observers may provide a commitment to the JMPR and CCPR to provide the necessary data for review within four years. The existing Codex MRL is maintained for a period of no more than four years pending the review of the additional data. A second period of four years is not granted.

### 5.3 PERIODIC REVIEW PROCEDURE

#### 5.3.1 Identification of compounds for Periodic Review and solicit data commitments

Compounds are listed for periodic review according to the process and procedures described in section 5.2. The process provides members / observers a notice of a periodic review.

When a compound is listed for periodic review, members / observers are able to support it, regarding the two following possibilities:

- A) The compound is supported by the manufacturer.  
In cases where some uses are not supported by the manufacturer, members / observers may support the uses.
- B) The compound is not supported by the manufacturer.  
In this case, interested members / observers may support the review of the compound.

#### 5.3.2 Commitment to support compounds or existing CXLs or new proposed MRL

The commitment of members / observers to provide data for the periodic review should be addressed to the Chair of the EWG on Priorities and the JMPR Joint Secretariat according to the FAO Manual and the considerations of the 2012 JMPR report.

The following information must be provided in the response:

##### I) In case A

- A list of compounds and uses supported;
- A complete nomination form according to the FAO manual;
- Toxicology studies and other data according to the requirements of JMPR;
- A summary of all current Good Agricultural Practices (GAPs) at the time of the notification and any potential new GAPs expected before the JMPR evaluation which they are willing to provide and which is pertinent to residue data they are willing to provide (e.g. commodities and countries for with detailed GAP summaries and representative labels can be provided). Comments on the status of registration at the national level are encouraged.
- In cases where some uses are not supported by the manufacturer, but are supported by members / observers may support the uses:
  - If the current GAPs support the current CXL, justification for it as well as relevant labels are required;
  - If GAPs were modified, supervised residue trial studies conducted according to current GAP, and relevant studies to support new MRLs in animal and processed commodities.

##### II) In case B

- A list of compounds and all uses supported;
- Toxicological information that address the key questions for the human health assessment, including establishment of an ADI and/or ARfD, when required. In addition, information to derive the definition of residues for enforcement of MRLs and to conduct the dietary risk assessment;
- Data on a sufficient number of supervised trials in or on food and feed crops reflecting the current use patterns specified on the relevant labels required for estimation of maximum residue levels and STMR and HR values. Trial data may be complemented by relevant selective survey residue data;
- Other relevant information, such as available assessments by competent authorities and publications from a recently conducted literature.

### 7. PROCEDURE FOR SUBMITTING CONCERN and clarifications

#### 7.1 CONCERNS WITH ADVANCEMENT OF AN MRL OR THE EVALUATION OF A COMPOUND

- If members or observers intend to express a concern with advancement of an MRL or the evaluation of a compound, they should complete and submit the concern form in Annex A to the CODEX and JMPR Secretaries accompanied by scientific data at least one month before the CCPR session;
- The JMPR will evaluate the scientific data provided with the concern form. The CCPR will decide whether JMPR should address the concern and schedule it based on the JMPR recommendations and workload;
- When a concern form is not submitted one month prior to the CCPR session, the JMPR will consider the concern at a following meeting and the CCPR would subsequently decide on the status of the MRL;

When considering concerns expressed by members, the CCPR has agreed:

- CCPR should recognize the position taken by the JMPR as the best available science (applicable at the international level) until and if a different position is indicated;
- Science based concerns based on the same data/information should be considered only once by the JMPR in relationship to any specific compound, MRL or CXL;
- If the same information is submitted, JMPR should simply note that this information has already been reviewed, no other change has occurred which would affect the outcome of a new review, and therefore no review is warranted at this time.

## **7.2 CONCERNS WITH PUBLIC HEALTH ON PREVIOUSLY EVALUATED COMPOUNDS**

- If members or observers intend to express a public health concern on a previously evaluated compound for prioritization, they should complete and submit the form in Annex B along with the accompanying scientific data to the Chair of EWG on Priorities and the JMPR secretaries, in accordance with chapter 5.2. based on their potential higher concern regarding public health;
- JMPR, in consultation with the EWG on Priorities, will consider whether the submitted information indicates some level of public health concern and present proposals at the subsequent CCPR session;
- If the concern in regard to a compound is supported by CCPR, the compound will be assigned a high priority and scheduled for the next available year;

However, if a member or observer disagrees with the proposal by the EWG on Priorities, it must lodge additional scientific data to the Chair of the EWG on Priorities one month before the CCPR session. At the following CCPR session, the EWG on Priorities will report its proposal. CCPR will make its final decision on prioritization.

## **7.3 REQUEST FOR CLARIFICATION**

If members or observers seek clarification on a compound, they must complete the form provided in Annex A and provide the specifics of the JMPR evaluation for which they seek clarification. Such requests must be included in the response to relevant Codex Circular Letter or other Codex papers. The JMPR will address such requests for clarification during the next JMPR meeting and provide a response to such requests by the following CCPR session. The CCPR will record any responses or change in decision made resulting from the request for clarification. Pending JMPR's respond to the request of the clarification, the MRL(s) relevant to the request can proceed through the Codex 5/8 step process for the elaboration of MRLs.

## **7.4 ADDRESSING DIFFERENCES IN PROCEDURES FOR RISK ASSESSMENT**

MRLs should not be prevented from advancement when there is a science based concern regarding current JMPR risk assessment procedures that JMPR has addressed through the concern form process. However, where differences exist in procedures for risk assessment (i.e., use of variability factor, use of human studies) it is imperative that CCPR/JMPR attempt to address these differences in order to limit them where possible. Appropriate action by CCPR to address these issues may include referring the issue:

- to JMPR if there is additional or new information, or if the CCPR wishes to provide risk management input to JMPR on the conduct of risk assessments;
- to national governments or regional authorities for input with a discussion and decision at the next CCPR; and/or
- where justified by its nature, to a scientific consultation if the resources are available. Members recommending any such action by CCPR should provide information supporting their recommendation for the consideration of the Committee.

**Annex A**

**FORM FOR EXPRESSING CONCERNS WITH ADVANCEMENT OF AN MRL/OR REQUEST FOR CLARIFICATION OF CONCERNS**

|  |  |                        |                     |
|--|--|------------------------|---------------------|
| <i>Submitted by:</i>   |  |                        |                     |
| <i>Date:</i>   |  |                        |                     |
| <i>Pesticide/<br/>Pesticida Code Number</i>  | <i>Commodity /<br/>Commodity Code Number</i> | <i>MRL<br/>(mg/kg)</i> | <i>Present step</i> |
|  |  |                        |                     |
| <i>Is this a Request for Clarification?</i>  |  |                        |                     |
| <i>Request for Clarification (Specific statement of clarification requested)</i>   |  |                        |                     |
| <i>Is this a Concern?</i>  |  |                        |                     |
| <i>Is this a Continuing Concern?</i>   |  |                        |                     |
| <i>Concern (Specific statement of reason for concern to the advancement of the proposed MRL).</i>  |  |                        |                     |
| <i>Do you wish this Concern to be Noted in the CCPR Report?</i>  |  |                        |                     |
| <i>Data/Information (Description of each separate piece of data/information which is attached or will be provided to the appropriate JMPR secretary within one month of the CCPR meeting).</i> |  |                        |                     |

**Annex B**

**FORM FOR EXPRESSING CONCERNS WITH PUBLIC HEALTH ON A COMPOUND FOR PRIORITIZATION OF PERIODIC RE-EVALUATION**

|   |  |                   |
|---|--|-------------------|
| <i>Submitted by:</i>  |  |                   |
| <i>Date:</i>  |  |                   |
| <i>Pesticide/<br/>Pesticide Code Number</i>   | <i>Commodity (ies) /<br/>Commodity Code Number (s)</i> | <i>CXL(mg/kg)</i> |
|   |  |                   |
| <i>Is this a Concern?</i>   |  |                   |
| <i>The Concern relates to which prioritisation criterion / criteria (Specific statement of concern)</i>   |  |                   |
|   |  |                   |
| <i>Is supporting data being provided?</i>   |  |                   |
| <i>Data/Information (Description of each separate piece of data/information which is attached or will be provided to the EWG Priorities and the appropriate JMPR secretary within one month of the CCPR meeting).</i> |  |                   |
|   |  |                   |
| <i>Is this a continuing concern?</i>  |  |                   |
| <i>Outline ongoing concern and provide supporting data</i>  |  |                   |
|   |  |                   |

## APPENDIX XIV

## CCPR SCHEDULE AND PRIORITY LISTS

**Table 1: CCPR SCHEDULE AND PRIORITY LISTS OF PESTICIDES (NEW COMPOUNDS, NEW USES AND OTHER EVALUATIONS)  
(for adoption by the Commission)**

| 2014 JMPR - NEW COMPOUND EVALUATIONS – SCHEDULE                              |                     |                                     |   |  |
|--|---------------------|-------------------------------------|---|--|
| TOXICOLOGY   | RESIDUE             | Prioritisation Criteria             | Commodities   | Residue trials provided  |
| Aminocyclopyrachlor (999)<br>[DuPont] - USA                                  | Aminocyclopyrachlor | Registered<br>MRLs > LOQ            | Meat; milk and edible offal   | 22 (cattle) - magnitude of residue studies in pasture and rangeland grasses - 20 MOR test sites and 2 decline test sites (to determine residues in hay and forage)   |
| Benzovindiflupyr<br>[Syngenta] –<br>Switzerland (999)<br>Tox Evaluation 2013 | Benzovindiflupyr    | Registered                          | Soybean; corn; sugarcane; cotton; dry beans   | Soybean (12); corn (11); sugarcane (12); cotton (11); dry beans (11)   |
| Cyflumetofen<br>[BASF] USA<br>(999)  | Cyflumetofen        | Not registered<br>MRLs > LOQ        | Apple; pear; citrus; orange; grapefruit; lemon; strawberry; almond; pecan; grapes; tomato; melon; tea   | Apple (17: 1 EU, 12 USA, 4 Japan); pear (7: 5 USA, 2 Japan); citrus (4 Japan); orange (18: 12 USA, 6 Brazil); grapefruit (6 USA); lemon (5 USA); strawberry (8 USA); almond (5 USA); pecan (5 USA); grapes (12 USA); tomato (16 USA); melon (2 Japan); tea (2 Japan); processed commodities: apple (2 USA); orange (2 USA); grapes (4); tomato (2) |
| Dichlobenil –<br>[Chemtura] USA<br>(999)                                     | Dichlobenil         | Registered<br>MRLs > LOQ            | Cranberry; blackberry; blueberry; raspberry; grapes; cherry; pome fruit; hazelnut; and rhubarb<br>Rhubarb (IR-4 Study)  | Apple (5); blueberry (2); blackberry (3); cherry (12); cranberry (4); filberts (3); grapes (12); peach (4); plum (3)<br>Rhubarb (3 IR-4 trials)  |
| Fenamidone [Bayer CropScience]<br>Germany<br>Tox evaluation in 2013<br>(999) | Fenamidone          | Registered<br>MRLs > LOQ            | Broccoli; brussels sprouts; carrots; Chinese cabbage; cauliflower; courgettes (summer squash); cucumber; eggplant; gherkin; grapes (table and wine); head cabbage; kale; leek; lettuce (head and leafy); melon; onion; pepper (bell and sweet); potato; pumpkin (winter squash); spinach; strawberries; sunflower seeds; tomato; watermelon<br>IR-4 Add-On: Carrots; sunflower; ginseng; snap bean; lima bean | Fruiting vegetables (75); leafy vegetables (30); bulb vegetables (12); brassica vegetables (20); potato and tuberous vegetables (34); root vegetables (13); berries and small fruit (34); oilseeds (23)<br><br>Additional IR-4 data: carrots (13); sunflower (9); ginseng (5); snap bean (8); lima bean (9)  |
| Fluensulfone (999)<br>Makhteshim<br>Tox evaluation in 2013                   | Fluensulfone        | To be registered in<br>October 2013 | Tomatoes; peppers (bell and non-bell); cucumbers; courgette (zucchini); squash; cantaloupe (rockmelon)  | Tomatoes (31); peppers (bell and non-bell) (19); cucumbers (15); courgette (zucchini) (3); squash (10); cantaloupe (rockmelon) (16)  |



