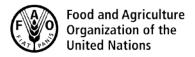
CODEX ALIMENTARIUS COMMISSION







Viale delle Terme di Caracalla, 00153 Rome, Italy - Tel: (+39) 06 57051 - E-mail: codex@fao.org - www.codexalimentarius.org

REP17/PR

JOINT FAO/WHO FOOD STANDARDS PROGRAMME **CODEX ALIMENTARIUS COMMISSION**

40th Session CICG, Geneva, Switzerland 17 - 22 July 2017

REPORT OF THE 49th SESSION OF THE **CODEX COMMITTEE ON PESTICIDE RESIDUES** Beijing, P.R. China, 24 - 29 April 2017

TABLE OF CONTENTS

Summary and Conclusions	page ii
List of Abbreviations	page 1
Report of the 49th Session of the Committee on Pesticide Residues	page 18
	Paragraphs
INTRODUCTION	1
OPENING OF THE SESSION	2 – 3
DIVISION OF COMPETENCE	4
ADOPTION OF THE PROVISIONAL AGENDA (Agenda Item 1)	5
APPOINTMENT OF RAPPORTEURS (Agenda Item 2)	6
MATTERS REFERRED TO THE COMMITTEE BY THE CODEX ALIMENTARIUS COMMISSION AND/OR OTHER SUBSIDIARY BODIES (Agenda Item 3)	7
MATTERS OF INTEREST ARISING FROM FAO AND WHO (Agenda 4a)	8 - 15
MATTERS OF INTEREST ARISING FROM OTHER INTERNATIONAL ORGANISATIONS (Agenda Item 4b)	16 - 17
REPORT ON ITEMS OF GENERAL CONSIDERATION BY THE 2016 JMPR SPECIAL AND REGULAR SESSIONS (Agenda Item 5a)	18 - 20
REPORT ON 2016 JMPR RESPONSES TO SPECIFIC CONCERNS RAISED BY CCPR (Agenda Item 5b)	21
DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PETICIDES IN FOOD AND FEED AT STEPS 7 AND 4 (Agenda Item 6)	22 - 110
General remarks	22 - 26
DIAZINON (22)	27
MALATHION (49)	28
METHIDATHION (51)	29
CHLOROTHALONIL (81)	30 - 31
CHLORPYRIFOS-METHYL (90)	32 - 35
DELTAMETHRIN (135)	36
METALAXYL (138)	37
METHOPRENE (147)	38 - 40
GLYPHOSATE (158)	41 - 42
BENTAZONE (172)	43 - 44
BUPROFEZIN (173)	45 - 47
BIFENTHRIN (178)	48
PENCONAZOLE (182)	49 - 50
FENPROPIMORPH (188)	51 - 52
TEFLUBENZURON (190)	53 - 55
FIPRONIL (202)	56 - 57

	Paragraphs
DIMETHOMORPH (225)	58
CHLORANTRANILIPROLE (230)	59 - 60
SAFLUFENACIL (251)	61 - 63
SULFOXAFLOR (252)	64 - 65
PENTHIOPYRAD (253)	66 - 67
PICOXYSTROBIN (258)	68
BENZOVINDIFLUPYR (261)	69 - 71
BIXAFEN (262)	72 - 73
FLUENSULFONE (265)	74 - 76
TOLFENPYRAD (269)	77
METRAFENONE (278)	78
ACETOCHLOR (280)	79
FLONICAMID (282)	80 - 82
FLUAZIFOP-P-BUTYL (283)	83 - 86
FLUPYRADIFURONE (285)	87 - 89
ACIBENZOLAR-S-METHYL (288)	90 - 92
IMAZETHAPYR (289)	93 - 94
ISOFETAMID (290)	95 - 96
OXATHIAPIPROLIN (291)	97 - 101
PENDIMETHALIN (292)	102 - 104
PINOXADEN (293)	105 - 107
SPIROMESIFEN (294)	108 - 109
Conclusion	110
DRAFT REVISION OF THE <i>CLASSIFICATION OF FOOD AND FEED</i> AT STEP 7: VEGETABLE COMMODITY GROUPS – (Agenda Item 7a)	111 - 115
DRAFT REVISION THE <i>CLASSIFICATION OF FOOD AND FEED</i> AT STEP 4: SELECTED COMMODITY GROUPS – GROUP 020 GRASSES OF CEREAL GRAINS (Agenda Item 7b)	116 - 122
PROPOSED DRAFT REVISION OF THE <i>CLASSIFICATION OF FOOD AND FEED</i> : SELECTED COMMODITY GROUPS – GROUP 021 GRASSES FOR SUGARS OR SYRUP PRODUCTION (Agenda Item 7c)	123 - 127
PROPOSED DRAFT REVISION OF THE <i>CLASSIFICATION OF FOOD AND FEED</i> : SELECTED COMMODITY GROUPS – GROUP 024 SEEDS FOR BEVERAGES AND SWEETS (Agenda Item 7d)	128 - 131
PROPOSED DRAFT TABLES ON EXAMPLES OF SELECTION OF REPRESENTATIVE COMMODITIES (FOR INCLUSION IN THE PRINCIPLES AND GUIDANCE FOR THE SELECTION OF REPRESENTATIVE COMMODITIES FOR THE EXTRAPOLATION OF MAXIMUM RESIDUE LIMITS FOR PESTICIDES FOR COMMODITY GROUPS) (Agenda Item 7e)	132 - 143

REP17/PR iv

	Paragraphs
PROPOSED DRAFT GUIDELINES ON PERFORMANCE CRITERIA FOR METHODS OF ANALYSIS FOR THE DETERMINATION OF PESTICIDE RESIDUES (Agenda Item 8)	144 - 146
DISCUSSION PAPER ON THE POSSIBLE REVISION OF THE INTERNATIONAL ESTIMATE OF SHORT-TERM INTAKE (IESTI) EQUATIONS (Agenda Item 9)	147 - 163
ESTABLISHMENT OF CODEX SCHEDULES AND PRIORITY LISTS OF PESTICIDES (Agenda Item 10a)	164 - 173
INFORMATION ON NATIONAL REGISTRATIONS OF PESTICIDES (BASED ON INFORMATION SUBMITTED IN REPLY TO CL 2017/18-PR) DISCUSSION PAPER ON THE ESTABLISHEMENT OF A CODEX DATABASE OF NATIONAL REGISTRATIONS OF PESTICIDES (Agenda Item 10b)	174 - 177
OTHER BUSINESS AND FUTURE WORK (Agenda Item 11)	178
DATE AND PLACE OF THE NEXT SESSION (Agenda Item 12)	179

LIST OF APPENDICES

		Pages
APPENDIX I	LIST OF PARTICIPANTS	17
APPENDIX II	DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (AT STEP 8)	37
APPENDIX III	PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (AT STEP 5/8)	38
APPENDIX IV	MAXIMUM RESIDUE LIMITS FOR PESTICIDES RECOMMENDED FOR REVOCATION	50
APPENDIX V	DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (AT STEP 7)	53
APPENDIX VI	PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (AT STEP 4)	54
APPENDIX VII	DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES WITHDRAWN BY CCPR	55
APPENDIX VIII	DRAFT AND PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: VEGETABLE COMMODITY GROUPS (AT STEPS 8 AND 5/8) PROPOSED DRAFT TABLE 2: EXAMPLES OF REPRESENTATIVE COMMODITIES FOR VEGETABLE COMMODITY GROUPS (AT STEP 5/8)	56
APPENDIX IX	EDITORIAL AMENDMENTS TO THE CLASSIFICATION OF FOOD AND FEED: FRUIT COMMODITY GROUPS	109
APPENDIX X	NOTES TO BE ADDED TO THE EXISTING GROUP CXLs WHEN A NEW CROP IS RELOCATED TO THIS GROUP (AS A RESULT OF THE REVISION OF THE CLASSIFICATION OF FOOD AND FEED	136
APPENDIX XI	DRAFT AND PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: GRASSES (Group 020 - Grasses of Cereals Grains and Group 021 - Grasses for Sugars or Syrup Production) (AT STEPS 8 AND 5/8) PROPOSED DRAFT TABLE 3: EXAMPLES OF REPRESENTATIVE COMMODITIES FOR GRASSES (Group 020 - Grasses of Cereals Grains and Group 021 - Grasses for Sugars or Syrup Production) (AT STEP 5/8)	137
APPENDIX XII	PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED: GROUP 024 SEEDS FOR BEVERAGES AND SWEETS (STEP 5)	145
APPENDIX XIII	DRAFT GUIDELINES ON PERFORMANCE CRITERIA FOR METHODS OF ANALYSIS FOR THE DETERMINATION OF PESTICIDE RESIDUES (AT STEP 8)	146
APPENDIX XIV	CODEX SCHEDULES AND PRIORITY LIST OF PESTICIDES FOR EVALUATION BY JMPR)	

SUMMARY AND STATUS OF WORK

Responsible Party	Purpose	Text/Topic	Code	Step	Para(s).
Members CCEXEC73 CAC40	Adoption	Proposed draft and draft MRLs for different combinations of pesticide/commodity(ies) proposed by adoption by CCPR49		5/8 8	110
CCEXEC73 CAC40	Revocation	CXLs for different combinations of pesticide/commodity(ies) proposed for revocation by CCPR49			110
JMPR 2017 (or future sessions) Members CCPR50 (or future sessions)	Action / Information	Proposed draft and draft MRLs for different combinations of pesticide/commodity(ies) that were retained by CCPR49 awaiting further assessment from JMPR		4 7	110
CCEXEC73 CAC40	Information	Proposed draft and draft MRLs for different combinations of pesticide/commodity(ies) that were withdrawn (discontinued) by CCPR49		4 7	110
Members CCEXEC73 CAC40	Adoption	Proposed draft and draft revision of the Classification of Food and Feed: Vegetable Commodity Groups		5/8 8	115
		Proposed draft Table 2 on examples of representative commodities for vegetable commodity groups (for inclusion in the Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of MRLs for Pesticides to Commodity Groups)		5/8	140
		Editorial amendments to the Classification of Food and Feed: Fruit Commodity Groups	CAC/MISC 4-1989		115
		Proposed draft and draft revision of the Classification of Food and Feed: Grasses		5/8 8	127
		Proposed draft Table 3 on examples of representative commodities for grasses (for inclusion in the <i>Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of MRLs for Pesticides to Commodity Groups</i>)		5/8	140
Members CCEXEC73 CAC40 EWG (USA and Netherlands) Members CCPR50	Adoption / Action	Proposed draft revision of the Classification of Food and Feed: Seeds for Beverages and Sweets		5	131

REP17/PR vii

Responsible Party	Purpose	Text/Topic	Code	Step	Para(s).
EWG (USA and Netherlands) Members CCPR50	Action	Proposed draft and draft revision of the Classification of Food and Feed for selected commodity groups (including seeds for beverages and sweets)		2/3	141
		Proposed draft tables on examples of representative commodities (including seeds for beverages and sweets)			
Codex Secretariat CCPR50	Action / Information	Notes to be added to the existing group CXLs as a result of the revision of the Classification of Food and Feed			115
Members CCEXEC73 CAC40	Adoption	Draft Guidelines on Performance Criteria for Methods of Anaysis for the Determination of Pesticide Residues		8	146
EWG (Netherlands, Australia, Uganda) CCPR50	Action	Review of the IESTI equations (possible revision of the IESTI equations)			161-163
CCEXEC73 CAC40 JMPR 2018	Approval (new work)	JMPR 2018 Schedule for evaluations of pesticides (Part A)		1/2/3	177
EWG (Australia and Germany) Members CCPR50	Action (follow-up by CCPR / JMPR)	JMPR schedules for evaluations of pesticides (Part 2)			177
EWG (Australia and Germany) Codex Secretariat Members CCPR50	Action	Information on national registration of pesticides Establishment of a Codex database of national registration of pesticides			177

REP17/PR viii

LIST OF ABBREVIATIONS

ADI Acceptable Daily Intake

ALINA The Latinamerican Association of the National Agrochemical Industries

ARfD Acute Reference Dose

AU African Union

CAC Codex Alimentarius Commission

CCEXEC Executive Committee

CCMAS Codex Committees on Methods of Analysis and Sampling

CCPR Codex Committee on Pesticide Residues

CCRVDF Codex Committee on Residues of Veterinary Drugs in Foods

CL Circular Letter

CLI CropLife International

CRD Conference Room Document

CXL Codex Maximum Residue Limit for Pesticide (as adopted by CAC)

DIE Daily Intake Estimate

EFSA European Food Safety Authority

EHC Environmental Health Criteria

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

GLP Good laboratory practices

HR Highest residue in edible portion of a commodity found in trials used to estimate a

maximum residue level of pesticide(s) in the commodity

IAEA International Atomic Energy Agency

IEDI International Estimated Daily Intake

IESTI International Estimate of Short-Term Intake
IGG FAO Intergovernmental Group (IGG) on Tea

JECFA Joint FAO/WHO Expert Committee on Food Additives

JMPR Joint FAO/WHO Meeting on Pesticide Residues

LOQ Limit of Quantification

MRL Maximum Residue Limit

NHF National Health Federation

OECD Organization for Economic Co-operation and Development

PAD Pesticide Attributes Database

REP17/PR ix

PWG Physical Working Group

RIVM National Institute for Public Health and the Environment

STMR Supervised Trial Median Residues

TF/AMR Codex Task Force on Antimicrobial Resistance

TDI Tolerable Daily Intake

TTC Threshold of Toxicological Concern

USA United States of America

WG Working group

WHO World Health Organization

WTO World Trade Organization

INTRODUCTION

1. The 49th Session of the Codex Committee on Pesticide Residues (CCPR) was held in Beijing, China, from 24 to 29 April 2017 at the kind invitation of the Government of the People's Republic of China. Professor Xiongwu QIAO, Director of the Shanxi Academy of Agricultural Science chaired the Session, assisted by Dr Guibiao YE, Director of CCPR Secretariat, Institute for Control of Agrochemicals, Ministry of Agriculture of the People's Republic of China. Representatives from 52 Member countries, one Member organization, 11 international organizations attended the Session. The list of participants is attached as Appendix I.

OPENING OF THE SESSION¹

- 2. Mr Xinrong YU, Vice-Minister of Agriculture of the People's Republic of China, opened the Session and welcomed the participants. Mr Vincent Martin, FAO Representative in China and Mr Tom Heilandt, Secretary of the Codex Alimentarius Commission also addressed the meeting.
- 3. Mr YU indicated that China would continue to support and participate in the work of the Commission and its subsidiary bodies to promote the setting of internationally harmonized food safety standards in particular in the area of harmonization of maximum residue limits for pesticides within the framework of CCPR. He noted the following points: China had issued a revised Pesticide Management Regulation in March 2017 that would enter into effect on 1 June 2017; China was planning to establish 6,000 MRLs during 2016-2020; the Ministry of Agriculture was vigorously promoting sustainable agricultural development and zero growth use of fertilizers and pesticides; the implementation of these measures would raise the level of food security and food safety in the country and would further improve ecological environment.

Division of Competence²

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

ADOPTION OF THE PROVISIONAL AGENDA (Agenda Item 1)3

- 5. The Committee adopted the Provisional Agenda as its Agenda for the Session and agreed to establish insession working groups:
 - i. To consider the comments submitted on the guidelines on performance criteria for methods of analysis for the determination of pesticide residues in order to prepare a revised version for consideration by the plenary chaired by the United States of America and co-chaired by China and India (Agenda Item 8); and
 - ii. To consider the recommendations on the review of the IESTI equations in order to determine further work on this matter for consideration by the plenary chaired by the Netherlands and co-chaired by Australia (Agenda Item 9).

APPOINTMENT OF RAPPORTEURS (Agenda Item 2)

6. 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/OR OTHER SUBSIDIARY BODIES (Agenda Item 3)4

7. The Committee noted that matters referred from CAC39 (2016).

MATTERS OF INTEREST ARISING FROM FAO AND WHO (Agenda Item 4a)⁵ Coordination of work between JECFA and JMPR Call for pesticide monitoring data

- 8. The Representative of WHO provided relevant information to CCPR on FAO/WHO scientific advice regarding:
 - On-going harmonization of the dietary exposure methodologies for compounds used both as pesticides and veterinary drugs.
 - Collection of pesticide monitoring data through the GEMS/Food platform to serve the ongoing review of the IESTI equations.

3 CX/PR 17/49/01

CRD25 (Remarks delivered at the opening ceremony)

² CRD01

⁴ CX/PR 17/49/02

⁵ CX/PR 17/49/03; CX/PR 17/49/03-Add.1; Comments of EU, Ghana, Kenya, Uganda and AU (CRD04); Nigeria (CRD12); Senegal (CRD14)

9. Delegations welcomed coordination of work between JECFA and JMPR for the safety assessment of compounds used both as pesticides and veterinary drugs and expressed their interest in submitting national monitoring data to GEMS/Food.

- 10. In particular, the following points were raised:
 - In addition to harmonization of the dietary exposure methodologies for risk assessment, the
 discussion should also cover aspects such as the review of the matrices for which Codex MRLs
 (CXLs) are established, harmonization of the residue definition, harmonization of the specifications,
 etc. to ensure that toxicological reference values derived from pesticides are applicable to active
 substances used as veterinary drugs and vice-versa.
 - There is a need for a harmonized protocol for data generation so that data submitted can be compatible with GEMS/Food requirements. FAO and WHO should assist countries in submitting harmonized data that are comparable and can effectively be used by FAO, WHO and JMPR. Robust and geographical representative data are one of the key issues within the framework of the discussion on the review of the IESTI equations. There should be a continuous collection of pesticide monitoring data in order to allow observing the long term trends.
- 11. The Committee supported coordination of work between JECFA and JMPR for the safety assessment of compounds used both as pesticide and veterinary drugs and encouraged Codex members to submit data to GEMS/Food in reply to the call for data for pesticide monitoring data.

Update on FAO work on antimicrobial resistance with a focus on antimicrobial use in horticulture

- 12. The Representative of FAO informed the Committee about the FAO activities on AMR arising from the antimicrobial use of pesticides in horticulture, carried in the context of the Global Action Plan on AMR. The Representative also indicated the challenge faced by FAO to evaluate the risk and benefits of the use of these products in horticulture and determine the extent to which their use might contribute to AMR.
- 13. The Representative encouraged Codex members and observers to support the FAO/WHO scientific advice work in support of the recently established Codex Task Force on Antimicrobial Resistance by identifying sources of data on antimicrobial use in horticultural systems and supporting data collection efforts.
- 14. The Codex Secretariat provided additional information on the establishment of the TFAMR, to be hosted by the Republic of Korea and its mandate to: (i) revise the *Code of Practice to Control and Minimize Antimicrobial Resistance* (CAC/RCP 61-2005) to cover the entire food chain and (ii) the development of guidance in integrated surveillance of antimicrobial resistance. The Secretariat emphasized the importance for members and observers to provide the requested information to support the work of the TFAMR.
- 15. The Committee encouraged Codex members and observers to submit information to FAO on antimicrobial use of pesticides in horticultural systems as indicated in paragraph 7 of CX/PR 17/49/03-Add.1.

MATTERS OF INTEREST ARISING FROM OTHER INTERNATIONAL ORGANIZATIONS (Agenda Item 4b)⁶

- 16. The Committee noted information provided by IAEA, OECD, and Australia (APEC) on their activities relevant to the work of CCPR.
- 17. Members from African countries thanked the IAEA for their technical support they were providing in the region.

REPORT ON ITEMS OF GENERAL CONSIDERATION BY THE 2016 JMPR (Agenda Item 5a)⁷

18. The JMPR Secretariat provided relevant information for CCPR on JMPR sessions held in 2016 regarding:

JMPR Special Session (May 2016)

- General considerations on the evaluation of genotoxic studies
- Methods for the evaluation of epidemiological evidence for risk assessment

JMPR Regular Session (September 2016)

- Benchmark dose
- Chemical-specific adjustment factors (CSAFs)
- Guidance on the use and interpretation of statistical evaluations and historical control data
- JMPR guidance documents for WHO monographers and reviewers
- Evaluation of genotoxicity data
- Update of the OECD livestock animal burden feed table

⁶ CX/PR 17/49/04; CRD26 (Australia (APEC))

Section 2 of the 2016 JMPR Report. Comments of EU, Ghana, Uganda, AU (CRD05); Nigeria (CRD12); China (CRD16)

- 19. The Committee noted:
 - The information contained in Section 2 of the JMPR reports; and
 - The support of Codex members on the update of the EHC240 in particular on criteria for the evaluation of genotoxicity studies; the use of epidemiological evidences to support risk assessment; and the use of benchmark dose approach to establish ADIs.

20. The Committee noted the information contained in Section 2 of the 2016 JMPR Report and the support of Codex members for such activities as follows:

REPORT ON THE JMPR RESPONSES TO SPECIFIC CONCERNS RAISED BY CCPR (Agenda Item 5b)8

21. The Committee noted that the outcome of the toxicological assessment of diazinon, glyphosate and malathion (JMPR Special Session) and the replies to specific concerns raised by CCPR (JMPR Regular Session) would be considered when discussing the relevant compounds under Agenda Item 6.

DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES IN FOOD AND FEED AT STEPS 7 AND 4 (Agenda Item 6) 9

General remarks

- 22. The EU advised the Committee that they would be introducing reservations for a number of proposed draft and draft MRLs during the discussions on the individual compounds and that the reasons for these reservation were outlined in CRD06.
- 23. The EU explained to the Committee that it was current EU policy to align EU MRLs with Codex MRLs (CXLs) if three conditions were fulfilled: (i) that the EU sets MRLs for the commodity under consideration; (ii) that the current EU MRL is lower than the CXL; and (iii) that the CXL is acceptable to the EU with respect to aspects such as consumer protection, supporting data, and extrapolations.
- 24. In the interest of transparency the Delegation advised the Committee that they would be making reservations during the discussions on the individual compounds where they considered the third criterion had not been met (CRD06).
- 25. Norway advised the Committee that they supported all EU reservations as their residue risk assessment approach was the same as that of the EU.
- 26. The Committee agreed that these reservations, where relevant, would be noted in the report.

DIAZINON (22)

27. The Committee noted that the JMPR special session held in May 2016 had re-evaluated all available toxicology data. The JMPR concluded that diazinon was unlikely to pose a carcinogenic risk to humans from dietary exposure. JMPR had also revised the ADI to 0-0.003 mg/kg bw and reconfirmed the ARfD of 0.03 mg/kg bw and had concluded that there were no dietary exposure concerns identified and no impact on existing CXLs.