| 2014 JMPR - NEW COMPOUND EVALUATIONS – SCHEDULE                                  |              |                                |  |  |
|--|--------------|--------------------------------|--|--|
| TOXICOLOGY   | RESIDUE      | Prioritisation Criteria        | Commodities  | Residue trials provided  |
| Imazamox [BASF]<br>Argentina (999)   | Imazamox     | Registered                     | Legume group: peas and beans (fresh); beans and beans (pulses); lentils; soybean; peanuts; cereal group (rice; wheat, maize); oilseed group (sunflower, oilseed rape); alfalfa   | 29 OSR; 19 sunflower; 35 wheat; 26 maize; 5 rice; 18 beans; 23 peas; 5 lentils; 36 soybeans; 4 alfalfa; 7 peanuts; 19 alfalfa<br>Additional IR-4 data: bean (snap) (6); pea (EP & SS) (9); bean (lima) (7); bean (dry) (10); pea (dry) (6); sunflower (6)  |
| Mesotrione – (999)<br>[Syngenta] – USA<br>moved from 2013 P1                     | Mesotrione   | Registered<br>MRLs some at LOQ | Asparagus; berries; corn (grain, pop, sweet); cranberry; millet; lingonberry; oat (grain); rhubarb; sorghum (grain); soybean; sugarcane; okra  | Asparagus (8); berries (10); sweet corn (12); field corn (20); cranberry (5); millet (5); oats (16); okra (5) rhubarb (4); grain sorghum (12); soybean (20); sugarcane (8)<br>IR-4 data: cranberry (5)   |
| Pymetrozine – (999)<br>[Syngenta] – USA<br>moved from 2013 P1                    | Pymetrozine  | Registered<br>MRLs > LOQ       | Citrus; pome fruit; peach; strawberries; rice; pecans; oilseed rape; cotton; hops; brassica vegetables; fruiting vegetables cucurbits; fruiting veg other than cucurbits; lettuce; asparagus; potatoes; animal commodities               | Citrus (26); apple/pear (8); peach (10); strawberry (12); brassica (24); rice (8); pecans (5); OSR (12); cotton (4); hops (12); cucurbits /edible (20); cucurbits/inedible (16); pepper (16); tomato (16); lettuce (26); asparagus (4); potatoes (10)  |
| Fufenoxuron BASF<br>Brazil<br>priority 1 – moved from<br>2012 - (999)<br>RESERVE | Flufenoxuron | Registered<br>MRLs > LOQ       | Soybean; pome fruit (apple, pear); orange; melon; tomato; grape; tea   | Soybean (8); pome fruit (8); citrus (12); melon (7); tomato (12); grape (12); tea (8)  |
| Metrafenone [BASF]<br>USA (999)<br><br>RESERVE                                   | Metrafenone  | Registered<br>MRLs > LOQ       | Grape (table, wine, raisin); pome fruits (apple, pears); cherries; fruiting vegetables (tomatoes, peppers, eggplant); cucurbits (cucumber, squash, melon); cereals (wheat, barley, oats, rye, triticale); hops<br><br>IR-4 Add-On: peach | Grapes (table and wine) (24 USA) (14 EU); raisins (dried grapes); (1 USA); pome fruits (apples, pears) (18); cherries (16); fruiting vegetables (tomatoes, peppers, eggplant) (28); cucurbits (cucumber, squash, cantaloupe) (32); cereals (wheat, barley, oats rye, triticale) (67); hops (6 EU) (5 USA)<br>IR-4 data: tomato (19); cantaloupe (12); squash (14); cherry (16); peach (16); hops (5) |

| 2014 JMPR - NEW USES AND OTHER EVALUATIONS – SCHEDULE                    |  |  |   |
|--|--|--|---|
| TOXICOLOGY   | RESIDUE  | Commodities  | Residue trials provided   |
| JMPR 2013  | Buprofezin (173)                                     | Coffee   |   |
|  | Chlorantraniliprole (230)<br>[DuPont] - USA          | Green bulb vegetables; peanuts; pulses (mung beans, chick peas, soy beans); cereal grains  | Green bulb vegetables (8); peanuts (6); pulses (mung beans (3); chick peas (3); soy beans (4); cereal grains (barley 3; sorghum 3; wheat (5)  |
| JMPR 2013  | Chlorpyrifos-methyl (90)<br>[Dow AgroScience]        | Alternative GAP / label – wheat and barley   |   |
| Chlorfenapyr (254) [BASF]<br>Review tox data on metabolites<br>JMPR 2013 |  |  |   |
| JMPR 2013  | Clothianidin [Bayer] (238)                           | Root tuber vegetables (EU)   |   |
| JMPR 2013  | Dicamba (240) [BASF]                                 | Soybean  | Soybean (12) additional trials at 1x rate   |
| Diflubenzuron [Chemtura] (130) EU – request to review toxicological data |  | IR-4 Add-On: carrot; mustard greens; wheat; barley; peach; plum; peanut  | Additional IR-4 data: carrot (10); mustard greens (8); wheat & barley (12); peach & plum (12); peanut (15)  |
|  | Dimethomorph [BASF] (225)                            | Bulb onions (including shallots, garlic, silverskin onions); green onions; leek; head cabbage; flowerhead brassica (broccoli); whole group leafy vegetables (excluding brassica); celery; globe artichokes; oranges; strawberry; grapes; ginseng<br><br>IR-4 Add-On: fruiting veg. pepper (+ tomato?) to raise MRL; mustard greens; lima beans; taro | Bulb onions (including shallots, garlic, silverskin onions); 10 (USA); green onions, 6 (USA); leek, 20 (EU); head cabbage, 10 (USA); flowerhead brassica (broccoli), 10 (USA)<br><br>Whole group leafy vegetables (excluding brassica), 25 (head and leaf lettuce; spinach) (USA); celery, 9 (USA); globe artichokes, 10 (EU); oranges, 8 (EU); strawberry, 8 (EU); grapes, 13 (USA); ginseng, 4 (USA; IR-4)<br><br>Additional IR-4 data (or IR-4 data to be submitted): ginseng (4); taro (3); onion (DB) (8); onion (Gr) (4); lettuce head (6); lettuce leaf (9); mustard greens (8); lima bean (6); pepper (B+NB) (12) |
|  | Dithiocarbamates - mancozeb (105) [Dow AgroSciences] | Mandarin; ginseng (RoK)<br>Okra; chili pepper (Thailand)<br>Seed spices [HS 190]; fruit and berry spices [HS 191] (India)  | <u>Await further advice</u><br>Ginseng (3) USA<br>Ginseng (5) RoK   |

| 2014 JMPR - NEW USES AND OTHER EVALUATIONS – SCHEDULE |   |   |  |
|---|---|---|--|
| TOXICOLOGY  | RESIDUE                                   | Commodities   | Residue trials provided  |
|   | Emamectin benzoate (247)<br>[Syngenta]    | Canola (Australia)<br>Tree nuts, including pistachios   | Tree nuts (4 almond; 4 pecan)  |
|   | Fluopyram (243)<br>[Bayer CropScience]    | Leek; onions; asparagus; lettuce heads; herbs; cabbage; bush berries; rape seed; sunflower and hops                 | Leek (24); onions (37); asparagus (12); lettuce heads (50); herbs (6); cabbage head (16); Chinese cabbage (16); bush berries (8); rape seed (16); sunflower (18) and hops (8)  |
| Glufosinate [Bayer CropScience] (175)<br>JMPR 2013    | Glufosinate [Bayer CropScience] (175)     | Toxicological equivalence factors (banana, kiwifruit, soya bean, edible offal [mammalian], lettuce leaf, sunflower) |  |
| JMPR 2013   | Penthiopyrad (253)                        | Livestock commodity MRLs  |  |
|   | Phosmet [Gowan] (103) - USA               | Cranberry; tart cherry  | Cranberry (5); tart cherry (15) - tart cherry - 5 pre-GLP trials (2 USA; 3 Canada), 6 GLP (Italy), 4 GLP (France)  |
|   | Propamocarb (148); Bayer CropScience      | Broccoli; cauliflower; Brussels sprouts; head cabbage; kale; onions; leeks<br>IR-4 Add-On: lima bean                | Broccoli (10); cauliflower (10); Brussels sprouts (8); cabbages, head (12); kale (9); onion, bulb (21); leek (12)<br>Additional IR-4 data: bean (lima) (6)   |
| Propylene oxide [Balchem] (250)<br>JMPR 2013          | Propylene oxide [Balchem] (250)           | Tree nuts   |  |
|   | Prothioconazole [Bayer CropScience] (232) | Cranberry; blueberry; cucurbits; soya bean; maize; potato; peanut; oilseed rape                                     | Cranberry (6); blueberry (11); cucurbits (24); soya bean (20); maize (62); potato (20); peanut (8); oilseed rape (34)  |
|   | Pyraclostrobin [BASF] (210)               | Apricot   | Apricot - trials?  |
|   | Sedaxane [Syngenta] (259)                 | Potatoes; corn; pulses and sorghum  | Potato – 29 trials total – 13 in Canada + 16 in USA<br>Corn – 29 trials total – 3 in Canada (sweet corn only) + 26 in USA (field and sweet Corn)<br>Sorghum – 12 trials total 12 in USA<br>Pulses (dry peas and beans) – 23 trials total<br>13 trials in Canada (5 dry bean + 8 dry pea trials) + 10 trials in USA (5 dry bean + 5 dry pea trials) |
|   | Spirodiclofen (237) Bayer CropScience     | Avocados; blueberry   | Avocados (5); blueberry (12)   |

| <b>2014 JMPR - NEW USES AND OTHER EVALUATIONS – SCHEDULE</b> |  |  |  |
|--|--|--|--|
| <b>TOXICOLOGY</b>  | <b>RESIDUE</b>                         | <b>Commodities</b>   | <b>Residue trials provided</b>   |
|  | Sulfoxaflor (252)                      | Review of residue data sets  |  |
|  | Thiamethoxam (245)<br>[Syngenta]       | Persimmon (RoK)<br>IR-4 Add-On: legume veg. (beans, peas, lentils, pulses, chick pea, etc.); avocado; hops; mint | Persimmon (6)<br>Additional IR-4 data: bean (succulent) (13); pea (EP + SS) (10); bean (dry) (9); pea (dry) (5); avocado (3); hops (4); mint (5) |
|  | Triadimenol (168) Bayer<br>CropScience | Grapes   | Grapes (16)  |

(For further consideration by the EWG on Priorities)

| 2015 JMPR - NEW COMPOUND EVALUATIONS – PRIORITY LIST |            |                          |  |   |
|--|------------|--------------------------|--|---|
| TOXICOLOGY   | RESIDUE    | Prioritisation criteria  | Commodities  | Residue trials provided   |
| Acetochlor USA<br>[Monsanto] (999)                   | Acetochlor | Registered<br>MRLs > LOQ | Corn, field, forage; corn, field, grain; corn, field, stover; corn, pop, grain; corn, pop, stover; corn, sweet, forage; corn, sweet, kernels plus cob with husks removed; corn, sweet, stover; cotton, gin by-products; cotton, undelinted seed; sorghum, grain forage; sorghum, grain, grain; sorghum, grain, stover; soybean, meal; soybean, seed; beet, sugar, dried pulp; beet, sugar, molasses; beet, sugar, roots; beet, sugar, tops; peanut; peanut, hay; peanut, meal<br><br>For crops planted in rotation which are included in a crop group tolerance or which have a stand-alone tolerance in the USA: rice, grain; rice, straw; wheat, forage; wheat, hay; wheat, straw; wheat, grain; alfalfa, forage; alfalfa, hay; clover; potatoes; sunflower seed | Corn, field, forage; corn, field, grain; corn, field, stover; corn, pop, grain; corn, pop, stover; corn, sweet, forage; corn, sweet, kernels plus cob with husks removed; corn, sweet, stover (21 total); cotton, gin by-products; cotton, undelinted seed (13 total); sorghum, grain forage; sorghum, grain, grain; sorghum, grain, stover (13 total); soybean, meal; soybean, seed (21 total); beet, sugar, dried pulp; beet, sugar, molasses; beet, sugar, roots; beet, sugar, tops (15 total); peanut; peanut, hay; peanut, meal (13 total);<br><br>For crops planted in rotation which are included in a crop group tolerance or which have a stand-alone tolerance in the USA: rice, grain; rice, straw; wheat, forage; wheat, hay; wheat, straw; wheat, grain; alfalfa, forage; alfalfa, hay (11); clover (10); potatoes (10); sunflower seed (8); dried beans (9) |
| Cyazofamid (999)<br>[Ishihara Sangyo Kaisha] USA     | Cyazofamid | Registered               | Hops; potato; tomato; grape; cucurbits; carrots; brassica vegetables; okra; spinach; other fruiting vegetables   | USA/Canada: potato (27); tomato (35); cucurbits (11); cucumber (11); muskmelon (9); summer squash; grape (3-USA) (1-Argentina); (10-EU) (1-Mexico); pepper (9-bell and non-bell); carrot (14); broccoli (6); cabbage (9); mustard greens (9); spinach (10); hops (3)  |
| Fenazaquin (999)<br>[Gowan company] USA              | Fenazaquin | Registered               | Alfalfa; apples; apricots; berries; citrus; cotton; cucurbits (cucumbers, melons, zucchini, squash, pumpkin); eggplant; grapes; hops; nectarines; peaches; pears; peppers; pineapples; plums; prunes; strawberries; tea; tomatoes; tree nuts; zucchini   | Cucurbits (cucumbers – 6; cantaloupe – 6; zucchini squash – 5); stone fruit (sweet cherries – 3; sour cherries – 3; peach – 9; plum – 6); fruiting vegetable (tomato – 12; bell peppers – 6; chili peppers – 3); strawberries – 8; tree nuts (pecan – 5; almond – 5); berries (blueberry – 6; raspberry – 5); hops – 3; mint (spearmint – 1; peppermint – 4); alfalfa – 4; corn (field, sweet) – 24; cotton – 12; bean (edible podded legumes – 9; succulent shelled pea & bean – 11; dried shelled pea & bean – 14); grape – 12; avocado – 5; citrus (orange – 12; lemon – 5; grapefruit – 6)  |

| 2015 JMPR - NEW COMPOUND EVALUATIONS – PRIORITY LIST                    |                   |  |   |  |
|---|-------------------|--|---|--|
| TOXICOLOGY  | RESIDUE           | Prioritisation criteria                          | Commodities   | Residue trials provided  |
| Flonicamid (999)<br>[[shihara Sangyo<br>Kaisha] USA                     | Flonicamid        | Registered                                       | Cucurbit, vegetables; fruiting vegetables; leafy vegetables; pome fruit; potato; stone fruit; head/stem brassica; mustard greens; brassica leafy greens; root vegetables; radish tops; tuberous/corm vegetables; hops; okra; cottonseed   | USA/Canada: peach – 9; cherry – 6; plum – 6; apple – 12; pear – 6; cucumber – 6; cantaloupe – 6; summer squash – 5; tomato – 12; bell pepper – 6; non-bell pepper – 3; broccoli – 6; cabbage with wrapper leaves – 6; cabbage without wrapper leaves – 6; mustard greens – 5; head lettuce with wrapper leaves – 6; head lettuce without wrapper leaves – 6; leaf lettuce – 6; celery – 6; spinach – 6; potato tubers – 17; carrot roots – 8; carrot roots – 2; radish roots – 5; radish tops – 5; dried hop cones – 3   |
| Fluazifop-p-butyl<br>[Syngenta] (999)<br>Switzerland moved<br>from 2014 | Fluazifop-p-butyl | Registered<br>MRsL>LOQ                           | Oil seed rape; soybean; dry beans; cotton; potato; sweet potato; sugar beets; citrus fruits; pome fruit; stone fruit; grapes; tree nuts; onion (could include bulb veg); cabbage; carrots; vegetables; bananas; coffee bean; (palm oil)<br><br>IR-4 Add-On: lettuce; rhubarb; caneberry; blueberry; onion, green<br><br>Animal feeding study data to support MRLs in animal commodities given use of cotton seed, rape seed and soybeans or their by-products as animal feeds | Soybean (20); dry bean (12); oil seed rape (12); cotton (6); potato (16); sweet potato (6); carrots (12); onion (12); sugar beet (16); sugar cane (4); citrus fruit (16); pome fruits (16); stone fruit (16); grape (16); cabbage/brassica (12); lettuce (6); coffee (6); tree nutspecan (12); palm oil (4); tomato (16); asparagus (6); banana (10); cucumber/cucurbit (12)<br><br>Additional IR-4 data: lettuce (26); rhubarb (2); caneberry (6); blueberry (9); onion, green (4); coffee (2)<br><br>Animal feeding study data to support MRLs in animal commodities |
| Flupyradifurone<br>(999) [Bayer<br>CropScience]<br>Germany              | Flupyradifurone   | Not registered<br>(expected 2014);<br>MRLs > LOQ | Citrus fruit; table and wine grapes and small berries; pome fruit; tree nuts; hops; fruiting and brassica vegetables; lettuce; potatoes; sugar beets; onions; cereals; coffee; soya and cotton  | Citrus fruit (54); table & wine grapes & small berries (78); pome fruit (39); tree nuts (10); hops (11); fruiting vegetable, cucurbits (89); fruiting vegetables other than cucurbits (96); brassica vegetables (56); leafy vegetables including brassica leafy vegetables (76); legume vegetables (52); root and tuber vegetables (43); onions (18); cereals (107); coffee (18); soya and cotton (44)   |

| 2015 JMPR - NEW COMPOUND EVALUATIONS – PRIORITY LIST  |                  |                            |   |   |
|---|------------------|----------------------------|---|---|
| TOXICOLOGY  | RESIDUE          | Prioritisation criteria    | Commodities   | Residue trials provided   |
| Flumioxazin USA<br>[Sumitomo] (999)                   | Flumioxazin      | Registered US<br>MRLs >LOQ | Alfalfa; artichoke; asparagus; bushberry subgroup; cabbage and Chinese cabbage; cactus; corn; cotton; fish, freshwater; fruit, pome; fruit, stone; garlic; grape; hop; leaf petiole subgroup 4B; nut, tree; okra; olive; onion, bulb; pea and bean; dried shelled, except soybean; peanut; peppermint; pistachio; pomegranate; rapeseed subgroup 20A; shallot bulb; soybean; spearmint; strawberry; sugarcane; sunflower (subgroup 20B); vegetable; cucurbit; group 9; vegetable, fruiting; group 8; vegetable, tuberous and corm subgroup 1C (potato); wheat | Alfalfa: 13; artichoke: 3; asparagus: 8; bushberry subgroup: 5 (blueberry); cabbage and Chinese cabbage: 8; cactus: 2; corn: 21; cotton: 13; freshwater fish: 1 (catfish); 1 (bluegill sunfish); fruit, pome 12 (apple), 6 (pear); fruit, stone 9 (peach), 6 (plum), 6 (cherry); garlic: 9 (dry bulb onion); grape: 13; hop: 3; leaf petiole subgroup 4B; 8 (celery); nut, tree: 5 (pecan), 5 (almond); Okra: included in vegetable, fruiting, group 8; olive: 5; onion, bulb: 9; pea and bean, dried shelled, except soybean: 6 (dry pea), 12 (dry bean); peanut: 16; peppermint: 6; pistachio: 5 (almond); pomegranate: 3; rapeseed subgroup (canola): 8; shallot bulb: 9 (dry bulb onion); soybean: 42; spearmint: 6; strawberry: 8; sugarcane: 9; sunflower (subgroup 20B): 8; vegetable, cucurbit, group 9: 8 (cantaloupe), 8 (squash), 8 (cucumber); vegetable, fruiting, group 8: 12 (tomato), 9 (bell and non-bell pepper); vegetable, tuberous and corm subgroup 1C (potato): 14; wheat: 3 (pre-emergent), 20 (foliar) |
| Lufenuron Brasil<br>[Syngenta] (999)                  | Lufenuron        | Registered<br>MRLs >LOQ    | Soybean; citrus; pome fruit; stone fruit; grapes; fruiting vegetables; melon; cucumber/squash; flowering brassica; head brassica; leafy vegetables; cotton; potato; sunflower; sugarcane; corn; wheat; rice; coffee   |   |
| Phosphorous acid<br>[manufacturer]<br>Australia (999) | Phosphorous acid | Registered<br>MRLs >LOQ    | Grapes  | To be advised   |
| Pyrifluquinazon<br>(999) [Nihon<br>Nohyaku] Japan     | Pyrifluquinazon  | Registered Japan;<br>RoK   | Citrus; pome fruits; potatoes; stone fruits; grapes; tree nuts; melons; tea; grapes (table grapes, raisins, wine); fruiting vegetables, cucurbits; cotton; leafy vegetables; brassica leafy and head/stem vegetables  | Almonds (10); pecans (10); grape (table) (24); raisin, juice (if MRL not included under table grape); plum (18); peach (24); cherry (16); apple (24); pear (12); lemon (10); grapefruits (12); oranges (24); cantaloupe (12); cucumbers (14); summer squash (10); peppers (24); tomatoes (28); cauliflower/broccoli (12); cabbage (16); potatoes (33); cotton seed (24); tea (6) and corresponding animal commodity MRLs  |
| Quinclorac USA<br>[BASF] (999)                        | Quinclorac       | Registered<br>MRLs > LOQ   | Barley; canola; cranberry; rhubarb; rice; sorghum; wheat; and animal feed items   | Barley (5); canola (23); cranberry (5); rhubarb (4); rice (40); sorghum (24); wheat (67); and animal feed items (13)  |