MALATHION (49)

28. The Committee noted that the JMPR special session held in May 2016 had re-evaluated all available toxicology data. The JMPR concluded that malathion was unlikely to pose a carcinogenic risk to humans from dietary exposure. The JMPR had reconfirmed the ADI of 0-0.3 mg/kg bw and the ARfD of 2 mg/kg bw and had concluded that no dietary exposure concerns and no impact on existing CXLs.

METHIDATHION (51)

29. The Committee noted that the 48th session had agreed to consider withdrawing all existing CXLs at this session because of public health concerns. The Committee was informed that toxicology and residue data would be made available to JMPR for a periodic review. While there was support for the revocation of all CXLs, the Committee agreed to retain the CXLs for apple; cherry; grapes; mandarins; pear; and tea; awaiting the periodic review by JMPR in 2020. The Committee noted that data would also be provided for peach and mango. The Committee agreed to withdraw all other existing CXLs.

CHLOROTHALONIL (81)

30. In response to a concern form submitted to the 48th Session of CCPR, the JMPR Secretariat explained that the 2016 JMPR had re-assessed the existing storage stability data for chlorothalonil and its metabolite in cranberry and had confirmed its previous conclusions that residues were not stable over the 10-month storage period in the field trials.

⁸ Section 3 of the 2016 JMPR Report; Comments of Australia, EU, Ghana, Kenya, Thailand and AU (CRD06); China (CRD16)

⁹ CX/PR 17/49/05; Comments of Australia, Brazil, Canada, Cuba and Ecuador (CX/PR 17/49/05-Add.1); Australia, EU, Ghana, Kenya, Thailand and AU (CRD06); Japan (CRD13); Indonesia (CRD15); China (CRD16); USA (CRD17)

31. The Committee was informed that new studies on cranberry would be available in 2018 and agreed to retain the CXL for cranberry awaiting evaluation by the 2019 JMPR.

CHLORPYRIFOS-METHYL (90)

- 32. Australia informed the Committee that regretfully it would be unable to provide additional cereal grains data for review by the 2019 JMPR. To avoid any additional inconvenience the Delegation proposed that the Committee return to the maximum residue level recommendations of the 2009 JMPR.
- 33. The Committee agreed to the Australian proposal to adopt the JMPR 2009 recommendations for barley; wheat; wheat bran, unprocessed; and wheat germ; to revoke the associated CXLs and to withdraw the related cereal commodity recommendations from the 1994 and 2013 JMPRs.
- 34. The Committee noted the reservation of the EU and Norway on the advancement of the draft maximum residue levels for barley; wheat; wheat bran unprocessed; and wheat germ as the compound was currently the subject of an ongoing review.
- 35. The Observer from NHF expressed its concern about the detrimental health effect of this compound upon humans and animals.

DELTAMETHRIN (135)

36. The Committee decided to advance the proposed draft MRL for rape seed for adoption at Step 5/8, as recommended by the 2016 JMPR.

METALAXYL (138)

37. The Committee noted that metalaxyl was scheduled for periodic review in 2018 and agreed that if there were no data submitted before the end of 2017, revocation of all metalaxyl CXLs and the advancement of the metalaxyl-M draft maximum residue levels would be considered at the next session of the Committee.

METHOPRENE (147)

- 38. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRL for oilseed, except peanut as a chronic dietary exposure concern had been identified for European consumers and that studies investigating the metabolic behaviour following post-harvest treatment and on the nature and magnitude of the residues in processed products were not available.
- 39. In response to the EU comment that the dietary burden calculations were not included in the JMPR report, the JMPR Secretariat advised that this information was now available in the Annex to the 2016 JMPR Report.
- 40. The Committee agreed to advance the proposed draft MRL for oilseed, except peanut to Step 5/8, as recommended by the 2016 JMPR.

GLYPHOSATE (158)

- 41. The Committee noted that the JMPR special session, held in May 2016 had re-evaluated all available toxicology data and concluded that glyphosate was unlikely to pose carcinogenic risk to humans from dietary exposure; that there were no dietary exposure concerns and no impact on existing CXLs. The existing group ADI of 0-1 mg/kg bw was confirmed, as was the previous conclusion that an ARfD was not necessary.
- 42. The Committee noted the comment from the Observer from NHF that they hold a counter opinion on carcinogenicity of glyphosate and oppose that use of glyphosate.

BENTAZONE (172)

- 43. The JMPR Secretariat informed the Committee that new toxicology studies reviewed by experts of WHO guidelines for Drinking-water Quality had been submitted to the 2016 JMPR and that an ARfD of 0.5 mg/kg bw had been established.
- 44. A dietary exposure assessment was performed and the JMPR confirmed that there was no dietary exposure concern and no impact on existing CXL for this compound.

BUPROFEZIN (173)

- 45. The Committee decided to advance the proposed draft MRL for avocado, basil and soya bean (dry) for adoption at Step 5/8, as recommended by the 2016 JMPR.
- 46. The Committee noted the reservations of the EU, Norway and the comments from the Observer from NHF on the advancement of the proposed draft MRLs because of their health concern arising from the potential presence of aniline under high temperature processing conditions.

47. The JMPR Secretariat indicated that aniline should be treated as a contaminant as it could occur from a variety of sources. From that perspective a data call was launched in 2015 for relative occurrence to enable an assessment to be completed by JECFA. Unfortunately no data was received. The Secretariat also indicated that if a processing study was available the JMPR could look at aniline arising from buprofezin specifically. The Observer from CropLife indicated that the manufacturer could submit new processing studies to JMPR in 2019.

BIFENTHRIN (178)

48. The Committee decided to withdraw the proposed MRLs for mango and papaya, due to a lack of GAP information and agreed to hold the maximum residue level recommendation for okra at Step 7 awaiting data from India.

PENCONAZOLE (182)

- 49. The Committee noted the reservations from the EU and Norway as the compound was the subject of an ongoing review in the EU.
- 50. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs as recommended by the 2016 JMPR.

FENPROPIMORPH (188)

- 51. The Committee noted that the 2016 JMPR established new health based guidance values; an ADI of 0–0.004 mg/kg bw and an ARfD of 0.4 mg/kg bw for the general population and an ARfD of 0.1 mg/kg bw for women of child-bearing age.
- 52. The Committee also noted that there was a different policy regarding the setting of toxicological reference values in the EU, which precluded establishing health based guidance value for different population groups.

TEFLUBENZURON (190)

- 53. The Committee noted the reservation of the EU and Norway on the advancement of the proposed draft MRLs for apples on the methodological concerns, and for the meat MRLs due to different policies on the setting of MRLs for muscle and fat for fat soluble pesticides. In response to the EU reservation on apples, the JMPR Secretariat advised that while the number of applications differed from GAP, the total application rate matched GAP, and that as decline trials showed no residue decrease, the JMPR agreed that the supervised trials matched Brazilian GAP.
- 54. The Committee noted the comment from the Observer from NHF over the continued use of this compound because of ecotoxicity concerns.
- 55. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8 and withdraw the CXLs for Brussels sprouts; cabbages, head; plums (including prunes) (includes all commodities in this subgroup); pome fruits; potato, as recommended by the 2016 JMPR.

FIPRONIL (202)

- 56. The EU and Norway expressed a reservation on the advancement of the proposed draft MRL for Basil due to their different residue definition for enforcement.
- 57. The Committee agreed to advance the proposed draft MRL for Basil for adoption at Step 5/8, as recommended by the 2016 JMPR.

DIMETHOMORPH (225)

58. The Committee agreed to advance the proposed draft MRL of 9 mg/kg for lettuce, leaf for adoption at Step 5/8, and to withdraw the previous recommendation of 20 mg/kg for Lettuce, Leaf, as recommended by the 2016 JMPR.

CHLORANTRANILIPROLE (230)

- 59. The EU and Norway expressed a reservation on the advancement of the proposed draft MRL for poultry meat due to their different policy on setting MRLs for muscle and fat for fat soluble pesticides.
- 60. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs as recommended by the 2016 JMPR.

SAFLUFENACIL (251)

61. The Committee noted the reservation of the EU and Norway on the advancement of all proposed draft MRLs due to a different enforcement residue definition. The Committee also noted the EU comment that an ARfD had been established in the EU and that they had identified potential acute dietary exposure concerns with regard to edible offal (mammalian).

62. The Committee also noted the concern raised by the Observer from NHF over potential ecotoxicological effects from use of the compound.

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

SULFOXAFLOR (252)

- 64. The JMPR Secretariat informed the Committee that JMPR had received data for tree nuts; rice and other commodities in 2016, however as no labels were available the JMPR was not able to recommend maximum residue levels.
- 65. The Committee noted that labels had now been received and sulfoxaflor was scheduled for JMPR evaluation in 2018.

PENTHIOPYRAD (253)

- 66. The JMPR Secretariat informed the Committee that the GAP information provided by Australia allowed no consideration of an alternative GAP, for mustard greens and the Committee agreed to withdraw the proposed MRL for mustard greens.
- 67. The Committee agreed to advance the proposed draft MRL for maize fodder (dry) for adoption at Step 5/8.

PICOXYSTROBIN (258)

68. The JMPR Secretariat informed the Committee that the 2016 JMPR had received a new metabolism study on soya bean. After reviewing the new data the JMPR indicated that further information on the possible interconversion of the two metabolites was required. Additional information had been provided by the manufacturer for review by the 2017 JMPR.

BENZOVINDIFLUPYR (261)

- 69. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRLs for Fruiting vegetables, Cucurbits, due to a different policy on setting crop group MRLs; on the setting of MRLs for meat due to a different policy on setting MRLs for muscle when considering fat soluble residues. The EU also commented that a draft MRL 0.02 mg/kg for mammalian fats (except milk fat), as estimated by the OECD calculator, would be sufficient rather than the recommended 0.03 mg/kg.
- 70. The JMPR Secretariat commented that JMPR had a different policy on setting Crop Group MRLs and noted that if residues in the different commodities were similar, the JMPR would recommend group MRLs. Regarding the draft MRL for mammalian fats (except milk fat) the JMPR Secretariat indicated that the highest residue of 0.019 mg/kg was too close the calculator derived MRL estimate and chose the higher 0.03 mg/kg level.
- 71. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8, with the subsequent revocation of the associated CXLs.

BIXAFEN (262)

- 72. The Committee noted the reservation of the EU and Norway on the advancement of the proposed draft MRLs for meat (from mammals other than marine mammals) and poultry meat due to a different policy on setting MRLs for muscle and fat for fat-soluble pesticides.
- 73. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8.

FLUENSULFONE (265)

- 74. The EU and Norway expressed a reservation on the advancement of all the proposed draft MRLs due to questions on the residue definition (results of the metabolism studies did not reflect results from the field trials) and concern over the genotoxic potential of the methyl sulfone metabolite.
- 75. In response to the genotoxicity of methyl sulfone, the JMPR Secretariat responded that though there was a weakly positive result in the Ames test, the absence of genotoxicity was supported by negative results in invivo studies.
- 76. The Committee agreed to advance all proposed draft MRLs to Step 5/8 and the subsequent revocation of the associated CXLs, as recommended by the 2016 JMPR.

TOLFENPYRAD (269)

77. The Committee agreed to forward the proposed draft MRLs for pecan and potato for adoption at Step 5/8 as recommended by the 2016 JMPR.

METRAFENONE (278)

78. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8 with the subsequent revocation of the associated CXLs as recommended by the 2016 JMPR.

ACETOCHLOR (280)

79. In response to the concern form arising from CCPR48 relating to the 2015 JMPR not recommending a maximum residue level for soya beans, the JMPR Secretariat reconfirmed the previous decision that the use of proportionality could not be applied because the treatment regimes in the trials differed from GAP by more than one parameter.

FLONICAMID (282)

- 80. The EU and Norway expressed a reservation on the advancement of the proposed draft MRLs for food commodities of plant origin because they had a different residue definition for enforcement.
- 81. The JMPR Secretariat informed the Committee that the 2016 JMPR had reassessed the data for cucurbits in response to a concern form submitted following CCPR48, and had confirmed its previous conclusion that the maximum residue level should be derived only from outdoor cucurbits trials.
- 82. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8, and the subsequent withdrawal of the associated draft MRLs as recommended by the 2016 JMPR.

FLUAZIFOP-P-BUTYL (283)

- 83. The EU and Norway expressed a reservation on the advancement of the proposed draft MRLs for cabbages, head; tomato; beans, except broad bean and soya bean (green pods and immature seeds); peas, shelled (succulent seeds); beans (dry); carrot; potato; swede; turnip, garden; sunflower seed; meat (from mammals other than marine mammals); mammalian fats (except milk fats); edible offal (mammalian); milks; poultry meat; poultry fats; poultry, edible offal of; eggs due to their acute exposure concerns and different policies in setting MRLs for muscle when considering fat soluble residues.
- 84. The Committee noted the reservation of Brazil on the advancement of the proposed draft MRL for beans and cabbage due to their acute intake concern.
- 85. The Committee agreed to a proposal from the USA and Australia to withdraw the draft MRLs for sweet potato and yam to address chronic intake concerns identified by the 2016 JMPR. The Committee then decided to advance all remaining draft MRLs for adoption at Step 5/8.
- 86. The Observer from NHF expressed its concern to the advancement of the proposed draft MRLs due to over potential environmental impact.

FLUPYRADIFURONE (285)

- 87. The Committee noted the reservation of the EU and Norway on the advancement of all proposed draft MRLs for food commodities due to their different residue definition for enforcement.
- 88. China, Norway and EU supported the JMPR conclusion that a dietary exposure concern could not be precluded for celery; leaf lettuce; spinach; and mustard greens. As the manufacture indicated no alternative GAP was available, the Committee agreed to withdraw the proposed draft MRLs for spinach; leaf lettuce; mustard green; and celery and to advance the other proposed draft MRLs to Step 5/8.
- 89. The Observer from NHF expressed its concern over the use of this compound due to bee toxicity.

ACIBENZOLAR-S-METHYL (288)

- 90. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRLs for brassica (Cole or cabbage) vegetables, head cabbages, flowerhead brassicas; brassica leafy vegetables; and fruiting vegetables, cucurbits (due to their acute dietary exposure concern for EU consumers) and for citrus fruits; and kiwi fruit (due to lack of metabolism studies reflecting soil treatment).
- 91. The JMPR Secretariat responded that a substantial amount of relevant information was provided that addressed soil treatment despite there being no soil metabolism study available.
- 92. The Committee agreed to advance all the proposed draft MRLs to Step 5/8.

IMAZETHAPYR (289)

- 93. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRLs for all food commodities because of their pending evaluation of import MRLs and on rape seed (trials not analyzed for all compounds of the residue definition for risk assessment).
- 94. The Committee agreed to advance all the proposed draft MRLs to Step 5/8.

ISOFETAMID (290)

95. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRLs for animal commodities due to their different residue definition for enforcement.

96. The Committee agreed to advance all the proposed draft MRLs to Step 5/8.

OXATHIAPIPROLIN (291)

- 97. The Committee noted the reservations expressed by the EU and Norway on the advancement of all the proposed draft MRLs. For plant commodities the reservation was due to the lack of information on concentrations of metabolites included in the residue definition for dietary risk assessment, in commodities from treated crops.
- 98. The JMPR Secretariat responded that these metabolites were predominantly found in commodities from rotational crops, and that they were no more toxic than the parent compound.
- 99. The Committee noted the reservations expressed by EU and Norway for commodities of animal origin the presentation of the assessment of animal products did not allow to verify the validity of the proposed MRLs.
- 100. The Delegation of EU commented that clear guidance was needed for active substances that lead to residues in rotational crops due to their persistence. The Committee noted that the OECD was developing such guidance.
- 101. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8 as recommended by the 2016 JMPR.

PENDIMETHALIN (292)

- 102. The Committee noted the reservations of the EU and Norway on the advancement of the proposed draft MRLs for brassica leafy vegetables, except kale; meat (from mammals other than marine mammals) and poultry meat, and welsh onion and spring onion.
- 103. The JMPR Secretariat responded that different assessment policies were applied with respect to leafy vegetables, except kale (extrapolation); animal commodities (setting MRLs for fat soluble residues in meat) and welsh onion and spring onion (minimum trial numbers).
- 104. The Committee agreed to advance all proposed draft MRLs for adoption at Step 5/8 as recommended by the 2016 JMPR.

PINOXADEN (293)

- 105. The EU and Norway expressed the reservations on the advancement of all the proposed draft MRLs for food commodities, due to their different residue definition for enforcement.
- 106. The Committee also noted the specific concerns from the EU and Norway on the advancement of the proposed MRLs for wheat and barley in the absence of feeding studies supporting the establishment of animal commodity MRLs.
- 107. The Committee agreed to advance all the proposed draft MRLs for adoption at Step 5/8, as recommended by the 2016 JMPR.

SPIROMESIFEN (294)

- 108. The Committee noted that reservation of the EU and Norway on the advancement of all the proposed draft MRLs for food commodities due to their different residue definition for enforcement.
- 109. The Committee decided to advance all the proposed draft MRLs for adoption at Step 5/8, as recommended by the 2016 JMPR.

Conclusion

- 110. The Committee:
 - (a) Agreed to forward to CAC40:
 - i. Draft MRLs for adoption at Step 8 (Appendix II)
 - ii. Proposed draft MRLs for adoption at Step 5/8 (Appendix III)
 - iii. Codex MRLs (CXLs) for revocation (Appendix IV)
 - (b) Noted that:
 - Draft and proposed draft MRLs retained at Steps 7 and 4 are attached as Appendices V and VI
 - ii. Draft and proposed draft MRLs withdrawn are attached as Appendix VII

DRAFT AND PROPOSED DRAFT REVISION OF THE *CLASSIFICATION OF FOOD AND FEED* AT STEPS 7 AND 4: VEGETABLE COMMODITY GROUPS (Agenda Item 7a)¹⁰

111. The United States of America, as Chair of the EWG on the revision of the Classification, explained that the EWG had compiled and reviewed all the vegetable commodity groups finalized by CCPR42-48 to ensure consistency in the terminology and code system and their location in Table 2 (examples of representative commodities). The Delegation further explained that CRD21 had been issued to address additional editorial corrections.

Discussion

Approach to the revision of the Classification

112. The Committee agreed with the following approach to the revision of the Classification: (i) to include a commodity only in one group or subgroup to avoid confusion of having two different CXLs for the same commodity; (ii) to include the same commodity with different plant parts in different groups to allow consideration of plant parts when describing a commodity; (iii) to include cross-referencing where commodities (without a code number) can be listed in a group, but with reference to its primary classification; (iv) to include the words "sub-group of" to the description of all subgroups to prevent misinterpretation between subgroups and individual commodities that share the same; and (v) to make consequential amendments to the revised fruit commodity group already adopted by CAC35 (2012) for consistency.

Impact of the revised vegetable commodity groups on the CXLs for vegetables

- 113. The EWG Chair recalled the approach agreed to by the Committee that following the revision of the Classification no change would be made to existing CXLs (as a result of some crops moving from one group to another group arising from the revision) until such a time JMPR would revise them following the procedures in place for the establishment of Codex schedules and priority list of pesticides.
- 114. The Committee agreed to incorporate the amendments to the existing CXLs arising from the revision of the vegetable commodity groups in the Codex Database for MRLs for Pesticides.

Conclusion

- 115. The Committee agreed to:
 - i. Forward the draft and proposed draft revised vegetable commodity groups (Type 02) of the Classification of Food and Feed (CAC/MISC 4-1989) to CAC40 for adoption at Step 8 and 5/8 (Appendix VIII, part A);
 - ii. Forward consequential amendments to the fruit commodity groups (Type 01) of the *Classification of Food and Feed* (CAC/MISC 4-1989) related to the inclusion of the words "in subgroup of" to the description of all subgroups to CAC40 for adoption (Appendix IX);
 - iii. Attach the amendments to existing CXLs arising from the revision of the vegetable commodity groups as a reference to the Codex Secretariat in the revision of the Codex Database (Appendix X).

DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED AT STEP 7: SELECTED COMMODITY GROUPS – GROUP 020 GRASSES OF CEREALS GRAINS (Agenda Item 7b)¹¹

- 116. The United States of America, as Chair of the EWG on the revision of the Classification, noted that the EWG had supported the inclusion of chia as a member of Group 020 (instead of the previously proposed Group 28 Spices) and the use of separate codes for commodities in Subgroup 020E Sweet Corns which remain as a separate subgroup. The Committee agreed with these recommendations.
- 117. The Committee considered the location of canarygrass and maize in Group 020 as follows:

Discussion

Location of canarygrass

118. The Committee agreed to relocate canarygrass from Subgroup 020D Maize, Grain Sorghum and Millet to Subgroup 020B Barley.

CX/PR 17/49/06; Comments of Canada, EU, Ghana, Kenya, Thailand, Uganda and AU (CRD07); Nigeria (CRD12); Japan (CRD13); Senegal (CRD14); Indonesia (CRD15); China (CRD16); Revised draft and proposed draft revision of the Classification of Food and Feed at Steps 7 and 4: Vegetable commodity groups, prepared by USA and the Netherlands (CRD21); Revised Classification of Food and Feed as agreed by CCPR49 (prepared by USA and the Netherlands) (CRD23)

CL 2017/19-PR (REV); Comments of Australia, Canada, Ecuador, EU, Kenya, Peru, USA and AU (CX/PR 17/49/07); Thailand (CRD07); Nigeria (CRD12); Japan (CRD13); Indonesia (CRD15); China (CRD16); Revised Classification of Food and Feed as agreed by CCPR49 (prepared by USA and the Netherlands) (CRD23)

Location of maize

The Committee considered a new proposal from Australia to establish a separate subgroup for maize. The 119. proposal would have a minimum impact on Table 3 (examples of representative commodities) and was in line with the agreement reached at CCPR47¹² that sweet corn would be included in a separate subgroup.

- The Committee noted general support for this proposal on the understanding that the new proposal clearly differentiate commodities harvested as immature (sweet corns) from those harvested as mature and dry (maize). In order to accommodate this relocation, grain sorghum should be selected as examples of representative commodity of the newly subgroup grain sorghum and millet as they produce the highest residue within this subgroup.
- The Committee therefore agreed to have separate subgroups for maize (new Subgroup 020E) and sweet corns (Subgroup 020F) and to include grain sorghum as an example of representative commodity of grain sorghum and millet (revised Subgroup 020D).

Inclusion of oat naked

122. The Committee noted a request to add oat naked (Avena nuda L.) in Subgroup 020A Wheat (including pseudocereals without husk) as this commodity was traded without husk. However, it decided to include oat naked in Subgroup 020B Barley (including pseudo-cereals with husk) noting that this commodity had similar residue behaviour and agricultural practices with other commodities of this Subgroup.

Conclusion

See Agenda Item 7c.

PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED AT STEP 4: SELECTED COMMODITY GROUPS - GROUP 021 GRASSES FOR SUGARS OR SYRUP PRODUCTION (Agenda Item 7c)¹³

The United States of America, as Chair of the EWG on the revision of the Classification, noted that the EWG had recommended to maintain Group 021 Grasses for sugars or syrup production as currently established and to create a new separate (i) type or (ii) group for tree sap producers under Type 04 "Nuts and Seeds" while renaming the type accordingly. An additional question was whether the "portion of the commodity to which the MRL applies (and which is analyzed)" should be for the "whole commodity".

Discussion

Structure of Group 21

124. The Committee agreed to maintain Group 021 as currently established.

Location of tree sap producers

125. The Committee agreed to (i) create a new Group 025 for tree sap producers since they did not belong to the grass family and (ii) to include this group in a renamed Type 04 "Nuts, Seeds and Saps" in view of the large difference in forms between saps and the other commodities included in the Type.

Portion of the commodity to which the MRL applies (and which is analyzed)

The Committee agreed that the portion of the commodity to which the MRL applies (and which is analyzed) was the whole commodity as traded i.e. "stalk" for sorghum sweet and "cane" for sugar cane. The reference to "stalk" in the descriptor of GS 0658 was therefore removed.

Conclusion

- 127. The Committee agreed to:
 - Forward the draft and proposed draft revised grass commodity groups (Type 03) namely Group 020 Grasses of cereal grains and Group 021 Grasses for sugar or syrup production of the Classification of Food and Feed (CAC/MISC 4-1989) to CAC40 for adoption at Step 8 and 5/8 (Appendix XI, part A) respectively.
 - Request the EWG on the Classification to look at the possible expansion and grouping of Group ii. 025 Tree Saps as well as the definition and the portion of the commodity to which the MRL applies and report back at the next session with a proposal for consideration (see Terms of Reference of the EWG, para. 141).

REP15/PR, para. 132

CL 2017/20-PR; Comments of Canada, Ecuador, EU, Kenya, Uganda, USA and AU (CX/PR 17/49/08); Thailand (CRD07); Nigeria (CRD12); Japan (CRD13); Indonesia (CRD15); Revised Classification of Food and Feed as agreed by CCPR49 (prepared by the USA and the Netherlands) (CRD23)

PROPOSED DRAFT REVISION OF THE *CLASSIFICATION OF FOOD AND FEED* AT STEP 4: SELECTED COMMODITY GROUPS – GROUP 024 SEEDS FOR BEVERAGES AND SWEETS (Agenda Item 7d) 14

128. The United States of America, as Chair of the EWG on the revision of the Classification, noted that the EWG could not further expand Group 024 as commodities proposed for inclusion in this Group did not fit the crop grouping criteria or were already allocated to other groups (see para. 112). Therefore, the EWG had recommended to maintain Group 024 as presently established. Another question was the location in the Classification of commodities that did not fit the criteria for crop grouping for inclusion in any group in the Classification such as water chesnut, foxnut and lotus seeds.

Discussion

Structure of Group 024

129. The Committee agreed to maintain Group 024 as currently established. Any further work on this Group would relate to the inclusion of additional commodities only. Agreement was also reached to include senna seeds.

Inclusion of commodities in the Classification that do not meet the criteria for crop grouping

130. The Committee agreed with the development of a system that provide codes within the Classification for commodities which do not meet the crop criteria grouping (e.g. water chestnut, foxnut, lotus seeds, etc.). The development of such system should be further developed by the EWG and submitted for consideration by the next session of CCPR. The Committee also acknowledged that it would be not possible to select representative commodities for such commodities.

Conclusion

131. The Committee agreed to forward the proposed draft revised Group 024 Seeds for beverages and sweets of the Classification of Food and Feed (CAC/MISC 4-1989) for adoption at Step 5 (Appendix XII).

PROPOSED DRAFT TABLES ON EXAMPLES OF SELECTION OF REPRESENTATIVE COMMODITIES (VEGETABLE 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 FOR COMMODITY GROUPS AT STEP 4 (Agenda Item 7e)¹⁵

132. The United States of America, as Chair of the EWG on the revision of the *Classification*, noted that the EWG had completed the revision of Table 2 and Table 3 on examples of representative commodities for Type 02 (vegetable commodity groups) and Type 03 (grass commodity groups).

Discussion

Table 2 – Representative commodities for vegetable commodity groups

General considerations on examples of representative commodities in Table 3

- 133. Australia was of the view that the representative crops could be significantly simplified to provide a smaller set of commodities that would be effective for use in group MRL establishment and that was more in line with current JMPR practice. Australia highlighted that the *Principles and Guidance on the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides to Commodity Groups* (CAC/GL 84-2012) was a guidance document only, and that, as stressed in the footnotes to the tables, countries were free to choose alternative representative crops on the basis of regional production and dietary consumption factors. Additionally, Australia noted that countries were free to propose to JMPR, and JMPR was free to select, representative crops for the recommendation of group MRLs on the basis of the GAP and the residue trial data available to the specific meeting.
- 134. Several delegations supported these comments and noted that the tables in CAC/GL 84-2012 provide only examples of representative commodities.

CL 2017/21-PR; Comments of Canada, Ecuador, EU, Kenya, Republic of Korea, USA and AU (CX/PR 17/49/09); Nigeria (CRD12); China (CRD16); Revised Classification of Food and Feed as agreed by CCPR49 (prepared by USA and the Netherlands) (CRD23)

CL 2017/22-PR; Comments of Australia, Canada, Chile, Ecuador, EU, Ghana, Kenya, Uganda, USA and AU (CX/PR 17/49/10); Thailand (CRD07); Nigeria (CRD12); Japan (CRD13); China (CRD16); Revised draft and proposed draft revision of the Classification of Foods and Feed at Steps 7 and 4: Vegetable commodity groups (prepared by USA and the Netherlands) (CRD21); Revised Classification of Food and Feed as agreed by CCPR49 (prepared by USA and the Netherlands) (CRD23)

Subgroup 010A - Broccoli / Cauliflower as examples of representative commodities for flowerhead brassicas

- 135. India requested for clarification of the words "Broccoli (<u>could be partly replaced by</u> Cauliflower)" in the example of representative commodity of Subgroup 010A and noted that sentence was unclear, and did not reflect the situation of these crops in the country as India was a major producer of cauliflower but with a minimal production of broccoli. The Delegation indicated that it would be more appropriate to refer to "broccoli and/or cauliflower" in line with the approach taken for the description of examples of representative commodities.
- 136. The Committee noted that broccoli had higher residues content than cauliflower. In addition, the footnote in the column "Examples of representative commodities" allowed for flexibility based on the local conditions related to volume of production and consumption patterns.
 - Group 011 (fruiting vegetables, cucurbits) Removal of watermelon as example of representative commodity
- 137. As residues in watermelons were usually lower than melons, the Committee agreed to remove watermelons as example of representative commodity in Group 011. Thailand noted that there were several varieties of watermelons both small and large sizes cultivated in their country, the residues of the small size varieties showing higher levels. Thailand had not objection with the removal of watermelons from Group 011 (in particular Subgroup 011B) on the understanding that Codex members had the right to select alternative commodity according to their data of residue, production and consumption patterns.
 - Group 012 (fruiting vegetables, other than cucurbits) Tomatoes as example of representative commodity in Subgroups 012A (tomatoes) and 012C (eggplant and eggplant-like commodities)
- 138. With regard to the inclusion of tomato in the example of representative commodity of Subgroup 012C, Eggplant and eggplant-like commodities, the Committee noted that the example was appropriate as residues of small tomatoes and eggplants were considered very similar.

Table 3

139. In addition to editorial changes to improve consistent presentation of the tables, the Committee amended Table 3 to reflect decisions related to canaryseed and maize and the inclusion of additional commodities.

Conclusion

- 140. The Committee agreed to:
 - i. Forward the proposed draft Table 2 on Examples of selection of representative commodities (vegetable groups) (Appendix VIII, part B) and Table 3 on Examples of selection of representative commodities (grass groups) to CAC40 for adoption at Step 5/8 (Appendix XI, part B) and inclusion in the Principles and guidance for the selection of representative commodities for the extrapolation of maximum residue limits for pesticides for commodity groups (CAC/GL 84-2012).
 - ii. Request the EWG on Classification to continue working on Table 4 (nuts, seeds and saps) and to report back at the next session with a proposal for consideration (see Terms of Reference of the EWG, para. 141).

Terms of Reference of the EWG on the revision of the Classification

- 141. The Committee agreed to re-establish the EWG chaired by USA and co-chaired by the Netherlands working in English only with the following Terms of Reference:
 - Continue work on Group 024 Seeds for beverages and sweets and the new Group 025 Sap producing trees and determine if these groups can be expanded to other commodities.
 - ii. Review the consistency of the nuts, seeds and saps groups, their codes and their location in Table 4 of the renamed Type 04 Nuts, Seed and Saps.
 - iii. Develop a system within the Classification to provide codes for commodities that do not meet the criteria for crop grouping.
 - iv. Consider new commodities for Type 05 Herbs and Spices.
 - v. Review the consistency of the herbs and spices groups, their codes and their location in Table 5 of Type 05 Herbs and Spices.
 - vi. Report back on how the CXLs in the database would be impacted by the revised grass commodity groups and subgroups; by the revised nuts, seeds and saps commodity groups and subgroups; and by the revised herbs and spices commodity groups and subgroups.
 - vii. Start considering the revision of Class C "Primary animal feed commodities".
- 142. The Committee noted the following:

• Group 011 Tree nuts and Group 023 Oilseeds had already been finalized by CCPR and put on hold (Step 7) awaiting the finalization of the revision of the newly renamed Type 04 Nuts, Seeds and Saps.

 Group 027 Herbs and Group 028 Spices had already been finalized by CCPR and put on hold (Step 7) awaiting finalization of the revision of Type 05 Herbs and Spices.

Therefore, finalization of these groups should only relate to compilation and review to ensure consistency in the terminology and code system and their location in the relevant tables for representative commodities including the allocation of some additional commodities as appropriate (e.g. Group 028 Spices).

143. The Committee further agreed to inform CCEXEC that the revision of Class C "Primary animal feed commodities" would be completed by CCPR52 (2020) and that at this stage it was not possible to indicate when work on the remaining three classes, i.e. Primary food commodities of animal origin (Class B); Processed food of plant origin (Class D); and Processed food of animal origin (Class E) could be completed.

DRAFT GUIDELINES ON PERFORMANCE CRITERIA FOR METHODS OF ANALYSIS FOR THE DETERMINATION OF PESTICIDE RESIDUES IN FOOD (Agenda Item 8)¹⁶

- 144. The United States of America, as Chair of the in-session WG, introduced CRD22 and summarized the key changes introduced in the document based on the written comments submitted at this session and the viewpoints of the participating Codex members and observers for consideration by the Committee.
- 145. The Committee agreed to consider the guidelines as revised in CRD22 and, besides the changes proposed by the WG, made a few other changes to improve the clarity and consistency of the text. The Committee further noted that the scope of the guidelines had been extended to cover "feed" as the provisions in the document could also apply to feed.

Conclusion

146. The Committee agreed to forward the draft renamed Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food and feed to CAC40 for adoption at Step 8.

DISCUSSION PAPER ON THE POSSIBLE REVISION OF THE INTERNATIONAL ESTIMATE OF SHORT-TERM INTAKE (IESTI) EQUATIONS (Agenda Item 9)¹⁷

- 147. The Netherlands, as Chair of the EWG / in-session WG on the review of the IESTI equations, introduced the item and recalled that the discussion paper had been prepared to address the concern of a number of countries that conducting the assessment using the current IESTI equations with specific parameters might result in short-term intake dietary exposure exceeding the ARfD even when the residue levels found were still in compliance with the MRLs. The Delegation noted that the IESTI equations were protective of public health and that the review should not lead to substantial changes in the level of conservatism.
- 148. The Delegation referred to the mandate of the EWG and the work accomplished in relation to the identification of the advantages and challenges that might arise from the possible revision of the current IESTI equations and the impact on risk management, risk communication, consumer protection and trade. The Delegation noted that the EWG could not fully accomplish its work because of the divergent views on the need to revise the IESTI equations.
- 149. The Delegation also referred to the outcome of the discussion of the in-session WG established by CCPR49 to determine the further steps in the discussion of the review of the IESTI equations. The Delegation noted that the in-session WG discussed revised mandates for both the CCPR/EWG and the FAO/WHO scientific advice based on the recommendations in paragraphs 28-42 of discussion paper (noting that there was no missing information but a mistake in the paragraphs numbering).

Discussion

Establishment of the CCPR/EWG

150. The Committee noted general support to continue the discussion on the review of the IESTI equations.

CL 2016/27 (REV); Comments of Albania, Australia, Canada, China, Colombia, Costa Rica, Cuba, Egypt, EU, Haiti, India, Mexico, New Zealand, Thailand, Uruguay, USA, and IAEA (CX/PR 17/49/11); Brazil, Kenya, Peru, Uganda and AU (CRD08); Senegal (CRD14); Indonesia (CRD15); China (CRD16); Revised draft Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food (prepared by USA) (CRD20); Revised draft Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food (prepared by in-session WG chaired by USA and co-chaired by China and India) (CRD22)

CX/PR 17/49/12; Comments of Chile, Ecuador, El Salvador, EU, Kenya, Peru, Uganda, AU and CropLife (CRD09); Japan (CRD13); Senegal (CRD14); China (CRD16); ALINA (CRD18); Report of the in-session WG on the review of

the IESTI equations chaired by Netherlands and co-chaired by Australia (CRD24)

151. The JMPR Secretariat noted that the periodic review of scientific methodologies was a normal process in particular when the approach was data-driven and needs the review of available information.

- 152. Delegations expressed the following views:
 - There is a need to provide more information on the history, background and use of the IESTI equations
 to better understand and justify the need for this review and to better input in the discussions in the
 EWG.
 - There is a need to complete the work of the EWG established by CCPR48 in particular on the potential impact of the revision of the parameters in the IESTI equations on consumer health protection and trade facilitation.
 - There is a need to assess the reliability and robustness of the parameters in the IESTI equations to improve and strengthen enforcement of the MRLs.
 - The discussion on the review of the IESTI equations should not lead on increased level of conservatism of the current IESTI equations.
 - Agreement on the revision of the IESTI equation is premature hence the new established EWG should further explore the issues at hand and present the findings for consideration by CCPR50.

Mandate of the CCPR/EWG

First bullet point

153. The Committee noted that it would be helpful to provide information on the history, background and use of the IESTI equations so that members of the EWG could better understand the issues at hand and had a more active and effective participation in the discussion. This would assist the EWG in the development of conclusions and recommendations on how to move forward for consideration by CCPR50.

Second bullet point

154. The Committee noted that the task related to the need to complete the work of the EWG established by CCPR48 and to provide illustrative examples on e.g. what pesticide / commodity combinations presented MRLs they might result in short-term dietary exposure exceeding the ARfD (as calculated with the IESTI equations).

Third bullet point (new)

155. The Committee noted that this task related to the issues identified in Table 3, Appendix 2 of CX/PR 17/49/12 as relevant to risk management (or a combination of risk management and risk assessment) that would be important to develop or gather information for input in the risk assessment process carried out by FAO and WHO.

Fourth bullet point

- 156. The Committee noted that a review of the parameters in the IESTI equations and benchmarking the outcome of the IESTI equations to a probabilistic distribution of actual exposures were the remit of risk assessment so it was not the responsibility of CCPR. These points were spelt out in the recommendations to the FAO/WHO scientific advice and reflect regular risk assessment practices of FAO/ WHO.
- 157. The Committee further noted that consideration of the outcome of the studies carried out by the FAO/WHO and other robust studies that become available were the remit of risk management so it was the responsibility of CCPR. The result of the risk assessment studies would be considered by CCPR in order to determine the level of consumer protection provided by the IESTI equations and whether there was a need to revise the equations.
- 158. Therefore, the Committee agreed not to include any reference to the above in the mandate of the EWG.

Recommendations to the FAO/WHO scientific advice

- 159. The Committee agreed with the recommendations to FAO/WHO.
- 160. The Committee highlighted the need to provide data in reply to the call for data on pesticide residue monitoring in order to ensure a robust and realistic estimate of the probability of exceedance of ARfDs in all regions (see paras. 8 and 11).

Conclusion

161. The Committee agreed to establish an EWG, chaired by the Netherlands and co-chaired by Australia and Uganda, working in English with the following Terms of Reference:

- i. To provide information on the history, background and use of the IESTI equations.
- ii. To review and provide illustrative comments on advantages and challenges that arise from the current IESTI equations and their impact on risk management, risk communication, consumer protection goals and trade.
- iii. To gather relevant information on bulking and blending, as well as other information or data as outlined in Table 3 Appendix 2 of CX/PR 17/49/12 in order to feed into the risk assessors work through the JMPR Secretariat.
- On the basis of the above considerations develop a discussion paper providing recommendations for consideration at CCPR 50.

The Committee noted that non-official translation of documents into Spanish would be made available to facilitate the participation of Spanish-speaking countries.

- 162. The Committee agree to request FAO/WHO:
 - i. To review the basis and the parameters of the IESTI equations;
 - ii. To benchmark the outcomes of IESTI equations to a probabilistic distribution of actual exposures; and
 - iii. To present the outcome to CCPR.
- 163. The Committee noted that interaction between risk managers (CCPR) and risk assessors (FAO/WHO, JMPR) would be done through the JMPR Secretariat. The Committee called upon an active participation of the JMPR Secretariat in the CCPR/EWG on the review of the IESTI equations to ensure proper focus and liaison between risk managers and risk assessors.

ESTABLISHMENT OF CODEX SCHEDULES AND PRIORITY LISTS OF PESTICIDES (Agenda Item 10a)18

- 164. Australia, as Chair of the EWG on Priorities, opened the discussion on Codex Schedules and Priorities and invited Canada to introduce the proposal for an extraordinary session of the JMPR in May 2019 to be funded by Canada.
- 165. Delegations indicated strong support for an extraordinary session of JMPR. The EWG Chair requested members and observers closely consider CRD02 and noted how a proposed Schedule would be generated for this extraordinary meeting. The Committee thanked Canada for providing support to the scientific advice to CCPR work.
- 166. The EWG Chair introduced the revised Schedules and Priority Lists of Pesticides (CRD02).
- 167. The Committee noted the decision taken at CCPR48 to utilize a date-stamp to signify when all scheduling criteria specified in the Risk Analysis Principles applying to CCPR (Codex Procedural Manual) were met. Accordingly nominations were now placed in order of receipt by member countries of all relevant data including product labels and evidence of national registrations from manufacturers, compound sponsors or nominators. A member country then forward those nominations to the Chair of the EWG Priorities. The nominations include upper case text for commodities where there was confirmation of a national registration.

2018 Schedule for JMPR evaluations

- 168. The EWG Chair provided the list of eight new compounds to be scheduled for JMPR evaluation plus two reserve compounds.
- 169. The EWG Chair advised the Committee that there were 20 confirmed new use and other evaluations listed in the proposed 2018 Schedule.
- 170. The proposed 2018 Schedule of Periodic Reviews was confirmed with six compounds. However, the JMPR acknowledged that with eight new and five plus one reserve old compounds for full evaluation, the workload may exceed available resources. Nevertheless, the JMPR would include all 16 compounds in the "data callin", which includes reserves.
- 171. The EWG Chair noted comments in response to CL 2016/12-PR which sought a reasonable balance of new and old compound evaluations. The Committee agreed that the 8:5 ratio would be maintained, i.e. should the need arise, replace an old compound with a reserve old compound and likewise for new compounds.

CL 2017/12-PR; CX/PR 17/49/13; Revised Schedules and Priority Lists of Pesticides (prepared by Australia) (CRD02); Proposal of Canada for an extraordinary meeting of JMPR (CRD03); Comments of Egypt, El Salvador, EU, Kenya and Thailand (CRD10); Senegal (CRD14); China (CRD16)

2019 Proposed Schedule for the Extraordinary Session of JMPR

172. The EWG Chair directed the Committee to CRD02 paragraphs 19-21 to indicate that the proposed Schedule for the Extraordinary Session of JMPR would draw on the nominations listed in the 2019 Priority List on new use and other evaluations. The EWG Chair informed the Committee that 15 nominations were already confirmed following the submission of product labels and evidence of a national registration for the evaluation of the JMPR extraordinary session in 2019.

173. The Committee invited members and observers to submit all relevant information supporting a nomination to the new uses and other evaluation in the Priority List.

Conclusion

See Agenda Item 10(b).

INFORMATION ON NATIONAL REGISTRATIONS OF PESTICIDES (BASED ON INFORMATION SUBMITTED IN REPLY TO CL 2017/18-PR)

DISCUSSION PAPER ON THE ESTABLISHEMENT OF A CODEX DATABASE OF NATIONAL REGISTRATIONS OF PESTICIDES (Agenda Item 10b)¹⁹

- 174. The EWG Chair introduced the item and noted the assistance of the co-chair from Germany for significant guidance in developing the national registration database proposal for compounds listed in Tables 2A and 2B and the format of the country-specific worksheets.
- 175. The EWG Chair provided some examples: carbosulfan, carbofuran and ethoxyquin to explain uses of the database. Further explanation was provided on the need for each member to take responsibility for the maintenance and update of respective country-specific worksheets. The Committee strongly supported the development of the national registration database.
- 176. The Codex Secretariat indicated that a web-based platform would be established in the Codex website to "house" the national registrations database which would allow each member to upload updates and revisions to respective country-specific worksheets. The Committee supported the Codex initiative.

Conclusion

- 177. The Committee agreed:
 - i. To forward the proposed Schedule of Pesticides for evaluation by the 2018 JMPR to CAC for approval (Appendix XIV, Part A).
 - ii. To re-convene the EWG on Priorities, chaired by Australia and co-chaired by Germany working in English. The EWG will be tasked with providing a report on the schedules and priority list for consideration and coordinating further work to develop the national registration database for compounds listed in Tables 2A and 2B at the next session of CCPR.
 - iii. That Australia and Germany would continue working together over the next twelve months with a circular letter to be issued seeking further input to the database. In addition, the CL will introduce further ideas on the management of the database and consider whether or not to broaden the scope of the database to include all compounds listed on the CCPR Pesticide List.