| 2015 JMPR - NEW USES AND OTHER EVALUATIONS – PRIORITY LIST                          |   |  |  |
|---|---|--|--|
| TOXICOLOGY  | RESIDUE   | Commodities  | Residue trials provided  |
|   | Acetamiprid (246) [Nippon Soda]                 | Fruiting vegetables other than cucurbits<br>China (tomatoes and cucumbers)<br>Seed spices [HS 190]; fruit and berry spices [HS 191] (India)<br>Pistachio (Iran);   |  |
|   | Bifenthrin [FMC] (178)                          | Barley; barley (straw fodder); strawberry; papaya; okra; mango   | (4 year rule) (authorised GAP)   |
| Moved from 2014 to allow JMPR to conduct one evaluation for all commodity requests. | Chlorothalonil [Syngenta] (81)<br>(4 year rule) | Carrot; cherry; cranberry; bulb onion; peach; sweet and chilli pepper; tomato; common beans; asparagus<br>Blueberry USA<br>Apple and pear (RoK)<br>IR-4 Add-On: radish (root veg); ginseng; horseradish; rhubarb; mustard greens; pepper (bell); pepper (NB); orange; lemon; grapefruit (citrus fruit); almond; pistachio; mushroom; guava; lychee; mango; papaya; persimmon | Cherry (8); peach (8); bulb onion (8); sweet pepper (8); tomato (8); asparagus (6)<br>Blueberry (8)<br><u>Apple, 6 (RoK); pear, 6 (RoK)</u><br>Additional IR-4 data: radish (7); ginseng (5); horseradish (3); rhubarb (4); mustard greens (9); pepper (bell) (9); pepper (NB) (7); orange (12); lemon (5); grapefruit (6); almond (5); pistachio (3); mushroom (3); guava (5); lychee (4); mango (3); papaya (4); persimmon (2) |
| Moved from 2014   | Imidacloprid (206) [Bayer CropScience]          | Stone fruit; olive; tea; Chinese cabbage; kale<br>Pistachio (Iran)<br>Seed spices [HS 190]; fruit and berry spices [HS 191] (India)  | Stone fruits (40); olive (28); tea (8); Chinese cabbage and kale (4)   |
|   | Lambda-cyhalothrin (146) [Syngenta]             | Basil (Thailand)   |  |
|   | Carbofuran (145) FMC                            | Seed spices [HS 190]; fruit and berry spices [HS 191] (India)  |  |
|   | Dicamba USA [Monsanto] (240)                    | Cotton – undelinted seed, cotton – gin by-products   | Cotton (13)  |
|   | Difenoconazole (224) [Syngenta] USA             | Papaya (Kenya)   |  |
|   | Fipronil (202) [BASF]                           | Basil (Thailand)   |  |
|   | Fluopyram [Bayer CropScience] (243)             | Grapes; berries and small fruits; artichoke; tuber vegetables; leek; plum; tomato/aubergine; onion; peppers; cucumber; melon; chicory; beans); peas; maize; wheat & barley<br>Soya bean; cotton; alfalfa   | Grapes; berries and small fruits (36 trials); artichoke (4); tuber vegetables (16); leek (20); plum (21); tomato/aubergine (12); onion (16); peppers (9); cucumber (8); melon (9); chicory (8); beans (9); peas (12); maize (16); wheat & barley (44); soya bean; cotton; alfalfa  |



| 2015 JMPR - NEW USES AND OTHER EVALUATIONS – PRIORITY LIST |   |  |   |
|--|---|--|---|
| TOXICOLOGY   | RESIDUE                                 | Commodities  | Residue trials provided   |
|  | Flutriafol USA [Cheminova] (248)        | Pears; peach/nectarine; plum; cherry; sugar beet; rice; strawberry; almond; pecan; tomato; cucumber; muskmelon; summer squash  | Pears (6); peach/nectarine (12); plum (8); cherry (16); sugar beet (12); rice (8); strawberry (10); almond (5); pecan (5); tomato (19); cucumber (9); muskmelon (8); summer squash (8)  |
|  | Fluxapyroxad USA [BASF] (256)           | Tree nuts; berries and small fruit; grape; strawberry; bulb vegetables; brassica, leafy and head and stem, cucurbits; leafy vegetables (lettuce, spinach, celery); root and tuber vegetables (radish, carrot); cereal grains; grasses for sugar production (sugar cane); sorghum | Tree nuts (almond (5); pecan (5)); berries and small fruit (blueberry (6); blackberry (1); raspberry (2))<br>Grape (12); strawberry (8)<br>Bulb vegetables (green onion (3); dry bulb onion (6))<br>Brassica (broccoli (6); cabbage (6); mustard greens (5))<br>Cucurbits (cucumber (6); cantaloupe (6); summer squash (5))<br>Leafy vegetables (head lettuce (6); leafy lettuce (6); spinach (6); celery (6))<br>Root and tuber vegetables (radish (5); carrot (7))<br>Cereal grains (rice (16)); sorghum (9)<br>Grasses for sugar production (sugar cane (8))   |
|  |   |  |   |
|  | Indoxacarb (216)                        | Tea leaf (China)   |   |
|  | Methoxyfenozide [Dow AgroScience] (209) | Fruiting vegetables / cucurbits, spring onion  |   |
| Moved at request of manufacturer                           | Picoxystrobin– [Dupont] – USA (258)     | Fruiting vegetables, cucurbits; stone fruit; pome fruit; grapes; legume vegetables; bulb vegetables; strawberry; brassica vegetables; leafy vegetables; root and tuber vegetables; sunflower; tree nut; peanut; rice; cotton and tomato  | Brassica (broccoli, cauliflower, cabbage, mustard greens), 30; bulb vegetables (green onion, dry bulb onion), 15; coffee, 4; cotton, 13; cucurbits, 30 (cucumbers, 12); muskmelons, 9; summer squash, 9; fruiting vegetables, 44 (tomatoes, 24); bell peppers, 13; (7 non-bell peppers); grape, 13; leafy vegetables, 44 trials (leaf lettuce 10); head lettuce, 11; celery, 10; spinach, 9; peanut, 13; pome (apple, pear), 26 (apple 17, pear 9); rice, 11; root and tuber vegetables, 56 trials (potatoes, 21; sugarbeets, 13; radishes, 6; carrots, 10; turnips, 6); stone fruit (cherries; peaches, plums), 30; strawberry, 9; succulent/edible podded legumes, 40 (8 edible podded bean, 4 edible podded pea, 17 succulent bean, and 11 succulent pea); sugarcane, 4; sunflower, 9; tree nuts, 12 (6 almond, 6 pecan) |

| 2015 JMPR - NEW USES AND OTHER EVALUATIONS – PRIORITY LIST     |   |  |                                      |
|--|---|--|--------------------------------------|
| TOXICOLOGY   | RESIDUE                                   | Commodities  | Residue trials provided              |
|  | Pyrimethanil [Bayer CropScience] (226)    | Blueberry  | Blueberry (8)                        |
|  | Spirotetramat [Bayer CropScience] (234)   | Sweet corn   | Sweet corn (7)                       |
|  | Tebuconazole (189) [Bayer CropScience]    | China (banana and cucumber); Kenya (common beans)<br>Lettuce head  |                                      |
|  | Trifloxystrobin [Bayer CropScience] (213) | Lentils; chick pea; beans; peas; soya beans  | Beans (9); Peas (9); Soya beans (24) |
| Spices [India]<br>Quinalphos (not previously reviewed by JMPR) | Spices [India]                            | Cardamon – cypermethrin (118); lambda-cyhalothrin (146); profenofos (171); <u>quinalphos</u> ; triazophos (143)<br>Black Pepper – profenofos (171); <u>quinalphos</u> ; ethion (34); triazophos (143)<br>Cumin – phorate (112); profenofos (171); dithiocarbamates (50 and 105); <u>quinalphos</u><br>Curry leaves – profenofos (171); chorpyrifos (17); cypermethrin (118); methyl parathion (59); triazophos (143); ethion (34); <u>quinalphos</u> . | Monitoring data                      |

| 2016 JMPR - NEW COMPOUND EVALUATIONS – PRIORITY LIST    |                      |                              |   |  |
|---|----------------------|------------------------------|---|--|
| TOXICOLOGY  | RESIDUE              | Prioritisation criteria      | Commodities   | Residue trials provided  |
| Acibenzolar-S methyl (999)<br>[Syngenta]<br>New Zealand | Acibenzolar-S methyl | Registered                   | Kiwifruit   | Awaiting advice  |
| Norfluazuron – [Syngenta] –USA moved from 2014 (999)    | Norfluazuron         | Registered<br><br>MRLs > LOQ | Almond; apple; apricot; asparagus; avocado; blackberry; blueberry; cranberry; cherry (sweet and tart); citrus fruits group; cottonseed; grape; hazelnut; hops; nectarine; peach; peanut; pear; pecan; plums and prunes; raspberry; soybean; and walnut  | Almond: 7; apple: 8; apricot: 2; asparagus: 6; avocado: 3; blackberry: 1; blueberry: 6; cranberry: 5; cherry: 3; citrus fruits: 8; cottonseed: 10; filberts: 3; grapes: 14; nectarine: 2; peach: 4; peanut: 10; pear: 4; pecans: 4; plums: 6; raspberry: 6; soybeans: 22; walnuts: 2 |
| Spiromesifen Germany [Bayer CropScience] (999)          | Spiromesifen         | Registered<br>MRLs > LOQ     | Legume vegetables (beans/peas (dry, succulent, edible podded) soybean); leafy vegetables (head lettuce, leaf lettuce, spinach, celery); brassica vegetables (broccoli, cabbage, mustard, green); root and tuber vegetables (potato); fruiting vegetables (tomato, bell pepper, chili pepper); cucurbits (cucumber, melon, summer squash); cereals (maize, sweet corn, field corn, popcorn); oilseeds (cotton); berries (strawberries); tea, coffee, herbal infusions and cocoa (tea, coffee); tropical fruits (papaya, passion fruit); rotational crops (alfalfa, barley, oat, sugar beet, bulb vegetables (Welsh / green onions), wheat) |  |

| 2016 JMPR - NEW USES AND OTHER EVALUATIONS – PRIORITY LIST |  |   |  |
|--|--|---|--|
| TOXICOLOGY   | RESIDUE                                      | Commodities   | Residue trials provided  |
|  | Pyriproxyfen (200)<br>Costa Rica             | Costa Rica: banana, Peru: avocado, Philippines: papaya, Malaysia/Singapore: mango, Panama: pineapple  |  |
|  | Spinetoram (233)<br>Thailand                 | Thailand: mango, Egypt or Morocco: olive, Colombia: avocado, Costa Rica: papaya, Bolivia and Ghana: banana, Senegal: pineapple<br>NZ – feijoa; passionfruit; avocado; tamarillo | NZ trials - feijoa (4); passionfruit (4); avocado (4); tamarillo (4) |
|  | Azoxystrobin (229)<br>[Syngenta]<br>Uganda   | Uganda: pineapple (or passion fruit), Tanzania: guava, Egypt or Morocco: olive, Indonesia: dragon fruit (this needs to be moved from 2013 to 2016)                              |  |
|  | Difenoconazole (224)<br>[Syngenta]<br>Uganda | Uganda: pineapple (or passion fruit), Tanzania: guava, Egypt or Morocco: olive, Indonesia: dragon fruit (this needs to be moved from 2013 to 2016)                              |  |
|  | Fluensulfone (999)<br>[Makhteshim]           | Root tuber; leafy vegetable; brassica vegetable; strawberry; cereal grain; product of animal origin; radish; legume vegetables; tree fruit                                      |  |
|  | Chlorantraniliprole (230)                    | Philippines – pineapple, Thailand   |  |