OTHER BUSINESS AND FUTURE WORK (Agenda Item 11)

178. The Committee noted that there were no other business to discuss.

DATE AND PLACE OF THE NEXT SESSION (Agenda Item 12)

179. The Committee was informed that its 50th 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.

CL 2017/18-PR; CX/PR 17/49/14; CX/PR 17/49/15; Comments of Egypt, EU, Ghana, Kenya, AU (CRD11); Senegal (CRD14); China (CRD16); ALINA (CRD18); Additional replies to CL 2017/18-PR on national registrations of pesticides (CRD19)

APPENDIX I

LIST OF PARTICIPANTS - LISTE DES PARTICIPANTS - LISTA DE PARTICIPANTES

CHAIRPERSON

Mr Xiongwu Qiao
Professor/Deputy Director General
Shanxi Academy of Agricultural Sciences
2 Changfeng Street Taiyuan Shanxi Province
Shanxi, China
Tel: +86 351 7581865

Email: ccpr_qiao@agri.gov.cn

VICE-CHAIR

Dr Guibiao Ye
Professor/Director
CCPR Secretariat Institute for the Control of Agrochemicals
Ministry of Agriculture
Room 904, Building NO.18, Maizidian Street, Chaoyang District,
Beijing, China
Tel: +86 010 59194302
Email: yeguibiao@agri.gov.cn

ANTIGUA AND BARBUDA -ANTIGUA-ET-BARBUDA -ANTIGUA Y BARBUDA

Mr Joel Matthew Agricultural Officer Extension Division

Ministry of Agriculture, Land, Fisheries and Barbuda

Affairs St. John's

Antigua and Barbuda

Tel: 1 268 720 5678 /1 268 462 106 Email: <u>joelmtthw@yahoo.com</u>

ARGENTINA - ARGENTINE

Mrs Gabriela Catalani Punto Focal Codex

DNRAI

Ministerio de Agroindustria Azopardo 1025, piso 11, of 1

Buenos Aires Argentina

Tel: 54 -11- 4363-6265/6290 Email: gcatal@magyp.gob.ar

Mr Daniel Mazzarella

SENASA – Servicio Nacional de Sanidad y Calidad

Agroalimentaria

Dirección Nacional De Agroquímicos, Productos

Farmacológicos Y Alimentos Avenida Paseo Colon 439 4º Piso

Buenos Aires Argentina

Tel: +5411- 4121-5335

Email: dmazzare@senasa.gob.ar

AUSTRALIA - AUSTRALIE

Mr Ian Reichstein

Director, National Residue Survey

Department of Agriculture and Water Resources

GPO Box 858 Canberra ACT Australia

Tel: +61 2 6272 5668

Email: <u>lan.Reichstein@agriculture.gov.au</u>

Mr Kevin Bodnaruk Consultant

Horticulture Innovation Australia

26/12 Phillip Mall West Pymble NSW

Australia

Tel: +61 2 9499 3833

Email: kevinakc@bigpond.net.au

Ms Karina Budd

Director, Residues Chemistry and Laboratory

Performance

Department of Agriculture and Water Resources

GPO Box 858 Canberra City Australia

Tel: +61262725795

Email: karina.budd@agriculture.gov.au

Dr Jason Lutze

A/g Executive Director, Scientific Assessment and

Chemical review Program

Australian Pesticides and Veterinary medicines

Authority PO Box 6182 Kingston Australia

Tel: +61 2 6210 4746

Email: jason.lutze@apvma.gov.au

Mr Gerard Mcmullen

Consultant

McMullen Consulting Pty Ltd

76 Bruce Street Coburg VIC Australia

Tel: +61 3 8300 0108

Email: gerardmcmullen@optusnet.com.au

AUSTRIA - AUTRICHE

Mr Ingo Grosssteiner

Austrian Agency for Health and Food Safety

Spargelfeldstrasse 191

Vienna Austria

Tel: +43 50555 33472

Email: ingo.grosssteiner@ages.at

BRAZIL - BRÉSIL - BRASIL

Mr Carlos Venancio

Head of Pesticide Registration Division

Ministry of Agriculture Livestock and Food Supply

Brasília Brazil

Tel: 55 61 3218-2445

Email: carlos.venancio@agricultura.gov.br

Mr Marcus Venicius Pires

General Management of Toxicology

Brazilian Health Surveillance Agency - ANVISA SIA (Setor de Indústria e Abastecimento)

Trecho 05 Área Especial 57, Lote 200

Brasília Brazil

Email: marcus.pires@anvisa.gov.br

CAMEROON - CAMEROUN - CAMERÚN

Mr Nya Edouard

Inspecteur phytosanitaire

Ministère de l'Agriculture et du Développement

Rural Yaoundé Cameroon

Tel: 237 696189973

Email: nyaedouard@yahoo.fr

Mrs Ingratia Marie Luz Kayitavu Kone Sim

Point de Contact Codex

Ministère des Mines, de l'Industrie et du

Développement Technologique

Yaoundé Cameroon

Tel: +237 677574283 Email: <u>kayitavu@yahoo.fr</u>

CANADA - CANADÁ

Ms Monique Thomas

Section Head

Pest Management Regulatory Agency

Health Canada

Sir Charles Tupper Building Address locator: 6605E

2720 Riverside Drive

Ottawa Canada

Tel: 613 736-3539

Email: monique.thomas@canada.ca

Ms Jennifer Ballantine Research Sites Manager Pest Management Centre

Agriculture and Agri-Food Canada Pest Management Centre 960 Carling Ave

Ottawa Canada

Tel: 613 759-7953

Email: jennifer.ballantine@agr.gc.ca

Mr Jason Flint

Director General, Policy, Communications and

Regulatory Affair Directorate

Pest Management Regulatory Agency

Health Canada 2720 Riverside Dr.

Ottawa Canada

Tel: 613 736-3660

Email: jason.flint@canada.ca

Mrs Louise Roberge

President

Tea and Herbal Association of Canada 13 Richmond Street west Suite 207 Toronto,

Ontario Toronto Canada

Tel: 416 510-8647

Email: louise.roberge@tea.ca

Ms Rebeka Tekle Acting Deputy Director

Technical Trade and Policy Division Agriculture and Agri-Food Canada

1305 Baseline Road

Ottawa Canada

Tel: 613 773-1759

Email: Rebeka.Tekle@agr.gc.ca

Dr Jian Wang

Head, Research Scientist

Calgary Laboratory, Research and Development

Canadian Food Inspection Agency

Agency 3650 36th Street NW Calgary, Alberta

Calgary Canada

Tel: 403 338-5273

Email: jian.wang@inspection.gc.ca

CHILE - CHILI

Ms Roxana Vera Muñoz

Coordinadora Unidad de Acuerdos Internacionales

Servicio Agrícola y Ganadero (SAG) División de Asuntos Internacionales

Ministerio de Agricultura Bulnes 140, piso 5.

Santiago Chile

Tel: 56 2 23451167

Email: roxana.vera@sag.gob.cl

Mr Eduardo Aylwin Herman

Asesor

Agencia Chilena para la Inocuidad y Calidad

Alimentaria, ACHIPIA Ministerio de Agricultura Nueva York 17, piso 4

Santiago Chile

Tel: +56 2 27979900

Email: eduardo.aylwin@achipia.gob.cl

Mrs Paulina Chávez Asesor Técnico

Departamento de Nutrición y Alimentos

Ministerio de Salud Monjitas 565, piso 10

Santiago Chile

Tel: +56 225740619 Email: <u>pchavez@minsal.cl</u>

Mrs Claudia Zamora Figueroa

Asesor Técnico

Servicio Agrícola y Ganadero (SAG) Departamento de Laboratorios y Estaciones

Cuarentenarias Ministerio de Agricultura

Ruta 68 n° 19100, Parcela SAG, Pudahuel

Santiago Chile

Tel: +56 223451844

Email: claudia.zamora@sag.gob.cl

CHINA - CHINE

Mrs Ying Ji

Professor/Chief Agronomist

Institute for the Control of Agrochemicals, MOA,

P.R.China

Building No. 22, Maizidian street, Chaoyang District,

Beijing, China Beijing China

Tel: +86 13910737120 Email: jiying@agri.gov.cn Mr Kit Hong Chan Senior Technician

Food Safety Centre Division of Risk Assessment Rua Nova de Areia Perta, no.52 Centro de Sericos

3 andar da RAEM MACAO

China

Tel: +86 15344854325

Email: kithongc@iacm.gov.mo

Ms Ho-yan Chung

Scientific Officer (Pesticide Residues)

Center for Food Safety, Food and Environmental Hygiene Department,HKSAR Government 43/F, Queensway Government Offices, 66

Queensway, Hong Kong

China

Tel: +86 852 28675606 Email: hychung@fehd.gov.hk

Ms Hao Ding

Assistant Researcher

China National Center for Food Safety Risk

Assessment

37 Guangqu Road, Building 2, Chaoyang, Beijing

Beijing China

Tel: +86 010 52165407 Email: dinghao@cfsa.net.cn

Ms Tao Ding FIRST SECRETARY

Ministry of Commerce of the People's Republic of

China

No.2 Dong Chang'an Avenue, Dong Cheng District,

Beijing China China

Tel: +86 010 65197380

Email: dingtao@mofcom.gov.cn

Ms Chin Man Ku Technical assistant

Division of Risk Assessment, Food Safety Centre,

I.A.C.M., Macao S.A.R.

Rua Nova de Areia Preta, N".52 Centro de Servicos

3 andar da Raem. Macao

Macao China

Tel: +86 853 62491850 Email: cmku@iacm.gov.mo

Mr Fugen Li Professor/Director

Institute for the Control of Agrochemicals, MOA,

P.R.China

Building No. 22, Maizidian street, Chaoyang District,

Beijing, China Beijing China

Tel: +86 010 59194739 Email: lifugen@agri.gov.cn Mr Haitao Liu Program Officer

Department of International Cooperation, Ministry of

Agriculture

Division of International Organization

No.11, Nongzhanguannanli, Chaoyang District,

Beijing China

Tel: +86 010 59192429 Email: <u>liu haitao@agri.gov.cn</u>

Prof Fengmao Liu

Professor

China Agricultural University

No.2 Yuanmingyuan West Road, Hai dian District, Beijing, China Agricultural University,

Beijing China

Tel: +86 18901175536 Email: <u>lfm2000@cau.edu.cn</u>

Mr Huanchen Liu Assistant Researcher

China National Center for Food Safety Risk

Assessment

37 Guangqu Road, Building 2, Chaoyang

Beijing China

Tel: +86 010 52165468

Email: liuhuanchen@cfsa.net.cn

Mr Zhenbin Mao

China Food And Drug Administration

26 Xuanwumen Xidajie,

Beijing, China

Tel: +86 010 88331073

Email: wangxiaofeng121@126.com

Prof Canping Pan

Professor

China Agricultural University

College of Science, China Agricultural University Yuanmingyuan Western Road 2, Haidian District

Beijing China

Tel: +86 13701327882 Email: <u>canpingp@cau.edu.cn</u>

Mr Chuanjiang Tao Professor/ Director

Institute for the Control of Agrochemicals, MOA,

P.R.China

Building No. 22, Maizidian street, Chaoyang District,

Beijing China

Tel: +86 13910595002

Email: taochuanjiang@agri.gov.cn

Prof Songxue Wang

Researcher

Academy of State Administration of Grain No.11 Baiwangzhuang Street Xicheng District

Beijing China

Tel: +86 010 58523708 Email: wsx@chinagrain.org

Ms Guangyan Zhu Senior Technician

Institute for the Control of Agrochemicals, MOA,

P.R.China

Building No. 22, Maizidian street, Chaoyang District,

Beijing China

Tel: +86 010 5919 4105

Email: zhuguangyan@agri.gov.cn

COSTA RICA

Mr Guillermo Arrieta Quesada

Jefe de la Unidad de Control de Residuos de

Agroquímicos

Servicio Fitosanitario del Estado

San Jose Costa Rica

Tel: (506) 2549-3604 Email: <u>garrieta@sfe.go.cr</u>

CUBA

Dr Tomás Joaquín Gómez Bernia

Especialista del Departamento Nacional de Higiene

de los Alimentos y Nutrición

Higiene y Nutrición de los Alimentos

Ministerio de Salud Pública

Calle 23 y N Vedado. Plaza de la Revolución

La Habana Cuba

Tel: +5378300022

Email: tgomezb@infomed.sld.cu

DENMARK - DANEMARK - DINAMARCA

Mrs Bodil Hamborg Jensen

Senior Adviser

National Food Institute

Technical University of Denmark

Mørkhøj Bygade 19

Søborg Denmark

Tel: +45 35887468 Email: <u>bhje@food.dtu.dk</u>

ECUADOR - ÉQUATEUR

Ing Jakeline Fernanda Arias Mendez

Analista de vigilancia y control de contaminantes Agencia Ecuatoriana de Aseguramiento de la

Calidad del Agro - AGROCALIDAD

Ministerio de Agricultura, Ganadería, Acuacultura y

Pesca - MAGAP

Av. Eloy Alfaro N30-350 y Av. Amazonas, Edificio

MAGAP, Piso 9

Quito Ecuador

Tel: (593) 2 2567232 Ext. 159

Email: jakeline.arias@agrocalidad.gob.ec

ESTONIA - ESTONIE

Mrs Sille Vahter Chief specialist

Food Safety Department Ministry of Rural Affairs

Lai str 39/41 Tallinn Estonia

Tel: +3726256211

Email: sille.vahter@agri.ee

Mr Toomas Lepplaan Chief Specialist Plant Products Bureau Ministry of Rural Affairs

Lai str 39/41 Tallinn Estonia

Tel: (+372) 6256145

Email: toomas.lepplaan@agri.ee

EUROPEAN UNION - UNION EUROPÉENNE - UNIÓN EUROPEA

Mr Marco Castellina Administrator DG Sante D 2

European Commission Rue Froissart 101

Brussels Belgium

Tel: +32 229-87443

Email: marco.castellina@ec.europa.eu

Mr Christophe Didion Administrator

DG Sante

European Commission

F101 04/057 Brussels Belgium

Tel: +32 229-95427

Email: christophe.didion@ec.europa.eu

Ms Hermine Reich

European Food Safety Authority

Via Carlo Magno 1A

Parma Italy

Email: Hermine.REICH@efsa.europa.eu

Ms Veerle Vanheusden

Administrator

DG SANTE.DDG2.E.4.001 European Commission

F101 04/084 Brussels Belgium

Tel: +32 229-90612

Email: veerle.vanheusden@ec.europa.eu

FIJI - FIDJI

Mr Jainesh Anish Ram

Entomologist Biosecurity of Fiji 32 Namena Rd Nabua

Suva Fiii

Tel: 9957753

Email: jram@baf.com.fj

FINLAND - FINLANDE - FINLANDIA

Ms Tiia Mäkinen-töykkä Senior Inspector

Finnish Food Safety Authority Evira

Mustialankatu 3 FI-00790

Helsinki Finland

Email: tiia.makinen@evira.fi

FRANCE - FRANCIA

Mrs Florence Gerault

residue expert

Genera directorate for food ministry of agriculture SRAL 10 rue Le Notre 49044

Angers France

Tel: 0033241723234

Email: florence.gerault@agriculture.gouv.fr

Dr Xavier G Sarda

Head of Residues & Food Safety Unit

Direction d'Évaluation des Produits Réglementés

Anses

14 rue Pierre et Marie Curie

Maisons Alfort

France

Tel: 33 1 49 77 21 66 Email: <u>xavier.sarda@anses.fr</u>

GERMANY - ALLEMAGNE - ALEMANIA

Dr Karsten Hohgardt Director and Professor Plant Protection Products

Federal Office of Consumer Protection and Food

Safety

Messeweg 11 - 12 Braunschweig Germany

Tel: +49 531 299 3503

Email: karsten.hohgardt@bvl.bund.de

Mr Hans-dieter Jungblut

Head of Global Consumer Safety

Crop Protection BASF SE Speyerer Str. 2 Limburgerhof Germany

Tel: +49 621 60 27774

Email: hans-dieter-jungblut@basf.com

GHANA

Dr Paul Osei-fosu

Head

Food and Agriculture Ghana Standards Authority

P.O. Box Mb 245

Accra Ghana

Tel: +233 208 150469

Email: posei_fosu@yahoo.co.uk

GREECE - GRÈCE - GRECIA

Mr Emmanuel Stantzos

Head of Economic and Commercial Section in

Beijing

Minister for Economic and Commercial Affairs

Embassy of Greece in China

No. 19 Guang Hua Lu, Chao Yang District

Beijing China

Tel: +86 (0)10 8532 6718 Email: ecocom-beijing@mfa.gr

HONDURAS

Mr Juan Carlos Paguada

Jede del Departamento de Inocuidad

Agroalimentaria

Sub Dirección de Inocuidad Agroalimentaria Servicio Nacional de Sanidad e Inocuidad

Agroalimentaria

Colonia Loma Linda Sur, Tegucigalpa, M.D.C., Honduras Avinida La FAO, Boulevard Miraflores,

Edificio de SENASA

Tegucigalpa Honduras

Tel: 504-2232-6213

Email: jcpaguada@senasa-sag.gob.hn

INDIA - INDE

Dr Pranjib Chakrabarty

Assistant Director General (Plant Protection &

Biosafety)

Indian Council of Agricultural Research (ICAR) Krishi Bhawan, Dr Rajendra Prasad Road

New Delhi India

Tel: 91-9540029275 Email: adgpp.icar@nic.in Mr Puneet Gupta Technical Officer

Food Safety and Standards Authority of India FDA Bhawan Near Bal Bhavan Kotla Road

New Delhi India

Tel: 8285878875

Email: puneet88gupta@gmail.com

Dr Kamma Satyanarayana Murthy

Principal Scientist

ITC Limited

ITC Limited - ABD ILTD, Spices Office, Guntur -

522 004 (AP) Guntur India

Tel: 098663 74155

Email: k.satyamurthy@itc.in

Dr Krishan Kumar Sharma Network Coordinator

IARI

All India Network Project on Pesticide Residues

Indian Agricultural Research Institute

110 012 New Delhi India

Tel: 011-25846396

Email: kksaicrp@yahoo.co.in

Dr T.a. Usmani Joint Director

Department of Agriculture, Cooperation and

Farmers Welfare

CIPMC Lucknow India

Email: ipmup12@nic.in

INDONESIA - INDONÉSIE

Dr Asep Nugraha Ardiwinata

Head of Indonesian Agricultural Environment

Research Institute

Indonesian Agricultural Environment Research

Institute (IAERI) Ministry Of Agriculture

Jl. Raya Jakenan-Jaken-Jaken Km 05

Jakarta Indonesia

Tel: 0295-4749055

Email: asena020361@gmail.com

Ms Mia Mariani Agustina

Technical Officer

International Cooperation Bureau

Ministry of Agriculture

A Building 6th Floor, Jl. Harsono RM. No.3

Ragunan Jakarta Indonesia

Tel: +6221-7804350

Email: agustinamia81@gmail.com

Mrs Puspaning Buanawaty Laboratory Supervisor Ministry of Trade

Jl. Raya Bogor Km. 26. Ciracas

Jakarta Indonesia

Tel: 087882768670

Email: puspakoe@yahoo.com

Ms Farah Diba Technical Officer

International Cooperation Bureau

Ministry of Agriculture

A Building 6th Floor, Jl. Harsono RM. No.3

Ragunan JAKARTA Indonesia

Tel: +6221-7804350

Email: farahdibakemtan@gmail.com

Ms Yusmita Siti Hajar Farida

Quality Control

Directorate of Standardization and Quality Control

Ministry of Trade

Jl. Raya Bogor KM. 26 Ciracas

Jakarta Indonesia

Tel: +62 21 8710321/3 Email: shafa.mita@gmail.com

IRAN (ISLAMIC REPUBLIC OF) -IRAN (RÉPUBLIQUE ISLAMIQUE D') -IRÁN (REPÚBLICA ISLÁMICA DEL)

Mrs Roya Noorbakhsh

Expert

Institute of Standard & Industrial Research of Iran &

Secretary of CCPR in Iran

Faculty of food and agriculture- Research Standard

Institute

Email: roybakhsh@yahoo.com

Dr Mohammadkazem Ramezani Pesticide Residues Expert Pesticides Research Department

Iranian Research Institute of Plant Protection

(IRIPP), Ministry of Agriculture, Jihad

Tehran

Iran (Islamic Republic of)

Tel: Tel: +98-21-22403012-14, Ext. Email: kazem.ramezani@gmail.com

JAMAICA - JAMAÏQUE

Ms Francine Webb

Senior Plant Health/Food Safety Officer

Technology, Training and Technical Information

Division

Rural Agricultural Development Authority

Hope Gardens, Kingston 6 Jamaica

Tel: 876-977-1158 Email: webbf@rada.gov.jm

JAPAN - JAPON - JAPÓN

Mr Makoto Irie Deputy Director

Plant Products Safety Division, Food Safety and

Consumer Affairs Bureau

Ministry of Agriculture, Forestry and Fisheries

1-2-1, Kasumigaseki, Chiyoda-ku

Tokyo Japan

Tel: +81-3-3502-5969

Email: makoto_irie340@maff.go.jp

Ms Sayaka Ishikawa Technical Officer

Department of Environmental Health and Food

Safety

Ministry of Health, Labour and Welfare 1-2-2 Kasumigaseki, Chiyoda-ku

Tokyo Japan

Tel: +81-3-3595-2423 Email: codexj@mhlw.go.jp

Mr Yuta Ogawa Assistant Director

Department of Environmental Health and Food

Safety

Ministry of Health, Labour and Welfare 1-2-2 Kasumigaseki, Chiyoda-ku

Tokyo Japan

Tel: +81-3-3595-2423 Email: codexj@mhlw.go.jp

Ms Marie Ohara Technical Officer

Department of Environmental Health and Food

Safety

Ministry of Health, Labour and Welfare 1-2-2 Kasumigaseki, Chiyoda-ku

Tokyo Japan

Tel: +81-3-3595-2423 Email: codexj@mhlw.go.jp

Mr Yoshiyuki Takagishi Associate Director

Food Safety Policy Division, Food Safety and

Consumer Affairs Bureau

Ministry of Agriculture, Forestry and Fisheries

1-2-1, Kasumigaseki, Chiyoda-ku

Tokyo Japan

Tel: +81-3-3502-8731

Email: yoshiyuki_takagis500@maff.go.jp

Dr Takahiro Watanabe

Section Chief Division of Foods

National Institute of Health Sciences 1-18-1, Kamiyoga, Setagaya-ku

Tokyo Japan

Tel: +81-3-3700-1141 Email: tawata@nihs.go.jp

KENYA

Ms Lucy Muthoni Namu

Head, Quality Assurance & Laboratory

Accreditation

Kenya Plant Health Inspectorate Services

P.O.Box 49592,00100 600

Nairobi Kenya

Tel: +254-020 661800 Email: <u>Inamu@kephis.org</u>

Mr Ngaruiya Paul Njuguna

Manager Registration

Pest Control Products Board

Box Number 13794

Nairobi Kenya

Tel: +254 722894138

Email: paul.ngaruiya12@yahoo.com

Dr Henry Kibet Rotich

Director- Metrology and Testing Division Metrology and Testing Laboratory Kenya Bureau of Standards