**TABLE 2A: SCHEDULE AND PRIORITY LISTS OF PERIODIC RE-EVALUATIONS – 2014-2019**

Note 1: NR denotes “following evaluation, JMPR has deemed the establishment of an ARfD unnecessary”

Note 2: N/A denotes “not assessed – JMPR has not had the opportunity to consider, or determine the need for, an ARfD”

**2014 PERIODIC RE-EVALUATION – SCHEDULE**

| TOXICOLOGY                         | RESIDUE  | Commodities  | Comments   | Previous evaluation | ADI          | ARfD |
|------------------------------------|--|--|--|---------------------|--------------|------|
|                                    | Fenpropathrin (185)<br>[Sumitomo Chemical] – USA | Cattle meat; cattle milk; cattle edible offal; cotton seed; cotton seed oil; eggplant; eggs; gherkin; grapes; chilli pepper; sweet pepper; pome fruits; poultry meat; poultry edible offal; tea; tomato; cherries; stone fruit (peach, apricots, nectarine, plums); strawberries; bushberries; caneberries; tree nuts including pistachio; olive; citrus (oranges, grapefruit, lemons)<br>Sweet cherry (USA)<br>Blueberry; peas (shelled and podded); cucumber; squash; avocado; tropical fruit; barley<br>Coffee; soybean (Brazil)<br>Seed spices [HS 190]; fruit and berry spices [HS 191] (India)<br>IR-4 Add-On: blueberry; peas (shelled and podded); cucumber; squash; avocado; tropical fruit; barley | Cotton seed (33); cucumber (8); squash (7); grapes (20); peppers (10); apples (26); tea (3); tomato (8); cherries (6); peach (10); plums (6); strawberries (10); caneberries (7); tree nuts (10); olives (3); oranges (18); grapefruit (7); lemons (6)<br>(appears to be support for new commodities such as strawberry; cucumber; citrus and tree nuts)<br><br>Blueberry (9); peas (8); cucumber (8); squash (7); avocado (6); tropical fruit (9); barley (12)<br>Soybean (8); coffee (6)<br><br>IR-4 Data: blueberry (9); peas (8); cucumber (8); squash (7); avocado (6); tropical fruit (9); barley (12) | 1993                | 0.03<br>2006 | N/A  |
| Triforine (116)<br>[Sumitomo Corp] | Triforine (116)                                  | Apple; blueberries; Brussels sprouts; cereal grains; cherries; common bean; apricot; currants (black, red white); fruiting vegetables, cucurbits; gooseberry; peach; plums (including prunes); strawberry; tomato  | Pome fruit - apple (15); pears<br>Stone fruit - cherries; plums; apricots; nectarines;<br>Peaches - peach (20); plums (including prunes) (16); apricot (7); nectarine (5); cherries (15)<br>Berries and other small fruits - blueberries (8) berries and small fruits (5); currants (black, red, white); grapes (10); strawberry (8)<br>Brussels sprouts (no additional trials)<br>Cereal grains (no additional trials)<br>Common bean (no additional trials)<br>Fruiting vegetables peppers 7; aubergine 7; tomato 31; cucurbits 12; melons 8; squash 6   | 1997                | 0.02<br>1997 | N/A  |

| TOXICOLOGY                               | RESIDUE            | Commodities   | Comments  | Previous evaluation | ADI          | ARfD |
|--|--------------------|---|---|---------------------|--------------|------|
| Myclobutanil (181)<br>[Dow AgroSciences] | Myclobutanil (181) | Pome fruits; stone fruits; black currant, grapes;<br>strawberry; banana; hops; tomato<br>Pesticide Initiative Project – beans with pods<br>(manufacturer indicates support for animal product<br>CXLs)<br>Soybean; melon (Brazil) | Total trials (616) – comprising apple (128); pear<br>(14); apricot (18); cherry (36); peach (51); plums<br>(51); black/red currants (12); grapes (125);<br>strawberries (60); bananas (12); hops (25); tomato<br>(63); beans (green) with pods (10) | 1992                | 0.03<br>1992 | N/A  |

2015 PERIODIC RE-EVALUATION – PRIORITY LIST

| TOXICOLOGY   | RESIDUE           | Commodities  | Comments  | Previous evaluation | ADI           | ARfD         |
|--|-------------------|--|---|---------------------|---------------|--------------|
| Abamectin (177)<br>[Syngenta]  | Abamectin (177)   | Pome fruits; cucurbits (edible and inedible peel); grapes; citrus fruits; stone fruits; strawberries; hops; leafy vegetables (lettuce, spinach, endive, celery); potato; almond; walnut; bean; coffee; cotton; fruiting vegetables (tomato, aubergine, pepper, sweet pepper); avocado; papaya; mango; avocado; onion<br>Chili peppers (Thailand)<br>Tomato; mango; papaya (Indonesia REP12/PR, CRD 26)<br>(appears to be no support for animal product CXLs) | Awaiting advice on number of trials   | 1997                | 0.002<br>1997 | N/A          |
| Chlormequat (15)<br>[BASF]   | Chlormequat (15)  | Cereals; cottonseed; maize; rapeseed; maize fodder; cereals fodder/straw; meat; milk; eggs   | Cereals - 64 trials (16 trials each for wheat, barley; oats and rye); grapes - 8 trials; soybean - 8 trials; cottonseed - 4 trials; potato - 4 trials; onion - 4 trials; meat/milk/eggs   | 1994                | 0.05<br>1997  | 0.05<br>1999 |
| Clethodim (187)<br>Arysta LifeScience<br>USA                               | Clethodim (187)   | Bean; broccoli; cabbage; carrot; cranberry; cucurbits; hops; lettuce; pea; strawberry; blueberry   | Blueberry (9) –<br>Awaiting further advice  | 1994                | 0.01<br>1994  | NR<br>2004   |
| Ethephon (106)<br>[Bayer<br>CropScience]                                   | Ethephon (106)    | Apple; barley; barley straw and fodder; blueberries; cantaloupe; cherries; chili peppers (dry); cotton seed; dried grapes; figs; grapes; hazelnuts; peppers; pineapple; rye; rye straw and fodder; tomato; walnuts; wheat; wheat straw and fodder; chicken eggs; edible offal of cattle; goats; horses; pigs & sheep; meat of cattle; goats; horses; pigs & sheep; milk of cattle; goats & sheep; poultry meat; poultry; edible offal<br>All CXLs supported  | Awaiting advice on number of trials   | 1994                | 0.05<br>1997  | 0.05<br>2002 |
| Penconazole (182)<br>[Syngenta]<br><br>Moved at request of<br>manufacturer | Penconazole (182) | Pome fruit; stone fruit; grapes; cane berries; bush berries; strawberries; fruiting vegetables other than cucurbits; fruiting vegetables cucurbits; globe artichokes<br>(appears to be no support for animal product CXLs)   | Apples/pears (18); peach (12); cherries (4); grapes (16); raspberry/blackberry (4); currants (4); gooseberry (4); strawberry (29); tomatoes/aubergines (20); peppers (12); cucumbers/gherkins (24); melons (23); globe artichokes (8) | 1992                | 0.03<br>1992  | N/A          |

| TOXICOLOGY  | RESIDUE         | Commodities   | Comments   | Previous evaluation | ADI          | ARfD       |
|---|-----------------|---|--|---------------------|--------------|------------|
| Metalaxyl (138)<br>Quimicas del Vallés<br>- SCC GmbH<br>postponed on<br>request | Metalaxyl (138) | Review in 2004 for residues was for evaluation of metalaxyl-M; support from Quimicas del Vallés - SCC GmbH; USA - supervised trials by Thailand – pineapples<br>Ginseng (RoK) | NOTE – new supporting manufacturer<br>Thailand has agreed to provide field trials – pineapples<br><br>Ginseng [ xx trials] | 2004                | 0.08<br>2004 | NR<br>2004 |

## 2016 PERIODIC RE-EVALUATION – PRIORITY LIST

| TOXICOLOGY                 | RESIDUE             | Commodities   | Comments  | Previous evaluation | ADI          | ARfD |
|----------------------------|---------------------|---|---|---------------------|--------------|------|
| Fenpropimorph (188) [BASF] | Fenpropimorph (188) | Banana; cereals; sugar beet; cereals fodder/straw; meat; milk; eggs<br>All CXLs supported   | Cereals (56 trials); banana (23); sugar beet (8)  | 1993                | 0.03<br>2006 | N/A  |
| Imazalil (110) [Janssen]   | Imazalil (110)      | Nominated by EU (criteria – public health concern)<br>To be advised   |   |                     |              |      |
| Iprodione (111) (BASF)     | Iprodione (111)     | Tree nuts; cereals; beans, (dried); blackberry; broccoli; carrots; cheery; cucumber; grapes; kiwi; lettuce (head and leafy); onion; stone fruit; pome fruit; rapeseed; raspberry; sugar beet; sunflower; tomato; witloof<br>(All CXLs appear to be supported) | Awaiting advice   | 1994                | 0.06<br>1995 | N/A  |
| Teflubenzuron (190) [BASF] | Teflubenzuron (190) | Apple; orange; coffee; field corn; soybean; sugarcane; sunflower; tomato; melon; broccoli; cauliflower; grape; papaya<br>(no support for plum; potato; cabbage and Brussels sprout CXLs)  | Apple (12); orange (16); coffee (9); field corn (6); soybean (5); sugarcane (5); sunflower (8); tomato (12); melon (8); broccoli (8); cauliflower (8); grape (12); papaya (4); mango (4); cucumber (8); gherkin (4); sweet pepper (4) | 1996                | 0.01<br>1994 | N/A  |