P.O Box 54974

Nairobi Kenya

Tel: +2540206948000 Email: rotichh@kebs.org

Mr Njane Samuel Njoroge

Manager -Regulation and compliance

Compliance Tea Directorate P.O Box 20064 Nairobi

Nairob Kenya

Tel: +254-722200556

Email: Snjane@teaboard.or.ke

LUXEMBOURG - LUXEMBURGO

Mr Rol Reiland

Deputy Head of Mission

Embassy of the GRAND DUCHY OF

LUXEMBOURG in China

Unit 17, Tower B, Pacific Century Place 2A

Gongtibei Lu

Chaoyang District, Beijing

China

Tel: (+86-10) 8588 0900

Email: roland.reiland@mae.etat.lu

Mrs Anneleen Van Landeghem

Economic Counsellor

Embassy of the Grand Duchy of Luxembourg in

China

Unit 1701, Tower B, Pacific Century Place, 2A

Gongtibei Lu, P.R. China Chaoyang District, Beijing

China

Tel: (+86-10) 8588 0900

Email: anneleen.vanlandeghem@mae.etat.lu

MALAYSIA - MALAISIE - MALASIA

Mr Mohammad Nazrul Fahmi Abdul Rahim

Principal Assistant Director Pesticide Control Division Department of Agriculture

4th Floor, Wisma Tani Jalan Sultan Salahuddin

Kuala Lumpur Malaysia

Tel: +603-2030 1499

Email: nazsmie@yahoo.com

Ms Nurul Hazila Abdul Ghani

Assistant Director Pesticide Control Division Department of Agriculture

4th Floor, Wisma Tani Jalan Sultan Salahuddin

Kuala Lumpur Malaysia

Tel: +603 2030 1510 Email: hazila@doa.gov.my

Ms Norizah Halim Research Officer

Analytical & Quality Development Unit, Product Development & Advisory Services Division

Malaysian Palm Oil Board (MPOB)

No 6, Persiaran Institusi Bandar Baru Bangi Kajang

Selangor Malaysia

Tel: +603 8769 4972

Email: norizah@mpob.gov.my

MOROCCO - MAROC - MARRUECOS

Mr Abdelaziz El Hraiki Docteur vétérinaire

Agriculture

Institut Agronomique et Vétérinaire Hassan II

Morocco

Tel: 00 212 6 61 37 39 60 Email: <u>a.elhraiki@iav.ac.ma</u>

Mr Ahmed Jaafari

Chef de Service du Suivi et du Contrôle des intrants

Chimiques Agriculture

office National de Sécurité Sanitaire des Produits

Alimentaires(ONSSA)

Avenue Haj Ahmed Cherkaoui Agdal Rabat

Rabat Morocco

Tel: +212537681351,+212537676611 Email: <u>ahmed.jaafari@ONSSA.GOV.MA</u>

Mr Zouaoui Ahmed

chef de Service des Pesticides

Agriculture

Laboratoire Officiel d'Analyses et de Recherches

Chimiques(LOARC)

25 rue Nichakra Rahal Casablanca

Casablanca Morocco

Tel: +212522302007

Email: zouaouiloarc@yahoo.fr

Mr Aarar Mustapha

Délégué Agriculture

Etablissement Autonomme Contrôle et de Coordination des Exportations(EACCE) N°72; Rue Mohamed Smiha, Casablanca

Casablanca Morocco

Tel: +212 5 22 30 51 04 Email: <u>aarar@eacce.org.ma</u>

Mrs Asmaa Ouagari

Association des Professionnels du The au Maroc

Rabat Morocco

Tel: +212608800080

Email: asmaa.ouagari@mathe.ma

NETHERLANDS - PAYS-BAS - PAÍSES BAJOS

Mr Martijn Martena Policy Officer

Department of Nutrition, Health Protection and

Prevention

Ministry of Health, Welfare and Sport

P.O. Box 20350 The Hague

Tel: +31 70 340 5463

Email: mj.martena@minvws.nl

Ms Bernadette Ossendorp Head Dept. Food Safety

Centre for Nutrition, Prevention and Healthy

Services RIVM PO Box 1 Bilthoven Netherlands

Tel: +31 30 274 3970

Email: <u>bernadette.ossendorp@rivm.nl</u>

Ms Dorin Poelmans Officer Plant Health

Dutch Food and Consumer Product Safety Authority

PO BOX 9102 Wageningen Netherlands

Tel: +31 88 2232121

Email: D.A.M.POELMANS@NVWA.NL

NEW ZEALAND - NOUVELLE-ZÉLANDE - NUEVA ZELANDIA

Mr Warren Hughes Principal Adviser

Ministry for Primary Industries

25 The Terrace Wellington New Zealand

Email: warren.hughes@mpi.govt.nz

Ms Rebecca May Fisher Regulatory Adviser-Food Safety Market Access Solutionz Ltd

New Zealand

Email: Rebecca@solutionz.co.nz

Mr Dave Lunn Principal Adviser

Ministry for Primary Industries

25 The Terrace Wellington New Zealand

Email: dave.lunn@mpi.govt.nz

NIGERIA - NIGÉRIA

Mr Boniface Chibueze Oguobi

ACRO

Chemical Evaluation and Research

National Agency for Food and Drug Administration

and Control

Plot 1A, Isolo Industrial Estate, Apapa Oshodi

Expressway Lagos Nigeria

Tel: +2348037728394

Email: pat bon2000@yahoo.com

Dr Bukar Ali Usman

Director

National Agency for Food and Drug Administration

and Control

Plot 1A Isolo Industrial Estate Oshodi Apapa

Express Way Lagos Nigeria

Tel: +2348035651540

Email: <u>bukar.usman@nafdac.gov.ng</u>

NORWAY - NORVÈGE - NORUEGA

Mrs Ingunn Haarstad Gudmundsdottir

Senior Adviser

Norwegian Food Safety Authority

P.O Box 383 Brumunddal Norway

Tel: + 47 41429212

Email:

Ingunn.Haarstad.Gudmundsdottir@mattilsynet.no

PERU - PÉROU - PERÚ

Mr Ethel Humberto Reyes Cervantes

Especialista de la Sub Dirección de Inocuidad

Agroalimentaria

Dirección de Insumos Agropecuarios e Inocuidad Agroalimentaria del Servicio Nacional de Sanidad

Agr SENASA

Av. La Molina N.º 1915 - La Molina

Lima Peru

Tel: +51990149050

Email: ereyesc@senasa.gob.pe

POLAND - POLOGNE - POLONIA

Ms Blanka Golebiowska

Counsellor, Representative of the Ministry of

Agriculture and Rural Development

Agricultural Affairs Unit

Embassy of the Republic of Poland in Beijing 1, Ritan Rd. Beijing, China. Post Code: 100600

Beijing China

Tel: 86-10-65321235 ext. 133

Email: blanka.golebiowska@msz.gov.pl

Ms Magdalena Gorzycka

I Secretary

Agricultural Affairs Unit

Embassy of the Republic of Poland in Beijing

1 Ritan Lu, Jianguamenwai

Beijing China

Email: magdalena.gorzycka@msz.gov.pl

REPUBLIC OF KOREA – RÉPUBLIQUE DE CORÉE – REPÚBLICA DE COREA

Dr Jin-sook Kim Deputy Director

Livestock Product Standard Division Ministry of Food and Drug Safety

Osong Health Technology Administration Complex,

187 Osongsaengmyeong2(i)-ro, Osong-eup

Chungcheongbuk-do Republic of Korea Tel: +82-43-719-3854 Email: jin1015@korea.kr

Dr Jung-ah Do Scientific Officer

Pesticide & Veterinary Drug Residue Division

Ministry of Food and Drug Safety

Osong Health Technology Administration Complex,

187 Osongsaengmyeong2(i)-ro, Osongeup

Chungcheongbuk-do Republic of Korea Tel: +82-43-719-4211 Email: jado@korea.kr

Dr Geun-hwan Gil Researcher

Rural Development Administration

Ministry of Agriculture, Food, and Rural Affairs 166 Nongsaengmyeong-ro, Iseo-myeon, Wanju-

gun, Jeollabuk-do Wanju-gun Republic of Korea Tel: +82-10-5436-0241 Email: ghgil@korea.kr Prof Moo-hyeog Im

Professor

Food Engineering Department

Daegu University

201, Daegudae-ro, Jilyang, Gyeongsan

Gyeongsangbuk-do Republic of Korea Tel: +82-53-850-6537

Email: imh0119@daegu.ac.kr

Ms Kyung-hee Jung Codex researcher Food Standard Division

Ministry of Food and Drug Safety

Osong Health Technology Administration Complex,

187 Osongsaengmyeong2(i)-ro, Osong-eup

Chungcheongbuk-do Republic of Korea Tel: +82-43-719-2437 Email: inukioo@korea.kr

Ms Hyo-young Kim

Researcher

National Agricultural Products Quality Management Ministry of Agriculture, Food, and Rural Affairs 141, Yongjeon-ro, Gimcheon-si, Gyeongsangbuk-

do

Gimcheon-si Republic of Korea Tel: 82-54-429-7771 Email: hyo02@korea.kr

Dr Chan-hyeok Kwon Scientific Officer

Livestock Product Standard Division Ministry of Food and Drug Safety

Osong Health Technology Administration Complex,

187 Osongsaengmyeong2(i)-ro, Osong-eup

Chungcheongbuk-do Republic of Korea Tel: +82-43-719-3865 Email: chkwon@korea.kr

Prof Mi-gyung Lee

Professor

Andong National University #1375 Gyeongdong-ro, Andong-si, Gyeongsangbuk-do,36729,

Republic of Korea Tel: +82-54-820-6011

Email: leemig@andong.ac.kr

Mr Bong-hyun Nam

Food & Drug Safety Attache

Embassy of the Republic of Korea(China)
No. 20 Dong Fang Dong Lu, Chaoyang District

Beijing China

Tel: +86-10-8531-0848 Email: nahmbh@hanmail.net

RUSSIAN FEDERATION -FÉDÉRATION DE RUSSIE -FEDERACIÓN DE RUSIA

Prof Valerii Rakitski Actina Director

FBES "Federal Scientific Centre of Hygiene named

after F. F. Erisman" of Rospotrebnadzor

Semashko st. 2, Mytischi town,

Moscow Region Russian Federation Tel: +7-495-586-11-44 Email: gmasaltsev@mail.ru

SAUDI ARABIA - ARABIE SAOUDITE -ARABIA SAUDITA

Mr Ahmad Al Ghannam

Food Specialist Saudi Arabia

Email: AAGhannam@sfda.gov.sa

SENEGAL - SÉNÉGAL

Mr Papa Sam Gueye

Coordonnateur du Comite du Codex sur les

Résidus de Pesticides Ceres Locustox Km 15

Ministère de l'agriculture et de l'équipement Rural

Route De Rufisque

Dakar Sénégal

Tel: +221 563 11 63

Email: psamgueye@hotmail.com

Mr Nar Diene

Coordonnateur de Comite

Ministere Sante et Action Sociale

Centre Anti-Poison

Fann Dakar Sénégal

Tel: +221 77649 61 56 Email: snardiene@yahoo.fr

Prof Mamadou Fall Enseignant chercheur

Ministere Sante et Action Sociale

Centre Anti-Poison

Fann Dakar Sénégal

Email: madoufal@gmail.com

Mrs Mame Diarra Faye Leye

Point de Contact du Codex Alimentarius

Centre Anti Poison

Ministère de la Santé et de l'Action sociale Hôpital de Fann - Avenue Cheikh Anta Diop

Dakar Sénégal

Tel: +221 77 520 09 15

Email: mamediarrafaye@yahoo.fr

SINGAPORE - SINGAPOUR - SINGAPUR

Dr Yuansheng Wu Deputy Director

Pesticide Residues Section, VPHL Chemistry

Department, Laboratories Group

Agri-Food & Veterinary Authority of Singapore

10 Perahu Road Singapore 718837

Singapore

Tel: +65 67952837

Email: WU Yuan Sheng@ava.gov.sg

Mr Poh Leong Lim Principal Scientist

VPHL Chemistry Department, Laboratories Group Agri-Food & Veterinary Authority of Singapore

10 Perahu Road Singapore 718837

Singapore

Tel: +65 67952818

Email: lim_poh_leong@ava.gov.sg

SOUTH AFRICA - AFRIQUE DU SUD -SUDÁFRICA

Ms Aluwani Madzivhandila Assistant Director: Food Control

Department of Health Private Bag X828

Pretoria South Africa

Tel: +27 12 395 9359

Email: Aluwani.Madzivhandila@health.gov.za

SPAIN - ESPAGNE - ESPAÑA

Mr Cesar Casado De Santiago

Jefe de Area

Subdirección General de Promoción de la

Seguridad Alimentaria

Agencia Española de Consumo, Seguridad

Alimentaria y Nutrición (AECOSAN)

C\ Alcala, 56 Madrid Spain

Email: ccasado@msssi.es

SUDAN - SOUDAN - SUDÁN

Mrs Nour Grashi

Pesticide Residue Specialist/ Head of Conformity

assessment section

Pesticide Residue Standards

Sudanese Standard & Metrology Organization

Aljamaa Street Khartoum Sudan

Tel: +249912367408

Email: nourssmo2009@hotmail.com

Ms Ahlam Ahmed

plant protection Directorate Pesticide Registration Sector Ministry of Agriculture & Forestry Plant protection Administration

Khartoum Sudan

Tel: +249912839500

Email: ahlamhassan424@yahoo.com

Mr Hassan Ali

Director of integrated center of Pest management

integrated center of Pest management Ministry of Agriculture & Forestry Agricultural Research Corporation

Khartoum Sudan

Tel: +249123016595

Email: abdelgadirhasan@gmail.com

Mrs Suaad Ibrahim
Pesticides Registration
Plant Protection Administration
Ministry Of Agriculture And Forestry
Plant Protection Administration

Khartoum Sudan

Tel: +249185331581

Email: suad.fageer@yahoo.com

Mr Ismail Omer

Director of Pesticide analysis lab.

Pesticide anlysis

Ministry of Agriculture & Forestry

Khartoum Sudan

Tel: +24922658852

Email: ismalsadd55@yahoo.com

SWITZERLAND - SUISSE - SUIZA

Dr Emanuel Hänggi Scientific Officer Food and Nutrition

Federal Food Safety and Veterinary Office FSVO

Bern

Switzerland

Email: Emanuel.Haenggi@blv.admin.ch

Mr Till Stéphane Goldmann Early Warning Group

Nestec Ltd.

Food Safety & Quality Competence Pillar Nestlé Research Center PO Box 44

Lausanne Switzerland

Email: Till.Goldmann@rdls.nestle.com

THAILAND - THAÏLANDE - TAILANDIA

Ms Surmsuk Salakpetch Deputy Director General Department of Agriculture

Ministry of Agriculture and Cooperatives 50 Phaholyothin road, Ladyao, Chatuchak

Bangkok Thailand

Tel: +66 2940 5418

Email: ssalakpetch@gmail.com

Ms Chitra Settaudom

Senior Advisor in Standards of Health Products

Food and Drug Administration Ministry of Public Health

88/24 Moo 4, Tiwanon Road, Muang

Nonthaburi Thailand

Tel: 662 590 7140

Email: schitra@fda.moph.go.th

Mr Boonthaweesak Boonthawee Agricultural Technical officer Department of Agriculture

Agricultural Production Science Research and

Development Division

50 Phaholyothin Rd., Chatuchak

Bangkok Thailand

Tel: +662 579 3577

Email: boonthaweesak@hotmail.com

Mr Charoen Kaowsuksai

Vice- Chairman of Food Processing Industry Club

The federation of Thai Industries

Queen Sirikit National Convention Center, Zone C, 4th Floor, 60 New Rachadapisek Rd., Klongtoey

Bangkok Thailand

Tel: 662-9763088

Email: charoen@cpram.co.th

Mrs Sudarat Kueylaw Senior Veterinary officer

Department of Livestock Development Ministry of Agriculture and Cooperatives

20/158 Moo.4 Rungsitnakornayok rd, Thunyaburee

Patumtanee

91 Moo 4, Tumbol Bangkadi, Amphur

Muang,Pathum Thani

Thailand

Tel: +6618663510

Email: wasankueylaw@yahoo.com

Mr Prachathipat Pongpinyo
Agricultural Technical officer
Department of Agriculture

Agricultural Production Science Research and

Development Division

Ministry of Agriculture and Cooperatives 50 Phaholyothin Rd., Chatuchak

Bangkok Thailand

Tel: +662 579 3577

Email: numkkn@hotmail.com

Ms Panpilad Saikaew

Standards Officer

National Bureau of Agricultural Commodity and

Food Standards

Ministry of Agriculture and Cooperatives

50 Phaholyothin road, Chatujak

Bangkok Thailand

Tel: +6625612277 ext 1427 Email: panpilad@acfs.go.th

Ms Wiphada Sirisomphobchai Senior medical scientist

Department of Livestock Development Ministry of Agriculture and Cooperatives

91 Moo 4, Tumbol Bangkadi, Amphur Muang,

Pathum Thani Thailand

Tel: + 66 2 967 9728 Email: wiphada.s@dld.go.th

TUNISIA - TUNISIE - TÚNEZ

Eng Hammadi Dekhil

DIRECTEUR

Agence Nationale de Controle Sanitaire et

Environnementale des Produits.

Ministère de la Santé. 2 rue Ibn Nadim Montplaisir

Tunis Tunisia

Tel: +21671901724

Email: hamadi.dekhil@rns.tn

TURKEY - TURQUIE - TURQUÍA

Mr Sinan Arslan Senior Expert

Food Establishments and Codex Department Ministry of Food Agriculture and Livestock

Eskişehir Yolu 9. Km Lodumlu

Ankara Turkey

Tel: +903122587753

Email: sinan.arslan@tarim.gov.tr

Mr Ilhami Sahin Head of Division

Food Establishments and Codex

Ministry of Food Agriculture and Livestock-General

Directorate of Food and Control Eskisehir yolu 9.Km Lodumlu

Ankara Turkey

Tel: +903122587757

Email: ilhami.sahin@tarim.gov.tr

UGANDA - OUGANDA

Mr Geoffrey Onen

Principal Government Analyst

Government Chemist and Analytical Laboratory

P.O. Box 2174 Kampala Uganda

Tel: +256-712-832871 Email: onengff@hotmail.com

Mr Phillip Musoke

Assistant Production Manager - Soroti Fruit Factory

Uganda Development Corporation

Floor 5, Soliz House, Plot 23, Lumumba Avenue,

P.O. Box 7042 Kampala Uganda

Tel: +256 704 938378

Email: musokephillip@gmail.com

UNITED REPUBLIC OF TANZANIA -RÉPUBLIQUE-UNIE DE TANZANIE -REPÚBLICA UNIDA DE TANZANÍA

Dr Bakari Kaoneka

Chief Research Officer

Tropical Pesticides Research Institution Ministry of Agriculture Food Security and

Cooperatives P.O. Box 3024

Arusha

United Republic of Tanzania

Tel: +255 754476346

Email: bkaoneka2012@gmail.com

UNITED STATES OF AMERICA -ÉTATS-UNIS D'AMÉRIQUE -ESTADOSUNIDOS DE AMÉRICA

Mr David J. Miller

Chief, Chemistry & Exposure Branch and Acting Chief, Toxicology & Epidemiology Branch Health Effects Division, Office of Pesticide

Programs

U.S. Environmental Protection Agency William J. Clinton Building 1200 Pennsylvania

Avenue, NW Washington, DC United States of America Tel: +1-703-305-5352 Email: Miller.Davidj@epa.gov

Dr Bill Barney Senior Coordinator

Food, Crop Grouping, and Biopesticides

Rutgers University

IR-4 Project Headquarters 500 College Road East

Suite 201 W Princeton, NJ

United States of America
Tel: +1-732-932-9575 ext. 4603

Email: barney@aesop.rutgers.edu

Ms Kimberly Berry

Director

Regulatory Data Services Bryant Christie, Inc. 500 Union Street Suite 701

Seattle, WA

United States of America Tel: +1-206-292-6340

Email: Kimberly.berry@bryantchristie.com

Mrs Julie Chao

Senior international Trade Specialist

Plant Division, Office of Agreements and Scientific

Foreign Agricultural Service, U.S. Department of **Aariculture**

1400 independence Avenue, SW South Building

Washington, DC

United States of America Tel: +1-202-378-1056

Email: Julie.chao@fas.usda.gov

Dr Michal Eldan

Vice President, Health and Environment Global Regulatory & Scientific Affairs

Luxembourg-Pamol, Inc.