## 2017 PERIODIC RE-EVALUATION – PRIORITY LIST

| TOXICOLOGY                                 | RESIDUE                | Commodities  | Comments   | Previous evaluation | ADI          | ARfD         |
|--|------------------------|--|--|---------------------|--------------|--------------|
| Tolclofos-methyl (191) [Sumitomo Chemical] | Tolclofos-methyl (191) | Lettuce head; lettuce leaf; potato; radish   | Await advice   | 1994                | 0.07<br>1994 | N/A          |
| Fenpyroximate (193) [Nihon Nohyaku]        | Fenpyroximate (193)    | Awaiting advice on commodities<br>IR-4 Add-On: potato; bean (snap); melons; cucumber; stone fruit; avocado; mint | IR-4 Data: potato (16); bean (snap) (8); melons (8); cucumber (9); cherry (8); peach (10); plum (6); avocado (5); mint (6) | 1995                | 0.01<br>1995 | 0.02<br>2007 |
| Oximyl (126)                               |                        |  |  |                     |              |              |

## 2018 PERIODIC RE-EVALUATION – PRIORITY LIST

| TOXICOLOGY                           | RESIDUE                | Commodities  | Comments                            | Previous evaluation | ADI           | ARfD |
|--------------------------------------|------------------------|--|-------------------------------------|---------------------|---------------|------|
| Flumethrin (195) [Bayer CropScience] | Flumethrin (195)       | Cattle milk; cattle meat   |                                     | 1996                | 0.004<br>1996 | N/A  |
| Fenbutatin oxide (109) [BASF]        | Fenbutatin oxide (109) | No longer supported by manufacturer<br>4 year rule (member country ????) | No longer supported by manufacturer | 1992                | 1992<br>0.03  | N/A  |

**TABLE 2B: PERIODIC RE-EVALUATION LIST (COMPOUNDS LISTED UNDER 15 YEAR RULE BUT NOT YET SCHEDULED OR LISTED)**

Note 3: Compounds listed in this table meet criterion 2 (15 year rule).

Decisions on the prioritization of these compounds should be based on criterion 1 (public health concerns), criteria 4 and 7 (date that data will be submitted and availability of current labels arising from recent national evaluations) and other relevant criteria found in pp135-136 of the *Codex Procedural Manual*.

Compounds are listed in Appendix 2b awaiting advice on supporting data packages and/or an indication of manufacturer/member country support.

| TOXICOLOGY                                     | RESIDUE                                  | Commodities   | Comments  | Previous evaluation | ADI            | ARfD                             |
|--|--|---|---|---------------------|----------------|----------------------------------|
|  | Aldicarb (117)<br>[Bayer<br>CropScience] | No longer supported by the manufacturer                   | No longer supported by manufacturer                     | 1995                | 0.003<br>1992  | 0.003<br>1995                    |
| Amitraz (122) –<br>[Arysta<br>Lifesciences]    | Amitraz (122)                            | Awaiting advice on commodities                            | Await further advice                                    | 1998                | 0.01<br>1998   | 0.01<br>1998                     |
| Dichlofluanid (82) –<br>[Bayer<br>CropScience] | Dichlofluanid (82)                       | No longer supported by manufacturer                       | No longer supported by manufacturer                     | 1983                | 0.3<br>1983    | N/A                              |
| Dinocap (87) [Dow<br>AgroSciences]             | Dinocap (87)                             | No longer supported by manufacturer                       | No longer supported by manufacturer                     | 1998                | 0.008<br>1998  | 0.008<br>WCBA<br>0.03<br>general |
| Disulfoton (74) –<br>[Bayer<br>CropScience]    | Disulfoton (74)                          | Awaiting advice on commodities                            | Support from USA<br>Confirmation of support is required | 1996                | 0.0003<br>2006 | 0.003<br>2006                    |
| Methidathion (51)<br>[Syngenta]                | Methidathion (51)                        | No longer supported by manufacturer                       | No longer supported by manufacturer                     | 1992                | 0.001<br>1997  | 0.01<br>1997                     |
| [Makhteshim –<br>Agan]                         | Azinphos-methyl<br>(002)                 | Awaiting advice on commodities                            |   | 2007                | 0.03<br>2007   | 0.1<br>2007                      |
| Bromide ion (47)                               | Bromide ion (47)                         | No Croplife manufacturer responsible - support<br>unknown |   | 1998                | 1.0<br>1998    | N/A                              |
| Bromopropylate<br>(70) [Syngenta]              | Bromopropylate<br>(70)                   | No longer supported by manufacturer                       | No longer supported by manufacturer                     | 1993                | 0.03<br>1993   | N/A                              |
| Tecnazene (115)                                | Tecnazene (115)                          | No Croplife manufacturer listed - support unknown         |   | 1994                | 0.02<br>1994   | N/A                              |
| Hydrogen<br>phosphide (46)                     | Hydrogen<br>phosphide (46)               | No Croplife manufacturer responsible                      | Support unknown   | 1971                | NR             | N/A                              |

| TOXICOLOGY   | RESIDUE                | Commodities                    | Comments                        | Previous evaluation | ADI            | ARfD           |
|--|------------------------|--------------------------------|---------------------------------|---------------------|----------------|----------------|
| Phosalone (60)<br>[Cheminova]                              | Phosalone (60)         | Awaiting advice on commodities | Durian (Thailand)               | 1997                | 0.02<br>1997   | 0.3<br>2001    |
| Bioresmethrin (93)<br>previously<br>Sumitomo<br>Chemical)- | Bioresmethrin (93)     | Not supported by manufacturer  | Not supported by manufacturer   | 1991                | 0.03<br>1991   | N/A            |
| Diazinon (22)<br>[Makhteshim –<br>Agan]                    | Diazinon (22)          | Awaiting advice on commodities |                                 | 1996                | 0.005<br>2006  | 0.03<br>2006   |
| Permethrin (120)   | Permethrin (120)       | Not supported by manufacturer  | Not supported by manufacturer   | 1987                | 0.05<br>1999   | NR<br>1999     |
| Fenarimol (192)<br>[Gowan]                                 | Fenarimol              | Not supported by manufacturer  | Not supported by manufacturer   | 1995                | 0.01<br>1995   | N/A            |
| Fenthion (39)<br>[Bayer<br>CropScience]                    | Fenthion               | Not supported by manufacturer  | Not supported by manufacturer   | 1995                | 0.007<br>1995  | 0.01<br>1997   |
| Quintozene (64)<br>[Crompton –<br>AMVAC]                   | Quintozene             | Awaiting advice on commodities |                                 | 1995                | 0.01<br>1995   | N/A            |
| Ferbam; Ziram<br>(105) [Taminco]                           | Ferbam; Ziram<br>(105) | Awaiting advice on commodities |                                 | 1995                | 1.0<br>1995    | N/A            |
| Carbofuran (96)<br>FMC Corporation                         | Carbofuran             | Awaiting advice on commodities |                                 | 1997                | 0.001<br>1996  | 0.001<br>2009  |
| Carbosulfan (145)<br>[FM C Corporation]                    | Carbosulfan            | Awaiting advice on commodities | Asparagus; egg plant (Thailand) | 1997                | 0.01<br>(1986) | 0.02<br>(2003) |
| Fenbuconazole<br>(197)<br>[Dow AgroSciences]               | Fenbuconazole          | Awaiting advice on commodities | Awaiting advice on commodities  | 1997                | 0.03<br>(1997) | 0.2<br>(2012)  |
| Kresoxim-methyl<br>(199)<br>[BASF]                         | Kresoxim-methyl        | Awaiting advice on commodities |                                 | 1998                | 0.4<br>(1998)  | NR<br>(1998)   |

**TABLE 3: RECORD OF PERIODIC RE-EVALUATIONS**

Note 4: All information is derived from the current “DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS IN FOODS AND FEEDS AT STEPS 7 AND 4”

Note 5: The year value provided in the schedule (tox) and (residue) columns is based on chronological order and is for guidance only.

| Code | Chemical           | Initial JMPR evaluation | Periodic re-evaluation    | Scheduled (Tox) | Scheduled (Residues) | Notes                         |
|------|--------------------|-------------------------|---------------------------|-----------------|----------------------|-------------------------------|
| 007  | Captan             | 1963                    | 1995T, 2004T(ARfD), 2000R |                 |                      |                               |
| 008  | Carbaryl           | 1965                    | 2001T(ADI, ARfD), 2002R   |                 |                      |                               |
| 017  | Chlorpyrifos       | 1972                    | 1999T, 2000R              |                 |                      |                               |
| 020  | 2,4-D              | 1970                    | 1996T, 2001T(ARfD), 1998R |                 |                      |                               |
| 025  | Dichlorvos         | 1965                    | 2011T, 2012R              |                 |                      | AMVAC                         |
| 026  | Dicofol            | 1968                    | 1992, 2011T               |                 |                      | Not supported by manufacturer |
| 027  | Dimethoate         | 1965                    | 1996T, 2003T(ARfD), 1998R |                 |                      |                               |
| 030  | Diphenylamine      | 1969                    | 1998T, 2001R              |                 |                      |                               |
| 032  | Endosulfan         | 1965                    | 1998T, 2006R              |                 |                      |                               |
| 035  | Ethoxyquin         | 1969                    | 2005T, 1999R              |                 |                      |                               |
| 037  | Fenitrothion       | 1969                    | 2007T(ADI, ARfD), 2003R   |                 |                      |                               |
| 041  | Folpet             | 1969                    | 1995T, 2007T(ARfD), 1998R |                 |                      |                               |
| 048  | Lindane            | 1965                    | 2002T, 2003R              |                 |                      |                               |
| 049  | Malathion          | 1965                    | 1997T, 2003T(ARfD), 1999R |                 |                      |                               |
| 056  | 2-phenylphenol     | 1969                    | 1999                      |                 |                      |                               |
| 057  | Paraquat           | 1970                    | 2003T, 2004R              |                 |                      |                               |
| 059  | Parathion-methyl   | 1965                    | 1995T, 2000R              |                 |                      |                               |
| 062  | Piperonyl butoxide | 1965                    | 1995T, 2001T(ARfD), 2001R |                 |                      |                               |
| 063  | Pyrethrins         | 1965                    | 2003T, 2000R              |                 |                      |                               |
| 065  | Thiabendazole      | 1970                    | 1997T, 2006T(ARfD), 1997R |                 |                      |                               |
| 067  | Cyhexatin          | 1970                    | 2005T, 2005R              |                 |                      |                               |
| 072  | Carbendazim        | 1973                    | 1995T, 2005T(ARfD), 1998R |                 |                      |                               |
| 079  | Amitrole           | 1974                    | 1997T, 1998R              |                 |                      |                               |
| 081  | Chlorothalonil     | 1974                    | 2009T, 2010R              |                 |                      |                               |
| 083  | Dicloran           | 1974                    | 1998                      |                 |                      |                               |
| 084  | Dodine             | 1974                    | 2000T, 2003R              |                 |                      |                               |

| Code | Chemical                | Initial JMPR evaluation | Periodic re-evaluation             | Scheduled (Tox) | Scheduled (Residues) | Notes  |
|------|-------------------------|-------------------------|------------------------------------|-----------------|----------------------|--|
| 085  | Fenamiphos              | 1974                    | 1997T, 2002T( <i>ARfD</i> ), 1999R |                 |                      |  |
| 086  | Pirimiphos-methyl       | 1974                    | 1992T, 2006T( <i>ARfD</i> ), 2003R |                 |                      |  |
| 090  | Chlorpyrifos-methyl     | 1975                    | 2009                               |                 |                      |  |
| 094  | Methomyl                | 1975                    | 2001                               |                 |                      |  |
| 095  | Acephate                | 1976                    | 2005T, 2003R                       |                 |                      |  |
| 100  | Methamidophos           | 1976                    | 2002T, 2003R                       |                 |                      |  |
| 101  | Pirimicarb              | 1976                    | 2004                               |                 |                      |  |
| 102  | Maleic hydrazide        | 1976                    | 1996T, 1998R                       |                 |                      |  |
| 103  | Phosmet                 | 1976                    | 1994T, 2003T, 1997R 2002R          |                 |                      | 0.01 (1998), 0.2 (2003) Gowan  |
| 105  | Dithiocarbamates        | 1965                    | 1996T, 1993R, 2004 propineb        |                 |                      | Individual dithiocarbamates are evaluated, propineb in 2004, ferbam/ziram (1996) |
| 105  | Propineb                | 1997                    | 2004T                              |                 |                      | Dithiocarbamates   |
| 112  | Phorate                 | 1977                    | 2004T, 2005R                       |                 |                      |  |
| 113  | Propargite              | 1977                    | 1999T, 2002R                       |                 |                      |  |
| 118  | Cypermethrin            | 1979                    | 2006T, 2008R                       |                 |                      |  |
| 119  | Fenvalerate             | 1979                    | 2012                               |                 |                      | Sumitomo Chemical  |
| 126  | Oxamyl                  | 1980                    | 2002                               |                 |                      |  |
| 129  | Azocyclotin             | 1979                    | 2005T, 2005R                       |                 |                      |  |
| 130  | Diflubenzuron           | 1981                    | 2001T, 2002R                       |                 |                      |  |
| 132  | Methiocarb              | 1981                    | 1998T, 1999R                       |                 |                      |  |
| 133  | Triadimefon/triadimenol | 1979                    | 2004T, 2007R                       |                 |                      | 133 /168   |
| 135  | Deltamethrin            | 1980                    | 2000T, 2002R                       |                 |                      |  |
| 142  | Prochloraz              | 1983                    | 2001T, 2004R                       |                 |                      |  |
| 143  | Triazophos              | 1982                    | 2002T, 2007R                       |                 |                      |  |
| 144  | Bitertanol              | 1983                    | 1998T, 1999R                       |                 |                      |  |
| 146  | Cyhalothrin             | 1984                    | 2004 (JECFA)                       |                 |                      |  |
| 146  | Lambda-cyhalothrin      |                         | 2007T, 2008R                       |                 |                      |  |
| 147  | Methoprene              | 1984                    | 2001T, 2005R                       |                 |                      |  |
| 148  | Propamocarb             | 1984                    | 2005T, 2006R                       |                 |                      |  |

| Code | Chemical             | Initial JMPR evaluation | Periodic re-evaluation    | Scheduled (Tox) | Scheduled (Residues) | Notes               |
|------|----------------------|-------------------------|---------------------------|-----------------|----------------------|---------------------|
| 149  | Ethoprophos          | 1983                    | 1999T, 2004R              |                 |                      |                     |
| 151  | Dimethipin           | 1985                    | 1999T, 2004T(ARfD), 2001R |                 |                      |                     |
| 155  | Benalaxyl            | 1986                    | 2005T, 2009R              |                 |                      |                     |
| 156  | Clofentezine         | 1986                    | 2005T, 2007R              |                 |                      |                     |
| 157  | Cyfluthrin           | 1986                    | 2006T, 2007R              |                 |                      |                     |
| 158  | Glyphosate           | 1986                    | 2004                      |                 |                      |                     |
| 160  | Propiconazole        | 1987                    | 2004T, 2007R              |                 |                      |                     |
| 162  | Tolyfluanid          | 1988                    | 2002                      |                 |                      |                     |
| 165  | Flusilazole          | 1989                    | 2007                      |                 |                      |                     |
| 166  | Oxydemeton-methyl    | 1989                    | 2002T, 1998R              |                 |                      |                     |
| 167  | Terbufos             | 1989                    | 2003T                     |                 |                      |                     |
| 169  | Cyromazine           | 1990                    | 2006T, 2007R              |                 |                      |                     |
| 171  | Profenofos           | 1990                    | 2007T, 2008R              |                 |                      |                     |
| 173  | Buprofezin           | 1991                    | 2008                      |                 |                      |                     |
| 174  | Cadusafos            | 1991                    | 2009T, 2010R              |                 |                      |                     |
| 175  | Glufosinate-ammonium | 1991                    | 2012                      |                 |                      | Bayer CropScience   |
| 176  | Hexythiazox          | 1991                    | 2008T, 2009R              |                 |                      |                     |
| 178  | Bifenthrin           | 1992                    | 2009T, 2010R              |                 |                      |                     |
| 179  | Cycloxydim           | 1992                    | 2009T, 2012R              |                 |                      | BASF                |
| 184  | Etofenprox           | 1993                    | 2011T,R                   |                 |                      | Mitsui Chemical Inc |
| 189  | Tebuconazole         | 1994                    | 2010T, 2011R              |                 |                      |                     |
| 194  | Haloxifop            | 1995                    | 2006T, 2009R              |                 |                      |                     |
| 196  | Tebufenozide         | 1996                    | 2003T(ARfD)               |                 |                      |                     |
| 201  | Chlorpropham         | 2000                    | 2005T(ADI, ARfD)          |                 |                      |                     |
| 172  | Bentazone            | 1991                    | 2012T, 2004T(ARfD)        |                 | 2013                 | BASF                |
| 180  | Dithianon            | 1992                    | 2010                      |                 | 2013                 |                     |
| 002  | Azinphos-methyl      | 1965                    | 2007T                     |                 | 2017                 | Makhteshim          |
| 185  | Fenpropathrin        | 1993                    | None                      | 2012            | 2014                 | Sumitomo Chemical   |
| 031  | Diquat               | 1970                    | 1993T, 1994R              | 2013            | 2013                 | Syngenta            |

| Code | Chemical           | Initial JMPR evaluation | Periodic re-evaluation    | Scheduled (Tox)      | Scheduled (Residues) | Notes                          |
|------|--------------------|-------------------------|---------------------------|----------------------|----------------------|--------------------------------|
| 109  | Fenbutatin oxide   | 1977                    | 1992T, 1993R              | 2013                 | 2013                 | Not supported by BASF          |
| 116  | Triforine          | 1977                    | 1997T                     | 2014                 | 2014                 | Support from Sumitomo Co.      |
| 181  | Myclobutanil       | 1992                    | None                      | 2014                 | 2014                 | Support from Dow AgroSciences  |
| 182  | Penconazole        | 1992                    | None                      | 2014                 | 2014                 | Syngenta                       |
| 015  | Chlormequat        | 1970                    | 1997T, 1999T(ARfD) 1994   | 2015                 | 2015                 | Support from BASF              |
| 106  | Ethephon           | 1977                    | 1997T, 2002T(ARfD), 1994R | 2015                 | 2015                 | Bayer CropScience              |
| 138  | Metalaxyl          | 1982                    | 2002T                     | 2015                 | 2015                 | Quimicas del Vallés - SCC GmbH |
| 177  | Abamectin          | 1992                    | 1997T                     | 2015                 | 2015                 | Syngenta                       |
| 187  | Clethodim          | 1994                    | 1999T(ARfD)               | 2015                 | 2015                 | Support from USA               |
| 110  | Imazalil           | 1977                    | 1977, 2000T, 2005T(ARfD)  | 2016                 | 2016                 | Janssen                        |
| 111  | Iprodione          | 1977                    | 1995T, 1994R              | 2016                 | 2016                 | Support from BASF              |
| 188  | Fenpropimorph      | 1994                    | 2004T(ARfD)               | 2016                 | 2016                 | Support from BASF              |
| 190  | Teflubenzuron      | 1994                    | None                      | 2016                 | 2016                 | Support unknown                |
| 191  | Tolclofos-methyl   | 1994                    | None                      | 2017                 | 2017                 | Sumitomo Chemical              |
| 193  | Fenpyroximate      | 1995                    | 2007T(ARfD)               | 2017                 | 2017                 | Nihon                          |
| 195  | Flumethrin         | 1996                    | None                      | 2018                 | 2018                 | Bayer CropScience              |
| 022  | Diazinon           | 1965                    | 2006T, 1993               | Listed-not scheduled | Listed-not scheduled | Makhteshim-Agan                |
| 039  | Fenthion           | 1971                    | 1995, 1997T(ARfD)         | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer  |
| 046  | Hydrogen phosphide | 1965                    | 1966T                     | Listed-not scheduled | Listed-not scheduled | Support unknown                |
| 047  | Bromide ion        | 1968                    | 1988T                     | Listed-not scheduled | Listed-not scheduled | Support unknown                |
| 051  | Methidathion       | 1972                    | 1997T, 1992               | Listed-not scheduled | Listed-not scheduled | Not supported                  |
| 060  | Phosalone          | 1972                    | 1997T, 2001T(ARfD), 1994R | Listed-not scheduled | Listed-not scheduled | Cheminova                      |
| 064  | Quintozene         | 1969                    | 1995                      | Listed-not scheduled | Listed-not scheduled | Chemtura                       |

| Code | Chemical        | Initial JMPR evaluation | Periodic re-evaluation    | Scheduled (Tox)      | Scheduled (Residues) | Notes                         |
|------|-----------------|-------------------------|---------------------------|----------------------|----------------------|-------------------------------|
| 070  | Bromopropylate  | 1973                    | 1993                      | Listed-not scheduled | Listed-not scheduled | Syngenta                      |
| 074  | Disulfoton      | 1973                    | 1996T(ARfD)               | Listed-not scheduled | Listed-not scheduled | Bayer CropScience             |
| 082  | Dichlofluanid   | 1969                    | 1983T                     | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer |
| 087  | Dinocap         | 1969                    | 1998T, 2000T(ARfD)        | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer |
| 093  | Bioresmethrin   | 1975                    | 1991T, none               | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer |
| 096  | Carbofuran      | 1976                    | 1996T, 2008T(ARfD), 1997R | Listed-not scheduled | Listed-not scheduled |                               |
| 105  | Ferbam          | 1965                    | 1996T                     | Listed-not scheduled | Listed-not scheduled | Dithiocarbamates              |
| 105  | Ziram           | 1965                    | 1996T                     | Listed-not scheduled | Listed-not scheduled | Dithiocarbamates              |
| 115  | Tecnazene       | 1974                    | 1994T                     | Listed-not scheduled | Listed-not scheduled | Support unknown               |
| 117  | Aldicarb        | 1979                    | 1992T, 1995T(ARfD), 1994R | Listed-not scheduled | Listed-not scheduled | Bayer CropScience             |
| 120  | Permethrin      | 1979                    | 1999T                     | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer |
| 122  | Amitraz         | 1980                    | 1998T                     | Listed-not scheduled | Listed-not scheduled | Arysta Lifesciences           |
| 145  | Carbosulfan     | 1984                    | 2003T, 1997R              | Listed-not scheduled | Listed-not scheduled |                               |
| 192  | Fenarimol       | 1995                    | None                      | Listed-not scheduled | Listed-not scheduled |                               |
| 197  | Fenbuconazole   | 1997                    | None                      | Listed-not scheduled | Listed-not scheduled | Dow                           |
| 199  | Kresoxim-methyl | 1998                    | None                      | Listed-not scheduled | Listed-not scheduled |                               |
| 202  | Fipronil        | 2000/2001               | None                      | Never scheduled      | Never scheduled      | BASF                          |