3647 Willowbend Blvd. Suite 810

Houston, TX

United States of America Tel: +1.212.495.9717 Email: meldan@luxpam.com

Mr Raul Guerrero

Consultant

International Regulatory Strategies

793 Ontare Road

Santa Barbara, California United States of America Tel: +1805-898-1830

Email: guerrero_raul_j@yahoo.com

Ms Heidi Irrig

MRL Manager North America

Syngenta 410 Swing Road Greensboro, NC

United States of America Tel: +1-336-632-7243

Email: heidi.irrig@syngenta.com

Dr John Johnston Scientific Liaison

Food Safety and Inspection Service US Department of Agriculture

2150 Centre Ave Building D Room 2059

Fort Collins, CO United States of America Tel: +1- 202-365-7175

Email: John.Johnston@fsis.usda.gov

Dr Daniel Kunkel

Associate Director, Food and International

Programs

IR-4 Project Headquarters

Rutgers, The State University of NJ 500 College Road East Suite 201

W Princeton, NJ

United States of America Tel: +1.732.932.9575; ext: 4616

Email: kunkel@aesop.rutgers.edu

Dr Chia Pei (charlotte) Liang Chemist, Plant Products Branch

Center for Food Safety and Applied Nutrition

U.S. Food and Drug Administration

Division of Plant Products and Beverages Office of

Food Safety 5100 Paint Branch Parkway

College Park, MD United States of America Tel: +1-240-402-2785

Email: charlotte.liang@fda.hhs.gov

Ms Marie Maratos

International Issues Analyst

U.S. Codex Office, Food Safety & Inspection

Service

U. S. Department of Agriculture

1400 Independence Avenue, SW Room 4861

Washington, DC

United States of America Tel: +1-202-690-4795

Email: marie.maratos@fsis.usda.gov

Dr Ray Mcallister

Senior Director, Regulatory Policy

CropLife America 1156 15th St NW #400 Washington, DC United States of America Tel: +1-202-577-6657

Email: ray@croplife.us

Dr Allen Scarborough

North America Trade Flow Manager North America Regulatory Affairs

Bayer CropScience LP

P.O. Box 12014 2 T.W. Alexander Drive Research

Triangle Park, NC 27709 United States of America Tel: +1 919 549 2397

Email: allen.scarborough@bayer.com

VIET NAM

Mr Thanh Trung Phan

Head

Environmental Testing Department Quality Assurance and Testing center 3

49 Pasteur street, District 1

Ho Chi Minh Viet Nam Tel: 0912310812

Email: pt-trung@quatest3.com.vn

Mrs Tuong Van Tran

Official

Quality Assurance and Testing center 3

49 Pasteur street, District 1

Ho Chi Minh Viet Nam

Email: tt-van1@quatest3.com.vn

INTERGOVERNMENTAL ORGANIZATION ORGANISATION INTERGOUVERNEMENTALE ORGANIZACION INTERGUBERNAMENTAL

AFRICAN UNION (AU)

Dr Raphael Coly

Coordinator Standards & Trade Secretariat

Au-Ibar African Union

Kenindia Business Park

Nairobi Kenya

Tel: +254203674323

Email: raphael.coly@au-ibar.org

Mr John Oppong-otoo Food Safety Officer

Au-Ibar African Union

Kenindia Business Park Westlands Road

Nairobi Kenya

Tel: +254203674338

Email: john.oppong-otoo@au-ibar.org

NON GOVERNMENTAL ORGANIZATION ORGANISATION NON GOUVERNEMENTALE ORGANIZACIÓN NO GUBERNAMENTAL

THE LATINAMERICAN ASSOCIATION OF THE NATIONAL AGROCHEMICAL INDUSTRIES (ALINA)

Ms Amanda Francisco

Advisor

Agrocare Latinoamerica (ALINA) Rua Frei Caneca 1100 Apto 212

Sao Paulo Brazil

Email: amanda_afs1@hotmail.com

Prof Laura Beatriz Ruiz

Advisor

R&D Agroconsultora s.a.

AGROCARELATINOAMERICA (ALINA)

Necochea 1323 Martinez Argentina

Tel: 91164835689

Email: laura.ruiz@agrocarelatinoamerica.org

GLOBAL PULSE CONFEDERATION (CICILS)

Ms Lois Rossi Consultant

Global Pulse Confederation 1050 N. Taylor Street, Unit 512

Arlington

United States of America Email: rluisa1@aol.com

Mr Todd Scholz

Vice President of Research & Membership Services

US Dry Pea and Lentil Council

American Pulse Association/ USA Dry Pea & Lentil

Council 2780 W Pullman Road

Moscow

United States of America Tel: +12088833023

Email: tscholz@usapulses.org

CROPLIFE INTERNATIONAL (CROPLIFE)

Mr Philip Anthony Brindle

Senior Manager, Global MRLs & Import Tolerances

BASF

26 Davis Drive

Durham

United States of America Tel: 0019195472654

Email: philip.brindle@basf.com

Mr Peter Chalmers

APAC Head of Development and Registration

Adama

9 Temasek Boulevard #16-03A Suntec Tower Two

Singapore Singapore

Tel: 006592320950

Email: peter.chalmers@adama.com

Ms Cheryl Cleveland Consumer Safeety

BASF

26 Davis Drive

Research Triangle Park, NC United States of America Tel: 0019195930194

Email: cheryl.cleveland@basf.com

Ms Lydia Cox

Director, Regulatory Affairs

Nichino

4550 New Linden Hill Road

Wilmington, DE

United States of America Tel: 0013026369001 Email: lcox@nichino.net

Ms Andreia Da Silva Ferraz Federal Regulation Manager

ANDEF

Av Roque Petroni Junior 850 19 Andar Torre 8

Sao Paulo Brazil

Tel: +551130875031

Email: andreia@andef.com.br

Ms Marie Noelle Douaiher Regulatory Affairs Manager

Janssen PMP a division of Janssen Pharmaceutica

NV

Turnhoutseweg 30

Beerse Belgium

Tel: 0033616594652

Email: mdouaiher@its.jnj.com

Mr Craig Dunlop Regulatory Policy

Syngenta Crop Protection AG Schwarzwaldallee 215

Basel Switzerland

Tel: 0041613231250

Email: craig.dunlop@syngenta.com

Mr Takahiro Egawa

Registration & Regulatory Affairs Representative

DuPont Crop Protection

Sanno Park Tower 11-1 Nagata-cho 2-chome

Chiyoda-ku Tokyo Japan

Tel: 0081355218411

Email: takahiro.egawa@dupont.com

Mr Kazuyuki Fukushima

Regulatory Affairs Division Biosciences Sales &

Marketing

Ishihara Sangyo Kaisha, Ltd. 3-15, Edobori 1-chme, Nishi-ku

Osaka Japan

Tel: +81-6-6444-7154

Email: k-fukushima@iskweb.co.jp

Ms Amelia Gheissari

International Regulatory Affairs Manager

Monsanto

1300 Eye (I) Street, NW Suite 450 East

Washington DC

United States of America Tel: 0012023832847

Email: <u>amelia.elizabeth.jackson.</u>-.gheissari@monsanto.com

Mr Masaki Hiraki

Manager

"Asia Pacific Group Development & Registration

Department"

Mitsui Chemical Agro inc.

Nihonbashi Dia Building, 1-19-1, Nihonbashi Chuo-

ku Tokyo Japan

Tel: +81-3-5290-2869

Email: Masaki.Hiraki@mitsuichemicals.com

Ms Junko Horita

Research and Development Department Kumiai Chemical Industry Co., Ltd. 4-26, Ikenohata, 1-chome, Taitoh-ku

Tokyo Japan

Tel: 81-3-3822-5091

Email: j-horita@kumiai-chem.co.jp

Dr Peter Horne

Global Regulatory Affairs Manager

DuPont Crop Protection

Stine Haskell Research Center 1090 Elkton road

Newark, Delaware United States of America Tel: 0013023666228

Email: peter.horne-1@dupont.com

Mr Hideji Hosoda

Executive, Division Manager

Overseas Division Nihon Nohyaku CO.,LTD.

Kyobshi OM Bldg. 19-8, Kyobashi 1-Chome, Chuo-

ku Tokyo Japan

Tel: +81-(0)3-6361-1401

Email: hosoda-hideji@nichino.co.jp

Mr Kazuaki Iijima Associate Director Chemistry Division

The Institute of Environmental Toxicology

4321 Uchimoriya-machi, Joso-shi

Ibaraki Japan

Tel: +81-297-27-4516 Email: <u>iijima@iet.or.jp</u>

Mr Yuji Ikemoto

Assistant General Manager

Overseas Registration Group, Registration Department, Market Development Division

Nihon Nohyaku CO.,LTD.

Kyobshi OM Bldg. 19-8, Kyobashi 1-Chome, Chuo-

ku Tokyo Japan

Tel: +81-(0)3-6361-1411

Email: ikemoto-yuji2@nichino.co.jp

Mr Michael Kaethner Regulatory Policy Bayer CropScience

Geb 6100 A1.4 Alfred Nobel Str 50

Monheim Germany

Tel: 00492173387521

Email: michael.kaethner@bayer.com

Mr Yoshitaka Kawarai

Registration and Regulatory Affairs Department

Kyoyu Agri Co., Ltd.

Yamaman Bldg. 11F. 6-1 Nihonbashi-Koami-cho,

Chuo-ku Tokyo Japan

Tel: +81-3-5465-0708

Email: kawarai-yoshitaka@kyoyu-agri.co.jp

Mr Neil John Lister

Syngenta Jealott's Hill Bracknell United Kingdom Tel: 00441344414381

Email: neil.lister@syngenta.com

Mr Takashi Morimoto

R&RA department, AgroSolutions Division -

International

Sumitomo Chemical Co., Ltd. 27-1, Shinkawa 2-chome, Chuo-ku

Tokyo Japan

Tel: +81-3-5543-5692

Email: morimotot2@sc.sumitomo-chem.co.jp

Mr Makoto Nabeshima Technical Advise

Technical Product & Development Section,

Fertilizers and Agrochemicals Div.

National Federation of Cooperative Associations

1-3-1 Otemachi Chiyoda-ku

Tokyo Japan

Tel: 81-3-6271-8289

Email: nabeshima-makoto-q1@zennoh.or.jp

Mr Yoshihiro Nishimoto General Manager

R&RA department, AgroSolutions Division -

International

Sumitomo Chemical Co., Ltd. 27-1, Shinkawa 2-chome, Chuo-ku

Tokyo Japan

Tel: +81-3-5543-5720

Email: nishimotoy@sc.sumitomo-chem.co.jp

Mr Masaru Nokata

Advisor

Registration Department, Market Development

Division

Nihon Nohyaku CO.,LTD.

Kyobshi OM Bldg. 19-8, Kyobashi 1-Chome, Chuo-

ku TOKYO Japan

Tel: +81-(0)3-6361-1411

Email: nokata-masaru@nichino.co.jp

Ms Mi Kyoung Park Regulatory Affairs Syngenta Korea Ltd

CP RA 18th floor SC Bank Building Jongro 47

Jongro-Gu, South Korea Republic of Korea Tel: +821088074663

Email: mikyoung.park@syngenta.com

Mr Vasant Patil Regulatory Affairs Crop Protection CropLife Singapore

150 Cantonment Road, Block B #01-07

Singapore Tel: +6562211615

Email: vasant.patil@croplifeasia.org

Mr James William Pickering Registration Manager Nichino Europe 5 Pioneer Court Histon

Cambridge United Kingdom Tel: 00441509670743

Email: bpickering@nichino-europe.com

Ms Monika Richter

Global Food Safety and European MRL Manager

BASF

Speyerer Strasse 2 Limburgerhof Germany

Tel: 00496216027733

Email: monika.a.richter@basf.com

Ms Nanami Saita Regulatory

R&D North East Asia, Crop protection Regulatory

Syngenta Japan KK

21F, Office Tower X, 1-8-10, Harumi, Chuo-ku

Tokyo Japan

Tel: +81362213839

Email: nanami.saita@syngenta.com

Mr Naoto Sakiyama

Regulatory Affairs Division Biosciences Sales &

Marketing

Ishihara Sangyo Kaisha, Ltd. 3-1, Nishi-Shibukawa 2-chome

Kusatsu, Shiga

Japan

Tel: +81-77-562-4122

Email: n-sakiyama@iskweb.co.jp

Mr Takeshi Shibuya

Manager

REGULATORY AFFAIRS

SDS Biotech K.K.

1-1-5, HIGASHI-NIHOMBASHI, CHUO-KU

Tokyo Japan

Tel: +81-3-5825-5516

Email: takeshi shibuya@sdsbio.co.jp

Mr Jun Tanaka Manager

Regulatory Affairs Dept. Nippon Soda Co.,Ltd

2-1, Ohtemachi 2-chome, Chiyoda-ku

Tokyo Japan

Tel: +81-80-5965-4011

Email: j.tanaka@nippon-soda.co.jp

Mr Toshitomo Tanaka Chief Manager

"Sales Department, Asia Overseas Division"

Nihon Nohyaku CO.,LTD.

Kyobshi OM Bldg. 19-8, Kyobashi 1-Chome, Chuo-

ku Tokyo Japan

Tel: +81-(0)3-6361-1424

Email: tanaka-toshitomo@nichino.co.jp

Ms Carmen Tiu De Mino Global Residue & MRL Leader

Dow AgroSciencs LLC 9330 Zionsville Road

Indianapolis

United States of America Tel: +0013173724215 Email: tcarmen@dow.com

Mr Omura Tomohiro

HOKKO CHEMICAL INDUSTRY CO.,LTD. HOKKO CHEMICAL INDUSTRY CO.,LTD. 1-5-4 Nihonbashi Honcho, Chuo-Ku

Tokyo Japan

Tel: +81-3-3279-5831

Email: omura-t@hokkochem.co.jp

Mr Shimpei Tsushima

Manager

Regulatory Affairs Dept. Nippon Soda Co.,Ltd

2-1, Ohtemachi 2-chome, Chiyoda-ku

Tokyo Japan

Tel: +81-80-5969-3622

Email: s.tushima@nippon-soda.co.jp

Mr Hiroo Wakimori

Chemistry Technical Lead, Asia Chemical Regulatory Affairs Monsanto Japan Limited

Kyobashi Souseikan 6F, 2-5-18 Kyobashi, Chuo-ku

Tokyo Japan

Tel: +81 3 6264-4856

Email: hiroo.wakimori@monsanto.com

Ms Han Yan Manager

Regulatory Affairs Dept.

Nippon Soda Trading (Shanghai) Co.,Ltd RM.2318,Ruijing Building,205,Maoming South

Road Shanghai China

Tel: 021-64731277, 13701959545 Email: yanhan@nipponsoda-sh.com

Mr Tokunori Yokota General Manager Regulatory Affairs

Japan Crop Protection Association 2-3-6 Kayaba-cho Nihonbashi Chuoku

Tokyo Japan

Tel: +81-3-5649-7191 Email: <u>yokota@jcpa.or.jp</u>

Ms Sun Kyoung Yoon Regulatory Affairs Crop Protection Monsanto Singapore

151 Lorong Chuan, #06-08 New Tech Park

Singapore

Tel: +6564885670

Email: sun.kyoung.yoon@monsanto.com

GRAIN AND FEED TRADE ASSOCIATION (GAFTA)

Mr Alan($\square\square$) Ding(\top) Chief Representative

The Grain and Feed Trade Association Beijing

Office

1-1-1607 LEADING INTERNATIONAL CENTRE NO.1 GUANG QU MEN NAN XIAO JIE, 100061,

BEIJING, CHINA

BEIJING China

Tel: +86-13910017217 Email: gafta@263.net

INTERNATIONAL COUNCIL OF BEVERAGES ASSOCIATIONS (ICBA)

Dr Ronald Williams, Jr Advisor to ICBA

International Council of Beverages Associations 1275 Pennsylvania Avenue NW, Suite 1100

Washington, D.C. United States of America Tel: + 1 202-463-6739

Email: ronaldwilliams@coca-cola.com

INTERNATIONAL FRUIT AND VEGETABLE JUICE ASSOCIATION (IFU)

Dr David Hammond

IFU (Int. Fruit & Veg Juice Association)

23, Boulevard des Capucines

Paris France

Email: <u>Davidfruitjuice@aol.com</u>

INTERNATIONAL NUT AND DRIED FRUIT COUNCIL FOUNDATION (INC)

Ms Gabriele Ludwig

Scientific and Government Affairs Committee International Nut & Dried Fruit Council (INC)

United States of America

Email: gludwig@almondboard.com

INTERNATIONAL SOCIETY OF CITRICULTURE (ISC)

Mr James Cranney Representative for ISC

International Society of Citriculture

c/o California Citrus Quality Council 853 Lincoln

Way, Suite 206 Auburn, CA 95603

Auburn

United States of America Tel: 5308851894

Email: jcranney@ccqc.org

NATIONAL HEALTH FEDERATION (NHF)

Mr Scott Tips

President & General Counsel - CA

National Health Federation

PO Box 688 Monrovia

United States of America

Tel: 6263572181

Email: scott@rivieramail.com

Ms Katherine Carroll Executive Director

California

National Health Federation

PO Box 688 Monrovia

United States of America Tel: 16263572181

Email: katacarroll@gmail.com

INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)

Dr Zhihua Ye

Section Head, Food and Environmental Protection Section, Joint FAO/IAEA Division of Nuclear

Techniques in Food and Agriculture

Department of Nuclear Sciences and Applications

International Atomic Energy Agency Vienna International Centre P. O. Box 100

Vienna Austria

Tel: +43 (1) 2600-21638 Email: Z.Ye@iaea.org

FAO

Ms Yongzhen Yang FAO JMPR Secretary

Food and Agriculture Organization of the UN

Viale delle Terme di Caracalla

Rome Italy

Tel: +39 06 57054246

Email: Yongzhen.Yang@fao.org

WHO

Dr Philippe Jean Verger

Scientist

Risk Assessment and Management World Health

Organization (WHO) 20, avenue Appia Geneva 27 Switzerland

Tel: +41 22 791 3053 Email: <u>vergerp@who.int</u>

HOST SECRETARIAT

Ms Lifang Duan Senior Agronomist

CCPR Secretariat Institute for the Control of

Agrochemicals Ministry of Agriculture

NO.18 Maizidian Street, Chaoyang District Beijing

China Beijing China

Tel: +86 13911379536 Email: duanlifang@agri.gov.cn

Dr Fengzu Zhang

CCPR Secretariat Institute for the Control of

Agrochemicals
Ministry of Agriculture

NO.18 Maizidian Street, Chaoyang District

Beijing China

Tel: +86 010 5919 4254

Email: zhangfengzu@agri.gov.cn

Ms Meng Fu

CCPR Secretariat Institute for the Control of

Agrochemicals
Ministry of Agriculture

NO.18 Maizidian Street, Chaoyang District

Beijing China

Tel: +86 010 5919 4255 Email: ccpr@agri.gov.cn

Dr Longfei Yuan

State Key Laboratory of Integrated Management of

Pest Insects and Rodents

Institute of Zoology, Chinese Academy of Sciences

1 Beichen West Road, Chaoyang District

Beijing China

Tel: +86 010 64807261 Email: yuanlongfei@ioz.ac.cn Mr Ercheng Zhao

Beijing Academy of Agriculture and Forestry

Science

NO.9 Shuguang Huayuan Middle Road Haidian

District Beijing China

Tel: +86 010 51503438 Email: <u>eczhao@126.com</u>

Ms Jun Xu Professor

Institute of Plant Protection, Chinese Academy of

Agricultural Sciences

No.2 West Yuan Ming Yuan Road 100193

Beijing China

Tel: +86 010 62815938

Email: xujun1977927@163.com

Ms Liying Zhang

Institute for the Control of Agrochemicals

Ministry of Agriculture

Beijing China

Tel: +86 010 59194062

Email: zhangliying@agri.gov.cn

Ms Junhua Song

Institute for the Control of Agrochemicals

Ministry of Agriculture

Beijing China

Tel: +86 010 59194057 Email: junesong@agri.gov.cn

Ms Ran Liu

Institute for the Control of Agrochemicals

Ministry of Agriculture

Beijing China

Tel: +86 010 59194130 Email: <u>liuran@agri.gov.cn</u>

Dr Mingcheng Guo

Institute for the Control of Agrochemicals

Ministry of Agriculture

NO.22 Maizidian Street, Chaoyang District

Beijing China

Tel: +86 010 5919 5076 Email: guomc90@163.com

CODEX SECRETARIAT

Mr Tom Heilandt

Secretary, Codex Alimentarius

Joint FAOWHO Food Standards Programme Food and Agriculture Organization of the UN

Viale delle Terme di Caracalla

Rome Italy

Tel: +39 06 5705 4384 Email: tom.heilandt@fao.org

Ms Annamaria Bruno

Senior Food Standards Officer

Joint FAO/WHO Food Standards Programme Food and Agriculture Organization of the UN

Viale delle Terme di Caracalla

Rome Italy

Tel: 39 06570 56254

Email: annamaria.bruno@fao.org

Ms Gracia Brisco

Food Standards Officer

Joint FAO/WHO Food Standards Programme Food and Agriculture Organization of the UN

Viale delle Terme di Caracalla

Rome Italy

Tel: 39 06 570 52700 Email: gracia.brisco@fao.org

APPENDIX II

DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(For adoption at Step 8)

	<u>Commodity</u>	MRL (mg/kg)	<u>Step</u>	<u>Note</u>
90	Chlorpyrifos-Methyl				
	GC 0640 Barley	3	Po	8	
	GC 0654 Wheat	3	Ро	8	
	CM 0654 Wheat bran, Unprocessed	6	PoP	8	
	CF 1210 Wheat germ	5	PoP	8	

APPENDIX III

PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (For adoption at Step 5/8)

	Commod	lity MR	L (mg/kg)	,	<u>Step</u>	Note
135	Deltamet	hrin				
	SO 0495	Rape seed	0.2		5/8	
147	Methopre	ene				
	SO 0089	Oilseed, except peanut	4	Po	5/8	
173	Buprofez	zin				
	FI 0326	Avocado	0.1		5/8	
	HH 0722	Basil	1.5		5/8	
	VD 0541	Soya bean (dry)	0.01 (*)		5/8	
182	Pencona		()			
	FP 0226	Apple	0.1		5/8	
		Artichoke, Globe	0.06		5/8	
		Cucumber	0.06		5/8	
		Currant, Black	2		5/8	
	DF 0269	Dried grapes (=currants, raisins and sultanas)	1.5		5/8	
	MO 0105	Edible offal (mammalian)	0.05 (*)		5/8	
		Egg plant	0.09		5/8	
	PE 0112	**:	0.05 (*)		5/8	
		Gherkin	0.06		5/8	
	FB 0269	Grapes	0.4		5/8	
		Mammalian fats (except milk fats)	0.05 (*)		5/8	
		Meat (from mammals other than marine mammals)	0.05 (*)		5/8	
	VC 0046	Melons, except watermelon	0.15		5/8	
	ML 0106	Milks	0.01 (*)		5/8	
	FS 2001	Peaches (including Nectarine and Apricots) (includes all commodities in this subgroup)	0.08		5/8	
	FP 0230	Pear	0.1		5/8	
	VO 0445	Peppers, Sweet (including pimento or pimiento)	0.2		5/8	
	PO 0111	Poultry, Edible offal of	0.05 (*)		5/8	
	PM 0110	Poultry meat	0.05 (*)		5/8	
	VC 0431	Squash, summer	0.06		5/8	
	FB 0275	Strawberry	0.5		5/8	
	VO 0448	Tomato	0.09		5/8	
190	Tefluben	zuron				
	FP 0226	Apple	0.5		5/8	
	VB 0404	Cauliflower	0.01 (*)		5/8	
	SB 0716	Coffee beans	0.3		5/8	
	VC 0424	Cucumber	0.5		5/8	
	MO 0105	Edible offal (mammalian)	0.01 (*)		5/8	
	PE 0112	Eggs	0.01 (*)		5/8	
	VC 0425	Gherkin	1.5		5/8	
	FB 0269	Grapes	0.7		5/8	
		Lemons and limes (including Citron			5/8	(includes all commodities in this subgroup)
	GC 0645	Maize	0.01 (*)		5/8	.,

	Commod	<u>lity</u>	MRL (mg/l	<u>(g)</u>		<u>Step</u>	<u>Note</u>
	OR 0645	Maize oil, Edible	0.015			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	
	VC 0046	Melons, except watermelon	0.3			5/8	
	FM 0183	Milk fats	0.01	(*)		5/8	
	ML 0107	Milk of cattle, goats & sheep	0.01	(*)		5/8	
	FI 0350	Papaya	0.4			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	
	OR 0004	Orange oil, edible	126			5/8	
	FC 0004	Oranges, Sweet, Sour (including Orange-like hybrids): several cult	0.5 ivars			5/8	(includes all commodities in this subgroup)
	VD 0541	Soya bean (dry)	0.05			5/8	
	AB 0541	Soya bean hulls	0.2			5/8	
	GS 0659	Sugar cane	0.01	(*)		5/8	
	SO 0702	Sunflower seed	0.3			5/8	
	VO 0448	Tomato	1.5			5/8	
202	Fipronil						
	HH 0722	Basil	1.5			5/8	
225	Dimethor	morph					
	VL 0483	Lettuce, Leaf	9			5/8	
230	Chlorant	raniliprole					
	PE 0112	Eggs	0.2			5/8	
	SO 0697	Peanut	0.06			5/8	
	PO 0111	Poultry, Edible offal of	0.07			5/8	
	PF 0111	Poultry fats	0.08			5/8	
	PM 0110	Poultry meat	0.02			5/8	
	AS 0161	Straw, fodder (dry) and hay of ce grains and other grass-like plants			(dw)	5/8	
251	Saflufena	acil					
	AL 1020	Alfalfa fodder	0.06			5/8	
	GC 0640	Barley	1			5/8	
	CM 0640	Barley bran, unprocessed	3			5/8	
	AS 0640	Barley straw and fodder, Dry	10			5/8	
	MO 0105	Edible offal (mammalian)	60			5/8	
	PE 0112	Eggs	0.01	(*)		5/8	
	AS 0162	Hay or fodder (dry) of grasses	30			5/8	
	MF 0100	Mammalian fats (except milk fats	0.05			5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.01			5/8	
	ML 0106	Milks	0.01			5/8	
	SO 0697	Peanut	0.01	(*)		5/8	
	FI 0355	Pomegranate	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	
	GS 0659	Sugar cane	0.03			5/8	
	DM 0659	Sugar cane molasses	1			5/8	
	SO 0702	Sunflower seed	0.7			5/8	

	Commodity		MRL (mg/kg)		<u>Step</u>	<u>Note</u>
	GC 0653	Triticale	0.7		5/8	
	AS 0653	Triticale straw and fodder, Dry	10		5/8	
	GC 0654	Wheat	0.7		5/8	
	AS 0654	Wheat straw and fodder, Dry	10		5/8	
253	Penthiop	yrad				
	AS 0645	Maize fodder (dry)	10	(DM)	5/8	
261	Benzovir	ndiflupyr				
	GC 0640	Barley	1		5/8	
	AS 0640	Barley straw and fodder, Dry	15	(dw)	5/8	
	VD 0071	Beans (dry)	0.15		5/8	
	SB 0716	Coffee beans	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	0.01 (*)		5/8	
	VC 0045	Fruiting vegetables, Cucurbits	0.2		5/8	
	VO 0050	Fruiting vegetables other than cucurbits	0.9		5/8	
	FB 0269	Grapes	1		5/8	
	MF 0100	Mammalian fats (except milk fat	s) 0.03		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.03	F	5/8	
	GC 0647	Oats	1		5/8	
	AS 0647	Oat straw and fodder, Dry	15	(dw)	5/8	
	ML 0106	Milks	0.01 (*)		5/8	
	AL 0072	Pea hay or pea fodder (dry)	8	(dw)	5/8	
	SO 0697	Peanut	0.04		5/8	
	AL 0697	Peanut fodder	15	(dw)	5/8	
	VD 0072	Peas (dry)	0.2		5/8	
	HS 0444	Peppers Chili, dried	9		5/8	
	FP 0009	Pome fruits	0.2		5/8	
	VR 0589	Potato	0.02		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	0.2		5/8	
	GC 0650	Rye	0.1		5/8	
	AS 0650	Rye straw and fodder, Dry	15	(dw)	5/8	
	VD 0541	Soya bean (dry)	0.08		5/8	
	GS 0659	Sugar cane	0.04		5/8	
	VO 0447	Sweet corn (corn-on-the-cob)	0.01 (*)		5/8	
	GC 0653	Triticale	0.1		5/8	
	AS 0653	Triticale straw and fodder, Dry	15	(dw)	5/8	
	GC 0654	Wheat	0.1		5/8	
	AS 0654	Wheat straw and fodder, Dry	15	(dw)	5/8	
262	Bixafen					
	GC 0640	Barley	0.4		5/8	
	AS 0640	Barley straw and fodder, Dry	20	(dw)	5/8	
	MO 0105	Edible offal (mammalian)	4		5/8	
	PE 0112	Eggs	0.05		5/8	

	Commod	lity	MRL (mg/kg)		<u>Step</u>	Note
	MF 0100	Mammalian fats (except milk fats	s) 2		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	2	(fat)	5/8	
	ML 0106	Milks	0.2		5/8	
	FM 0183	Milk fats	5		5/8	
	GC 0647	Oats	0.4		5/8	
	AS 0647	Oat straw and fodder, Dry	20	(dw)	5/8	
	PO 0111	Poultry, Edible offal of	0.05		5/8	
	PF 0111	Poultry fats	0.05		5/8	
	PM 0110	Poultry meat	0.02 (*)		5/8	
	SO 0495	Rape seed	0.04		5/8	
	OR 0495	Rape seed oil, Edible	0.08		5/8	
	GC 0650	Rye	0.05		5/8	
	AS 0650	Rye straw and fodder, Dry	20	(dw)	5/8	
	GC 0653	Triticale	0.05		5/8	
	AS 0653	Triticale straw and fodder, Dry	20	(dw)	5/8	
	GC 0654	Wheat	0.05		5/8	
	CM 0654	Wheat bran, Unprocessed	0.15		5/8	
	AS 0654	Wheat straw and fodder, Dry	20	(dw)	5/8	
265	Fluensul	fone				
	VR 0574	Beetroot	4		5/8	
	VB 0040	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas	1.5		5/8	
	VR 0577	Carrot	4		5/8	
	VR 0578	Celeriac	4		5/8	
	VS 0624	Celery	2		5/8	
	VR 0579	Chervil, Turnip-rooted	4		5/8	
	VC 0424	Cucumber	0.7		5/8	
	MO 0105	Edible offal (mammalian)	0.01 (*)		5/8	
	PE 0112	Eggs	0.01 (*)		5/8	
	VO 0050	Fruiting vegetables other than cucurbits	0.7		5/8	except sweetcorn and mushroom
	VR 0583	Horseradish	4		5/8	
	VL 0481	Komatsuna	9		5/8	
	VL 0053	Leafy vegetables	1	(R)	5/8	(not specified elsewhere)
	VP 0060	Legume vegetables	0.1	(R)	5/8	
	VL 0482	Lettuce, Head	0.8		5/8	
	FB 2009	Low growing berries	0.5		5/8	
	MF 0100	Mammalian fats (except milk fats	s) 0.01 (*)		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.01 (*)	(fat)	5/8	
	VC 0046	Melons, except watermelon	0.3		5/8	
	ML 0106	Milks	0.01 (*)		5/8	
	VL 0485	Mustard greens	20		5/8	
	VR 0588	Parsnip	4		5/8	
	HS 0444	Peppers Chili, dried	7		5/8	
	VR 0589	Potato	0.8		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	

	Commod		MRL (mg/kg)		<u>Step</u>	<u>Note</u>
	VR 0494		4		5/8	
	VR 0075	Root and tuber vegetables	3	(R)	5/8	(not specified elsewhere)
		Potato, dried	2		5/8	
	VR 0591	Radish, Japanese	4		5/8	
	VL 0494	Radish leaves (including radish t	•		5/8	
	VL 0502	Spinach	4		5/8	
	VC 0431	Squash, summer	0.7		5/8	
	VR 0508	Sweet potato	0.8		5/8	
	VR 0497	Swede	4		5/8	
	DV 0448	Tomato, dried	1.5		5/8	
	VR 0506	Turnip, Garden	4		5/8	
	VW 0448	Tomato paste	1.5		5/8	
	VL 0506	Turnip greens	10		5/8	
	VC 0432	Watermelon	0.3		5/8	
269	Tolfenpy	rad				
	TN 0672	Pecan	0.01 (*)		5/8	
	VR 0589	Potato	0.01 (*)		5/8	
278	Metrafen	one				
	FS 0013	Cherries (includes all commodities in this subgroup)	es 2		5/8	
	VO 0440	Egg plant	0.6		5/8	
	VC 0045	Fruiting vegetables, Cucurbits	0.5		5/8	
	DH 1100	Hops, Dry	70		5/8	
	FS 2001	Peaches (including Nectarine an Apricots) (includes all commoditi in this subgroup)			5/8	
	VO 0444	Peppers Chili	2		5/8	
	HS 0444	Peppers Chili, dried	20		5/8	
	VO 0445	Peppers, Sweet (including pimer or pimiento)	nto 2		5/8	
	FP 0009	Pome fruits	1		5/8	
	VO 0448	Tomato	0.6		5/8	
282	Flonicam	nid				
	TN 0660	Almonds	0.01 (*)		5/8	
	AM 0660	Almond hulls	9		5/8	
	VB 0040	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas	2		5/8	
	VL 0054	Brassica leafy vegetables	15		5/8	
	MO 0105	Edible offal (mammalian)	0.2		5/8	
	PE 0112	Eggs	0.15		5/8	
	MF 0100	Mammalian fats (except milk fats	0.05		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.15		5/8	
	ML 0106	Milks	0.15		5/8	
	FP 0009	Pome fruits	0.8		5/8	
	PO 0111	Poultry, Edible offal of	0.1		5/8	
	VR 0589	Potato	0.015		5/8	
	PF 0111	Poultry fats	0.05		5/8	
	PM 0110	Poultry meat	0.1		5/8	
	SO 0495	Rape seed	0.5		5/8	

	Commodity		RL (mg/kg	<u>Step</u>	<u>Note</u>	
	GC 0654	Wheat	0.08		5/8	
	AS 0654	Wheat straw and fodder, Dry	0.3		5/8	
283	Fluazifop	o-p-butyl				
	TN 0660	Almonds	0.01	(*)	5/8	
	FI 0327	Banana	0.01	(*)	5/8	
	AL 0061	Bean fodder	7	(dw)	5/8	
	VP 0061	Beans, except broad bean and soy bean	ya 6		5/8	
	VD 0071	Beans (dry)	40		5/8	
	VB 0041	Cabbages, Head	3		5/8	
	FB 2005	Cane berries	0.01 ((*)	5/8	
	VR 0577	Carrot	0.6		5/8	
	VR 0578	Celeriac	0.4		5/8	
	FC 0001	Citrus fruits	0.01 ((*)	5/8	
	AB 0001	Citrus pulp, Dry	0.06	(*)	5/8	
	SB 0716	Coffee beans	0.01 ((*)	5/8	
	SO 0691	Cotton seed	0.7		5/8	
	FB 0021	Currants, Black, Red, White	0.01	(*)	5/8	
	MO 0105	Edible offal (mammalian)	0.2		5/8	
	PE 0112	Eggs	0.03		5/8	
	VO 0440	Egg plant	0.4		5/8	
	VD 0561	Field pea (dry)	3		5/8	
	AM 1051	Fodder beet	0.5		5/8	
	VA 0381	Garlic	0.3		5/8	
	FB 0268	Gooseberry	0.01	(*)	5/8	
	FB 0269	Grapes	0.01	(*)	5/8	
	VL 0483	Lettuce, Leaf	0.01	(*)	5/8	
	TN 0669	Macadamia nuts	0.01	(*)	5/8	
	MF 0100	Mammalian fats (except milk fats)	0.09		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.09	(fat)	5/8	
	ML 0106	Milks	0.2		5/8	
	SO 0305	Olives for oil production	0.01	(*)	5/8	
	VA 0385	Onion, Bulb	0.3		5/8	
	OR 0004	Orange oil, edible	0.05	(*)	5/8	
	VP 0063	Peas (pods and succulent=immatuseeds)	ure 2		5/8	
	VP 0064	Peas, Shelled (succulent seeds)	15		5/8	
	TN 0672	Pecan	0.01 ((*)	5/8	
	FP 0009	Pome fruits	0.01 ((*)	5/8	
	VR 0589	Potato	0.6		5/8	
	PO 0111	Poultry, Edible offal of	0.09		5/8	
	PF 0111	Poultry fats	0.03		5/8	
	PM 0110	Poultry meat	0.03		5/8	
	VA 0388	Shallot	0.3		5/8	
	VD 0541	Soya bean (dry)	15		5/8	
	AL 0541	Soya bean fodder	4	(dw)	5/8	
	FS 0012	Stone fruits	0.01	(*)	5/8	
	FB 0275	Strawberry	0.3		5/8	
	VR 0596	Sugar beet	0.5		5/8	

	Commod		_ (mg/kg)		Step	<u>Note</u>
	DM 0596	Sugar beet molasses	7		5/8	
	AB 0596	Sugar beet pulp, Dry	20		5/8	
	GS 0659	Sugar cane	0.01 (*)		5/8	
	SO 0702	Sunflower seed	7		5/8	
	VR 0497	Swede	4		5/8	
	FT 0305	Table Olives	0.01 (*)		5/8	
	VO 0448	Tomato	0.4		5/8	
	VR 0506	Turnip, Garden	4		5/8	
	TN 0678	Walnuts	0.01 (*)		5/8	
285	Flupyrad	ifurone				
	AL 3350	Alfalfa hay	30	(dw)	5/8	
	DF 0226	Apples, dried	2		5/8	
	AL 3351	Bean hay	30		5/8	
	VP 0061	Beans, except broad bean and soya bean	1.5		5/8	(green pods and immature seeds)
	VD 0071	Beans (dry)	0.4		5/8	
	VP 0062	Beans, Shelled	0.2		5/8	(succulent = immature seeds)
	VA 0036	Bulb vegetables, except fennel, bulb	0.01 (*)		5/8	
	FB 2006	Bush berries	4		5/8	
	VB 0041	Cabbages, Head	1.5		5/8	
	VB 0404	Cauliflower	6		5/8	
	GC 0080	Cereal grains	3		5/8	(except maize and rice)
	SO 0691	Cotton seed	8.0		5/8	
	VC 0424	Cucumber	0.4		5/8	
	DF 0269	Dried grapes (=currants, raisins and sultanas)	8		5/8	
	MO 0105	Edible offal (mammalian)	4		5/8	
	PE 0112	Eggs	0.7		5/8	
	FB 0269	Grapes	3		5/8	
	FC 0002	Lemons and limes (including Citron)	1.5		5/8	
	VL 0482	Lettuce, Head	4		5/8	
	GC 0645	Maize	0.015		5/8	
	AS 3490	Maize bran, unprocessed	0.05		5/8	
	MF 0100	Mammalian fats (except milk fats)	1		5/8	
	FC 0003	Mandarins ((including Mandarin-like hybrids)	1.5		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	1.5		5/8	
	VC 0046	Melons, except watermelon	0.4		5/8	
	ML 0106	Milks	0.7		5/8	
	FC 0004	Oranges, Sweet, Sour (including Orange-like hybrids): several cultivar	4 's		5/8	
	AL 3353	Pea hay	50	(dw)	5/8	
	SO 0697	Peanut	0.04		5/8	
	AL 3352	Peanut hay	30	(dw)	5/8	
	VD 0072	Peas (dry)	3		5/8	
	VP 0063	Peas (pods and succulent=immature seeds)	3		5/8	
	VP 0064	Peas, Shelled (succulent seeds)	3		5/8	
	TN 0672	Pecan	0.015		5/8	
	VO 0051	Peppers	0.9		5/8	

	Commod	<u>lity</u> <u>l</u>	MRL (mg/kg)		<u>Step</u>	Note
	HS 0444	Peppers Chili, dried	9		5/8	
	FP 0009	Pome fruits	0.9		5/8	
	VR 0589	Potato	0.05		5/8	
	PO 0111	Poultry, Edible offal of	1		5/8	
	PF 0111	Poultry fats	0.3		5/8	
	PM 0110	Poultry meat	0.8		5/8	
	FC 0005	Pummelo and Grapefruits (included Shaddock-like hybrids, among of Grapefruit)	•		5/8	
	VR 0075	Root and tuber vegetables	0.7		5/8	(except potato)
	AS 0081	Straw and fodder (dry) of cereal grains	40	(dw)	5/8	
	VD 0541	Soya bean (dry)	1.5		5/8	
	AL 3354	Soya bean hay	40	(dw)	5/8	
	VC 0431	Squash, summer	0.2		5/8	
	FB 0275	Strawberry	1.5		5/8	
	VO 0447	Sweet corn (corn-on-the-cob)	0.05		5/8	
	VR 0508	Sweet potato	0.05		5/8	
	VO 0448	Tomato	1		5/8	
	CM 0654	Wheat bran, Unprocessed	8		5/8	
	CF 1210	Wheat germ	5		5/8	
	CF 1212	Wheat wholemeal	5		5/8	
288	Acibenzo	olar-S-methyl				
	FP 0226	Apple	0.3		5/8	
	FI 0327	Banana	0.06		5/8	
	VB 0040	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas	0.7		5/8	
	VL 0054	Brassica leafy vegetables	1		5/8	
	FC 0001	Citrus fruits	0.015		5/8	
	MO 0105	Edible offal (mammalian)	0.02 (*)		5/8	
	PE 0112	Eggs	0.02 (*)		5/8	
	VC 0045	Fruiting vegetables, Cucurbits	0.8		5/8	
	VA 0381	Garlic	0.15		5/8	
	FI 0341	Kiwifruit	0.03		5/8	
	VL 0482	Lettuce, Head	0.2		5/8	
	VL 0483	Lettuce, Leaf	0.4		5/8	
	FB 2009	Low growing berries	0.15		5/8	(including strawberries)
	MF 0100	Mammalian fats (except milk fats	0.02 (*)		5/8	
	VO 0448	Tomato	0.3		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.02 (*)		5/8	
	ML 0106	Milks	0.01 (*)		5/8	
	VA 0385	Onion, Bulb	0.15		5/8	
	FS 2001	Peaches (including Nectarine an Apricots) (includes all commodition this subgroup)			5/8	
	PO 0111	Poultry, Edible offal of	0.02 (*)		5/8	
	PF 0111	Poultry fats	0.02 (*)		5/8	
	PM 0110	Poultry meat	0.02 (*)		5/8	
	VA 0388	Shallot	0.15		5/8	
	VL 0502	Spinach	0.6		5/8	

289	Commod Imazetha		RL (mg/k	<u>g)</u>		<u>Step</u>	<u>Note</u>
	AL 1031	Clover hay or fodder	1.5		(dw)	5/8	
		Edible offal (mammalian)	0.01	(*)	()	5/8	
	PE 0112	· · ·	0.01	. ,		5/8	
		Lentil (dry)	0.1			5/8	
	GC 0645		0.1			5/8	
	AS 0645	Maize fodder (dry)			(dw)	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	
	SO 0697	Peanut	0.1	(*)		5/8	
	PF 0111	Poultry fats	0.01	(*)		5/8	
	PO 0111	Poultry, Edible offal of	0.01	(*)		5/8	
	PM 0110	Poultry meat	0.01	(*)		5/8	
	SO 0495	Rape seed	0.1	(*)		5/8	
	GC 0649	Rice	0.1	(*)		5/8	
	AS 0649	Rice straw and fodder, Dry	0.15	(*)	(dw)	5/8	
	VD 0541	Soya bean (dry)	0.03			5/8	
290	Isofetam	id					
	TN 0660	Almonds	0.01	(*)		5/8	
	AM 0660	Almond hulls	0.8		(dw)	5/8	
	DF 0269	Dried grapes (=currants, raisins and sultanas)	7			5/8	
		Edible offal (mammalian)	0.03			5/8	
	PE 0112	Eggs	0.01	(*)		5/8	
	VL 0482	Lettuce, Head	5			5/8	
	VL 0483	Lettuce, Leaf	7			5/8	
	FB 2009	Low growing berries	4			5/8	(includes all commodities in this subgroup)
		Mammalian fats (except milk fats)	0.02			5/8	
		Meat (from mammals other than marine mammals)	0.02		(fat)	5/8	
	ML 0106	Milks	0.01			5/8	
	PO 0111		0.01			5/8	
	PF 0111	Poultry fats	0.01			5/8	
		Poultry meat	0.01	(*)		5/8	
	SO 0495	•	0.015			5/8	
		Rape seed oil, Edible	0.03			5/8	
004	FB 2008	Small fruit vine climbing (includes a commodities in this subgroup)	all 3			5/8	
291	Oxathiap		o =			E /0	
		Cabbages, Head	0.7			5/8	
	VB 0404	Cauliflower	0.3			5/8	
	VB 0400	Broccoli	1.5			5/8	
	DF 0269	Dried grapes (=currants, raisins and sultanas)	1.3	600		5/8	
		Edible offal (mammalian)	0.01			5/8	
	PE 0112	Eggs	0.01	(*)		5/8	
	VC 0045	Fruiting vegetables, Cucurbits	0.2			5/8	

	Commod		_ (mg/k	<u>(g)</u>		<u>Step</u>	<u>Note</u>
	VO 0050	Fruiting vegetables other than cucurbits	0.4			5/8	(except sweetcorn and mushrooms)
	VA 0381	Garlic	0.04			5/8	
	VA 0382	Garlic, Great-headed	0.04			5/8	
	DV 0604	Ginseng, dried including red ginseng	0.15			5/8	
	FB 0269	Grapes	0.9			5/8	
	VA 0384	Leek	2			5/8	
	VL 0482	Lettuce, Head	3			5/8	
	VL 0483	Lettuce, Leaf	5			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	
	VA 0385	Onion, Bulb	0.04			5/8	
	VA 0387	Onion, Welsh	2			5/8	
	VP 0063	Peas (pods and succulent=immature seeds)	1			5/8	
	VP 0064	Peas, Shelled (succulent seeds)	0.05			5/8	
	HS 0444	Peppers Chili, dried	4			5/8	
	VR 0589	Potato	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	
	VL 0502	Spinach	15			5/8	
	VR 0508	Sweet potato	0.01	(*)		5/8	
	DV 0448	Tomato, dried	3			5/8	
	VA 0388	Shallot	0.04			5/8	
	VA 0389	Spring Onion	2			5/8	
292	Pendime	thalin					
	AL 1020	Alfalfa fodder	4		(dw)	5/8	
	AM 0660	Almond hulls	7		(dw)	5/8	
	VS 0621	Asparagus	0.1			5/8	
	VP 0061	Beans, except broad bean and soya bean	0.05	(*)		5/8	(green pods and immature seeds)
	AL 0061	Bean fodder	0.3		(dw)	5/8	
	VD 0071	Beans (dry)	0.05	(*)		5/8	
	VL 0054	Brassica leafy vegetables	0.3			5/8	except kale
	VR 0577	Carrot	0.5			5/8	
	VS 0624	Celery	0.09			5/8	
	FC 0001	Citrus fruits	0.03			5/8	
	MO 0105	Edible offal (mammalian)	0.05			5/8	
	PE 0112	Eggs	0.01	(*)		5/8	
	VA 0380	Fennel, Bulb	0.05	(*)		5/8	
	VA 0381	Garlic	0.05	(*)		5/8	
	AS 0162	Hay or fodder (dry) of grasses	2500		(dw)	5/8	
	DH 1100	Hops, Dry	0.05	(*)		5/8	
	VL 0480	Kale (including among others: Collards, Curly kale, Scotch kale, thousand-headed kale; not including Marrow-stem kale)	0.5			5/8	
	VL 0483	Lettuce, Leaf	4			5/8	