| Code | Chemical            | Initial JMPR evaluation | Periodic re-evaluation | Scheduled (Tox) | Scheduled (Residues) | Notes |
|------|---------------------|-------------------------|------------------------|-----------------|----------------------|-------|
| 200  | Pyriproxyfen        | 1999                    | None                   | Never scheduled | Never scheduled      |       |
| 203  | Spinosad            | 2001                    | None                   | Never scheduled | Never scheduled      |       |
| 204  | Esfenvalerate       | 2002                    | None                   | Never scheduled | Never scheduled      |       |
| 205  | Flutolanil          | 2002                    | None                   | Never scheduled | Never scheduled      |       |
| 206  | Imidacloprid        | 2001                    | None                   | Never scheduled | Never scheduled      |       |
| 207  | Cyprodinil          | 2003                    | None                   | Never scheduled | Never scheduled      |       |
| 208  | Famoxadone          | 2003                    | None                   | Never scheduled | Never scheduled      |       |
| 209  | Methoxyfenozide     | 2003                    | None                   | Never scheduled | Never scheduled      |       |
| 210  | Pyraclostrobin      | 2003                    | None                   | Never scheduled | Never scheduled      |       |
| 211  | Fludioxonil         | 2004                    | None                   | Never scheduled | Never scheduled      |       |
| 212  | Metalaxyl-M         | 2002                    | None                   | Never scheduled | Never scheduled      |       |
| 213  | Trifloxystrobin     | 2004                    | None                   | Never scheduled | Never scheduled      |       |
| 214  | Dimethenamid-P      | 2005                    | None                   | Never scheduled | Never scheduled      |       |
| 215  | Fenhexamid          | 2005                    | None                   | Never scheduled | Never scheduled      |       |
| 216  | Indoxacarb          | 2005                    | None                   | Never scheduled | Never scheduled      |       |
| 217  | Novaluron           | 2005                    | None                   | Never scheduled | Never scheduled      |       |
| 218  | Sulfuryl fluoride   | 2005                    | None                   | Never scheduled | Never scheduled      |       |
| 219  | Bifenazate          | 2006                    | None                   | Never scheduled | Never scheduled      |       |
| 220  | Aminopyralid        | 2007                    | None                   | Never scheduled | Never scheduled      |       |
| 221  | Boscalid            | 2006                    | None                   | Never scheduled | Never scheduled      |       |
| 222  | Quinoxyfen          | 2006                    | None                   | Never scheduled | Never scheduled      |       |
| 223  | Thiacloprid         | 2006                    | None                   | Never scheduled | Never scheduled      |       |
| 224  | Difenoconazole      | 2007                    | None                   | Never scheduled | Never scheduled      |       |
| 225  | Dimethomorph        | 2007                    | None                   | Never scheduled | Never scheduled      |       |
| 226  | Pyrimethanil        | 2007                    | None                   | Never scheduled | Never scheduled      |       |
| 227  | Zoxamide            | 2007                    | None                   | Never scheduled | Never scheduled      |       |
| 229  | Azoxystrobin        | 2008                    | None                   | Never scheduled | Never scheduled      |       |
| 230  | Chlorantraniliprole | 2008                    | None                   | Never scheduled | Never scheduled      |       |
| 231  | Mandipropamid       | 2008                    | None                   | Never scheduled | Never scheduled      |       |

| Code | Chemical           | Initial JMPR evaluation | Periodic re-evaluation | Scheduled (Tox) | Scheduled (Residues) | Notes                           |
|------|--------------------|-------------------------|------------------------|-----------------|----------------------|---------------------------------|
| 232  | Prothioconazole    | 2008                    | None                   | Never scheduled | Never scheduled      |                                 |
| 233  | Spinetoram         | 2008                    | None                   | Never scheduled | Never scheduled      |                                 |
| 234  | Spirotetramat      | 2008                    | None                   | Never scheduled | Never scheduled      |                                 |
| 235  | Fluopicolide       | 2009                    | None                   | Never scheduled | Never scheduled      |                                 |
| 236  | Metaflumizone      | 2009                    | None                   | Never scheduled | Never scheduled      |                                 |
| 237  | Spirodiclofen      | 2009                    | None                   | Never scheduled | Never scheduled      |                                 |
| 238  | Clothianidin       | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 239  | Cyproconazole      | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 240  | Cicamba            | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 241  | Etoxazole          | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 242  | Flubendiamide      | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 243  | Fluopyram          | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 244  | Meptyldinocap      | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 245  | Thiamethoxam       | 2010                    | None                   | Never scheduled | Never scheduled      |                                 |
| 246  | Acetamiprid        | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 247  | Emamectin-benzoate | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 248  | Flutriafol         | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 249  | Isopyrazam         | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 250  | Propylene oxide    | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 251  | Saflufenacil       | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 252  | Sulfoxaflor        | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 253  | Penthiopyrad       | 2011                    | None                   | Never scheduled | Never scheduled      |                                 |
| 254  | Chlorfenapyr       | 2012                    | None                   | Never scheduled | Never scheduled      | [BASF] – Brazil                 |
| 255  | Dinotefuran        | 2012                    | None                   | Never scheduled | Never scheduled      | [Mitsui Chemicals Agro] – Japan |
| 256  | Fluxapyroxad       | 2012                    | None                   | Never scheduled | Never scheduled      | [BASF] – USA                    |
| 257  | MCPA               | 2012                    | None                   | Never scheduled | Never scheduled      | [Nufarm] – USA                  |
| 258  | Picoxystrobin      | 2012                    | None                   | Never scheduled | Never scheduled      | [Dupont] -USA                   |
| 259  | Sedaxane           | 2012                    | None                   | Never scheduled | Never scheduled      | [Syngenta] – USA                |
| 260  | Ametoctradin       | 2012                    | None                   | Never scheduled | Never scheduled      | [BASF] – USA                    |

| Code | Chemical            | Initial JMPR evaluation | Periodic re-evaluation | Scheduled (Tox) | Scheduled (Residues) | Notes                  |
|------|---------------------|-------------------------|------------------------|-----------------|----------------------|------------------------|
| 999  | Bixafen             | 2013                    | None                   | Never scheduled | Never scheduled      | Bayer CropScience      |
| 999  | Cyantraniliprole    | 2013                    | None                   | Never scheduled | Never scheduled      | DuPont                 |
| 999  | Fenamidone          | 2013/14                 | None                   | Never scheduled | Never scheduled      | Bayer CropScience      |
| 999  | Fluensulfone        | 2013/14                 | None                   | Never scheduled | Never scheduled      | Makhteshim             |
| 999  | Imazapic            | 2013                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Imazapyr            | 2013                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Isoxaflutole        | 2013                    | None                   | Never scheduled | Never scheduled      | Bayer CropScience      |
| 999  | Tolfenpyrad         | 2013                    | None                   | Never scheduled | Never scheduled      | Nihon Nohyaku          |
| 999  | Triflumizole        | 2013                    | None                   | Never scheduled | Never scheduled      | Nippon Soda            |
| 999  | Trinexapac          | 2013                    | None                   | Never scheduled | Never scheduled      | Syngenta               |
| 999  | Benzovindiflupyr    | 2013                    | None                   | Never scheduled | Never scheduled      | Syngenta               |
| 999  | Aminocyclopyrachlor | 2014                    | None                   | Never scheduled | Never scheduled      | DuPont                 |
| 999  | Cyflumetofen        | 2014                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Dichlobenil         | 2014                    | None                   | Never scheduled | Never scheduled      | Chemtura               |
| 999  | Flufenoxuron        | 2014                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Imazamox            | 2014                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Mesotrione          | 2014                    | None                   | Never scheduled | Never scheduled      | Syngenta               |
| 999  | Metrafenone         | 2014                    | None                   | Never scheduled | Never scheduled      | BASF                   |
| 999  | Pymetrozine         | 2014                    | None                   | Never scheduled | Never scheduled      | Syngenta               |
| 999  | Acetochlor          | 2015                    | None                   | Never scheduled | Never scheduled      | Monsanto               |
| 999  | Cyazofamid          | 2015                    | None                   | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha |
| 999  | Fenazaquin          | 2015                    | None                   | Never scheduled | Never scheduled      | Gowan                  |
| 999  | Flonicamid          | 2015                    | None                   | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha |
| 999  | Fluazifop-p-butyl   | 2015                    | None                   | Never scheduled | Never scheduled      | Syngenta               |
| 999  | Flumioxazin         | 2015                    | None                   | Never scheduled | Never scheduled      | Sumitomo               |
| 999  | Flupyradifurone     | 2015                    | None                   | Never scheduled | Never scheduled      | Bayer CropScience      |
| 999  | Phosphorous acid    | 2015                    | None                   | Never scheduled | Never scheduled      | ?                      |
| 999  | Pyrifluquinazon     | 2015                    | None                   | Never scheduled | Never scheduled      | Nihon Nohyaku          |
| 999  | Quinclorac          | 2015                    | None                   | Never scheduled | Never scheduled      | BASF                   |

| Code | Chemical             | Initial JMPR evaluation | Periodic re-evaluation | Scheduled (Tox) | Scheduled (Residues) | Notes             |
|------|----------------------|-------------------------|------------------------|-----------------|----------------------|-------------------|
| 999  | Norfluazuron         | 2016                    | None                   | Never scheduled | Never scheduled      | Syngenta          |
| 999  | Spiromesifen         | 2016                    | None                   | Never scheduled | Never scheduled      | Bayer CropScience |
| 999  | Acibenzolar-S methyl | 2016                    | None                   | Never scheduled | Never scheduled      |                   |
| 999  |                      |                         | None                   | Never scheduled | Never scheduled      |                   |
| 999  |                      |                         | None                   | Never scheduled | Never scheduled      |                   |
| 999  |                      |                         | None                   | Never scheduled | Never scheduled      |                   |

**TABLE 4: CHEMICAL-COMMODITY COMBINATIONS FOR WHICH SPECIFIC GAP IS NO LONGER SUPPORTED**

| Code | Chemical    | Comments   |
|------|-------------|--|
| 49   | Malathion   | Apple; citrus; grapes (EU GAP no longer supported by EU)                             |
| 39   | Fenthion    | Cherry; citrus fruits; olive oil (virgin); olives (EU GAP no longer supported by EU) |
| 162  | Tolyfluanid | All commodities (EU GAP no longer supported)   |