	Commod	lity MRI	_ (mg/kg	1	<u>Step</u>	<u>Note</u>
	MF 0100	Mammalian fats (except milk fats)	0.2		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.2	(fat)	5/8	
	ML 0106	Milks	0.02		5/8	
	FM 0183	Milk fats	8.0		5/8	
	VA 0385	Onion, Bulb	0.05 (*)	5/8	
	VA 0387	Onion, Welsh	0.4		5/8	
	VD 0072	Peas (dry)	0.05 (*)	5/8	
	VP 0063	Peas (pods and succulent=immature seeds)	e 0.05 (*)	5/8	
	VP 0064	Peas, Shelled (succulent seeds)	0.05 (*)	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	
	VA 0388	Shallot	0.05 (*)	5/8	
	VA 0389	Spring Onion	0.4		5/8	
	TN 0085	Tree nuts	0.05		5/8	
293	Pinoxade	en				
	GC 0640	Barley	0.7		5/8	
	AS 0640	Barley straw and fodder, Dry	3	(dw)	5/8	
	PE 0112	Eggs	0.02 (*)	5/8	
	PO 0111	Poultry, Edible offal of	0.02 (*)	5/8	
	PF 0111	Poultry fats	0.02 (*)	5/8	
	PM 0110	Poultry meat	0.02 (*)	5/8	
	GC 0654	Wheat	0.7		5/8	
	AS 0654	Wheat straw and fodder, Dry	3	(dw)	5/8	
294	Spiromes	sifen				
	VB 0040	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas	3		5/8	
	VL 0054	Brassica leafy vegetables	15		5/8	
	VR 0463	Cassava	0.02 (*)	5/8	
	SB 0716	Coffee beans	0.2		5/8	
	VP 0526	Common bean (pods and/or immature seeds)	1		5/8	
	SO 0691	Cotton seed	0.7		5/8	
	VC 0424	Cucumber	0.15		5/8	
		Edible offal (mammalian)	0.3		5/8	
	VO 0440	Egg plant	0.7		5/8	
	PE 0112	Eggs	0.02		5/8	
	VC 0045	Fruiting vegetables, Cucurbits	0.09		5/8	except melon and cucumber
	VL 0053	Leafy vegetables	15		5/8	
	FB 2009	Low growing berries	3		5/8	
	GC 0645	Maize	0.02 (*)	5/8	
	AS 0645	Maize fodder (dry)	6		5/8	
	MF 0100	Mammalian fats (except milk fats)	0.15		5/8	
	MM 0095	Meat (from mammals other than marine mammals)	0.15	F	5/8	
	VC 0046	Melons, except watermelon	0.3		5/8	
	ML 0106		0.015		5/8	
	VO 0442	Okra	0.5		5/8	

Commod	<u>lity</u> <u>I</u>	/IRL (mg/kg)	<u>Step</u>	<u>Note</u>
VO 0443	Pepino	0.5	5/8	
VO 0051	Peppers	0.5	5/8	
HS 0444	Peppers Chili, dried	5	5/8	
GC 0656	Popcorn	0.02 (*)	5/8	
VR 0589	Potato	0.02 (*)	5/8	
PO 0111	Poultry, Edible offal of	0.05	5/8	
PF 0111	Poultry fats	0.02	5/8	
PM 0110	Poultry meat	0.02	5/8	
VO 0447	Sweet corn (corn-on-the-cob)	0.02 (*)	5/8	
VR 0508	Sweet potato	0.02 (*)	5/8	
DT 1114	Tea, Green, Black (black, fermen and dried)	ted 70	5/8	
VO 0448	Tomato	0.7	5/8	
DV 0448	Tomato, dried	4	5/8	
VW 0448	Tomato paste	2	5/8	

APPENDIX IV

CODEX MAXIMUM RESIDUE LIMITS FOR PESTICIDES (For revocation)

		(FOI TEVO		•		
	Commod	<u>lity </u>	_ (mg/k	<u>g)</u>	<u>Step</u>	<u>Note</u>
51	Methidat	hion				
	TN 0660	Almonds	0.05	(*)	CXL-D	
	VS 0620	Artichoke, Globe	0.05	(*)	CXL-D	
	VD 0071	Beans (dry)	0.1		CXL-D	
	VB 0041	Cabbages, Head	0.1		CXL-D	
	MF 0812	Cattle fat	0.02	(*)	CXL-D	
	SO 0691	Cotton seed	1	. ,	CXL-D	
	OC 0691	Cotton seed oil, Crude	2		CXL-D	
		Cucumber	0.05		CXL-D	
	MO 0097	Edible offal of cattle, pigs & sheep	0.02	(*)	CXL-D	
	PE 0112	· ·	0.02		CXL-D	
		Goat, Edible offal of	0.02		CXL-D	
	MF 0814		0.02	* *	CXL-D	
		Goat meat	0.02	* *	CXL-D	
		Grapefruit	2	()	CXL-D	
		Hops, Dry	5		CXL-D	
		Lemons and limes (including Citron)	2		CXL-D	
		Macadamia nuts	0.01	(*)	CXL-D	
	GC 0645		0.01	()	CXL-D	
				(*)	_	
	ML 0106	Meat of cattle, pigs & sheep	0.02	()	CXL-D CXL-D	
		-			_	
		Nectarine Onion Bulb	0.2		CXL-D	
		Onion, Bulb	0.1		CXL-D	
	FC 0004	Oranges, Sweet, Sour (including Orange-like hybrids): several cultivar	2 s		CXL-D	
	VD 0072	Peas (dry)	0.1		CXL-D	
	VP 0063	Peas (pods and succulent=immature seeds)	0.1		CXL-D	
	TN 0672	Pecan	0.05	(*)	CXL-D	
	MF 0818	Pig fat	0.02	(*)	CXL-D	
	FI 0353	Pineapple	0.05		CXL-D	
	FS 0014	Plums (including prunes) (includes all commodities in this subgroup)	0.2		CXL-D	
	VR 0589	Potato	0.02	(*)	CXL-D	
	PO 0111	Poultry, Edible offal of	0.02	(*)	CXL-D	
	PF 0111	Poultry fats	0.02	(*)	CXL-D	
	PM 0110	Poultry meat	0.02	(*)	CXL-D	
	VR 0494	Radish	0.05	(*)	CXL-D	
	SO 0495	Rape seed	0.1	. ,	CXL-D	
		Safflower seed	0.1		CXL-D	
		Sheep fat	0.02	(*)	CXL-D	
		Sorghum	0.2	. ,	CXL-D	
		Spices, Fruits and Berries	0.02		CXL-D	
		Spices, Roots and Rhizomes	0.05		CXL-D	
		Sugar beet	0.05	(*)	CXL-D	
		Sunflower seed	0.5	()	CXL-D	
		Table Olives	0.5		CXL-D	
	0000	Table Olives	1		J/L-D	

	Commod VO 0448		MRL (mg/k	<u>g)</u>		Step CXL-D	<u>Note</u>
	TN 0678		0.05	/ *\		CXL-D	
90		ifos-Methyl	0.03	()		CAL-D	
90	GC 0649	-	0.1			CVLD	
			0.1		D-	CXL-D	
		Sorghum	10		Po	CXL-D	
	GC 0654		10		Po DaD	CXL-D	
400		Wheat bran, Unprocessed	20		PoP	CXL-D	
182	Pencona		0.05	/ + \		01/1 D	
		Cattle, Edible offal of	0.05			CXL-D	
		Cattle meat	0.05			CXL-D	
		Cattle milk	0.01	(*)		CXL-D	
		Chicken eggs	0.05			CXL-D	
		Chicken meat	0.05	(*)		CXL-D	
		Cucumber	0.1			CXL-D	
		Dried grapes (=currants, raisins sultanas)				CXL-D	
	FB 0269	Grapes	0.2			CXL-D	
	DH 1100	Hops, Dry	0.5			CXL-D	
	VC 0046	Melons, except watermelon	0.1			CXL-D	
	FS 0245	Nectarine	0.1			CXL-D	
	FS 0247	Peach	0.1			CXL-D	
	FP 0009	Pome fruits	0.2			CXL-D	
	FB 0275	Strawberry	0.1			CXL-D	
	VO 0448	Tomato	0.2			CXL-D	
190	Tefluben	zuron					
	VB 0402	Brussels sprouts	0.5			CXL-D	
	VB 0041	Cabbages, Head	0.2			CXL-D	
	FS 0014	Plums (including prunes) (included all commodities in this subgroup				CXL-D	
	FP 0009	Pome fruits	1			CXL-D	
	VR 0589	Potato	0.05	(*)		CXL-D	
230	Chlorant	raniliprole					
	PE 0112	Eggs	0.2			CXL-D	
	AS 0645	Maize fodder (dry)	25			CXL-D	
	PO 0111	Poultry, Edible offal of	0.01	(*)		CXL-D	
	PF 0111	Poultry fats	0.01	(*)		CXL-D	
	PM 0110	Poultry meat	0.01	(*)	(fat)	CXL-D	
	AS 0081	Straw and fodder (dry) of cerea	I grains 0.3			CXL-D	
251	Saflufena	acil					
	AS 0640	Barley straw and fodder, Dry	0.05			CXL-D	
	MO 0105	Edible offal (mammalian)	0.3			CXL-D	
		Mammalian fats (except milk fat	ts) 0.01			CXL-D	
		Meat (from mammals other than marine mammals)	•			CXL-D	
	ML 0106	·	0.01			CXL-D	
	SO 0702	Sunflower seed	0.7			CXL-D	
	AS 0654	Wheat straw and fodder, Dry	0.05			CXL-D	
261	Benzovir	· •				_	
		Edible offal (mammalian)	0.01	(*)		CXL-D	
	PE 0112		0.01			CXL-D	
		99-	0.01	` '			

	Commod	<u>dity</u> <u>M</u>	IRL (n	ng/k	<u>g)</u>	<u>Step</u>	Note
	MF 0100	Mammalian fats (except milk fats)	0	.01	(*)	CXL-D	
	MM 0095	Meat (from mammals other than marine mammals)	0	.01	(*)	CXL-D	
	ML 0106	Milks	0	.01	(*)	CXL-D	
	PO 0111	Poultry, Edible offal of	0	.01	(*)	CXL-D	
	PF 0111	Poultry fats	0	.01	(*)	CXL-D	
	PM 0110	Poultry meat	0	.01	(*)	CXL-D	
	VD 0541	Soya bean (dry)	0	.05		CXL-D	
265	Fluensul	fone					
	VC 0045	Fruiting vegetables, Cucurbits		0.3		CXL-D	
	VO 0050	Fruiting vegetables other than cucurbits		0.3		CXL-D	(except sweet corn and mushrooms)
	HS 0444	Peppers Chili, dried		2		CXL-D	
	DV 0448	Tomato, dried		0.5		CXL-D	
	VW 0448	3 Tomato paste		0.5		CXL-D	
278	Metrafen	one					
	VC 0424	Cucumber		0.2		CXL-D	
	VC 0425	Gherkin		0.2		CXL-D	
	VO 0444	Peppers Chili		2		CXL-D	
	HS 0444	Peppers Chili, dried		20		CXL-D	
	VO 0445	Peppers, Sweet (including pimento pimiento)	o or	2		CXL-D	
	VC 0431	Squash, summer	0	.06		CXL-D	
	VO 0448	Tomato		0.4		CXL-D	

APPENDIX V

DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Retained at Step 7)

	Commodity	MRL (mg/kg)	Source	<u>Step</u>	<u>Note</u>
126	Oxamyl				
	FC 0001 Citrus fruits	3		7	
	VC 0424 Cucumber	1		7	
	VC 0046 Melons, except watermelon	1		7	
	VO 0051 Peppers	5		7	
178	Bifenthrin				
	VO 0442 Okra	0.2		7	
189	Tebuconazole				
	VP 0526 Common bean (pods and/or in seeds)	nmature 2		7	
212	Metalaxyl-M				
	FP 0226 Apple	0.02 (*)		7	
	SB 0715 Cacao beans	0.02		7	
	FB 0269 Grapes	1		7	
	VL 0482 Lettuce, Head	0.5		7	
	VA 0385 Onion, Bulb	0.03		7	
	VO 0445 Peppers, Sweet (including pim pimiento)	ento or 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	

APPENDIX VI

PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES

(Retained at Step 4)

	Commodity	MRL (mg/kg)	Source	<u>Step</u>	<u>Note</u>
31	Diquat				
	VD 0071 Beans (dry)	0.05		4	
	MO 0105Edible offal (mammalian)	0.01 (*)		4	
	PE 0112 Eggs	0.01 (*)		4	
	MM 0095 Meat (from mammals other that marine mammals)	an 0.01 (*)		4	
	ML 0106 Milks	0.001 (*)		4	
	PO 0111 Poultry, Edible offal of	0.01 (*)		4	
	PM 0110 Poultry meat	0.01 (*)		4	
148	Propamocarb				
	VB 0041 Cabbages, Head	1		4	
	VL 0480 Kale (including among others: Collards, Curly kale, Scotch ka thousand-headed kale; not incl Marrow-stem kale)	20 le, uding		4	
177	Abamectin				
	VL 0502 Spinach	0.15		4	
178	Bifenthrin				
	VS 0624 Celery	3		4	
	VL 0482 Lettuce, Head	4		4	
	FB 0275 Strawberry	3		4	
243	Fluopyram				
	VO 0051 Peppers	0.5		4	
	HS 0444 Peppers Chili, dried	5		4	
246	Acetamiprid				
	VL 0485 Mustard greens	15		4	
252	Sulfoxaflor				
	TN 0085 Tree nuts	0.015		4	
264	Fenamidone				
	VL 0485 Mustard greens	60		4	
	VL 0502 Spinach	60		4	

APPENDIX VII

DRAFT AND PROPOSED DRAFT MAXIMUM RESIDUE LIMITS FOR PESTICIDES (Withdrawn by CCPR)

	Commod	lity	MRL (mg/kg)		<u>Step</u>	<u>Note</u>
90	Chlorpyr	ifos-Methyl				
	GC 0640	Barley	10	Ро	MRL-W	
	GC 0080	Cereal grains	5	Ро	MRL-W	(except maize and rice)
	GC 0647	Oats	10	Ро	MRL-W	
	GC 0649	Rice	10	Ро	MRL-W	
	CM 0649	Rice, Husked	1.5	Ро	MRL-W	
	CM 1205	Rice, Polished	0.2	Po	MRL-W	
178	Bifenthri	n				
	FI 0345	Mango	0.5		MRL-W	
	FI 0350	Papaya	0.4		MRL-W	
225	Dimetho	morph				
	VL 0483	Lettuce, Leaf	20		MRL-W	
253	Penthiop	yrad				
	VL 0485	Mustard greens	50		MRL-W	
282	Flonican	nid				
	PE 0112	Eggs	0.03		MRL-W	
	MO 0105	Edible offal (mammalian)	0.06		MRL-W	
	MF 0100	Mammalian fats (except milk fat	ts) 0.02		MRL-W	
	MM 0095	Meat (from mammals other than marine mammals)	n 0.05		MRL-W	
	ML 0106	Milks	0.04		MRL-W	
	PO 0111	Poultry, Edible offal of	0.02		MRL-W	
	PF 0111	Poultry fats	0.02		MRL-W	
	PM 0110	Poultry meat	0.02		MRL-W	
283	Fluazifop	o-p-butyl				
	VR 0508	Sweet potato	2		MRL-W	
	VR 0600	Yams	2		MRL-W	
285	Flupyrad	lifurone				
	VS 0624	Celery	9		MRL-W	
	VL 0483	Lettuce, Leaf	15		MRL-W	
	VL 0485	Mustard greens	40		MRL-W	
	VL 0502	Spinach	30		MRL-W	

APPENDIX VIII

Part A

DRAFT REVISION OF THE *CLASSIFICATION OF FOOD AND FEED*: CLASS A: PRIMARY FOOD COMMODITIES OF PLANT ORIGIN

TYPE 02: VEGETABLES (For adoption at Step 8)

BULB VEGETABLES

Class A

Type 2 Vegetables Group 009 Group Letter Code VA

<u>Bulb vegetables</u> are pungent highly flavoured foods derived from fleshy scale bulbs (in some commodities including stem and leaves), of the genera Allium of the family Alliaceae and Lilium of the family Liliaceae.

The subterranean parts of the bulbs and shoots are protected from direct exposure to pesticides during the growing season.

The entire bulb may be consumed after removal of the parchment-like skin. The leaves and stems of some species or cultivars may also be consumed.

<u>Bulb onions</u> are bulb vegetables with mature bulbs. The entire bulb may be consumed after removal of the parchment-like skin.

<u>Green onions</u> are bulb vegetables with immature bulbs. Immature bulbs may be consumed and also leaves and stems of some species of cultivars may also be consumed.

The group is divided into 2 subgroups:

Subgroup 009A Bulb onions: Mature bulbs (dry)

Subgroup 009B Green onions: immature bulbs including leaves stems and flowers

<u>Portion of the commodity to which the MRL applies (and which is analysed)</u>: **Bulb onions: Whole commodity after removal of roots and adhering soil and whatever parchment skin is easily detached. Green onions: Whole vegetable after removal of roots and adhering soil.**

Group 009 Bulb vegetables

Code No.

VA 2603

VA 0035 Group of Bulb vegetables

Lily

Lilium spp.

Commodity

(includes all commodities in this group)

Subgroup 009A, Bulb onions

	, –
Code No.	Commodity
VA 2031	Subgroup of Bulb Onions
	(includes all commodities in this subgroup)
VA 2600	Daylily
	Hemerocallis fulva (L.) L.; H minor Mill; H. citrina Baroni; H. lilioasphodelus L.
VA 2601	Fritillaria (bulb)
	Fritillaria camchatcensis (L.) Ker. Gawl.
VA 0381	Garlic
	Allium sativum L.
VA 0382	Garlic, Great-headed
	Allium ampeloprasum L., var. ampeloprasum
VA 2602	Garlic, Serpent
	Allium sativum var. ophioscorodon (Link) Döll

11=1 1171 11 719	F - 1 1 1 1 1 1 1 1
VA 0385	Onion, Bulb
	Allium cepa L. var. cepa, various cultivars
VA 0386	Onion, Chinese
	Allium chinense G. Don.;
	Syn: <i>A. bakeri</i> Regel
-	Rakkyo, see Onion, Chinese, VA 0386
VA 0388	Shallot
	A. cepa L., var. aggregatum Don.
VA 0390	Silverskin onion
	Allium cepa L.
Subgroup 009E	3, Green onions
Code No.	<u>Commodity</u>
VA 2032	Subgroup of Green Onions
	(includes all commodities in this subgroup)
VA 2605	Chives
	Allium schoenoprasum L.
VA 2606	Chives, Chinese
	Allium tuberosum Rottler ex Spreng.
VA 2607	Elegans hosta
	Hosta sieboldiana (Hook.) Engl.
VA 2608	Fritillaria (green)
	Fritillaria camchatcensis (L.) Ker. Gawl.
VA 2609	Garlic chives
	Allium sativum L. var. sativum
-	Japanese bunching onion, see Onion, Welsh, VA 0387
VA 0383	Kurrat
	Allium kurrat Schweinf. Ex K. Krause
VA 2610	Lady's leek
	Allium cernuum Roth
VA 0384	Leek
	Allium porrum L.;
	Syn: A. ampeloprasum L., var. porrum (L.) Gay
-	Multiplying onion, see Onion, Welsh, VA 0387
VA 2611	Onion, Beltsville bunching
	Allium x proliferum (Moench) Schrad.
	Syn: Allium cepa L. x A. fistulosum L.)
-	Onion, Egyptian, see Tree onion, VA 0391
VA 2612	Onion, fresh
	Allium fistulosum L. var. caespitosum Makino
-	Onion, green, see Spring onion, VA 0389
VA 2613	Onion, macrostem
	Allium macrostemom Bunge

VA 2614	Onion, pearl
	Allium porrum L. var. sectivum Lueder
VA 2615	Onion, potato
	Allium cepa var. aggregatum G. Don.
VA 0387	Onion, Welsh
	Allium fistulosum L.
VA 0389	Spring onion
	Allium cepa L., various cultivars, a.o. White Lisbon; White Portugal
VA 0391	Tree onion
	Allium x proliferum (Moench) Schrad. ex Willd.; Allium x wakegii Araki
	Syn: A. cepa var. proliferum (Moench) Regel
	Syn: A. cepa L. var. bulbiferum L.H. Bailey
	Syn: A. cepa L. var. viviparum (Metz.) Alef.
VA 2616	Wild leek
	Allium tricoccum Aiton

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.

The group is divided into 3 subgroups:

Subgroup 10A Flowerhead Brassicas

Subgroup 10B Head Brassicas

Subgroup 10C Stem Brassicas

<u>Portion of the commodity to which the MRL applies (and which is analysed):</u> 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)

Code No. Commodity

VB 0040 Group of Brassica vegetables (except Brassica leafy vegetables)

(includes all commodities in this group)

Subgroup 10A Flowerhead Brassicas

Code No. Commodity

VB 0042 Subgroup of Flowerhead Brassicas

(includes all commodities in this subgroup)

VB 0400 Broccoli

Brassica oleracea L. var. italica Plenck

- Broccoli, Chinese, see Brassica leafy vegetables Group 13B

Broccoli, Sprouting, see Broccoli, VB 0400

VB 0404 Cauliflower

Brassica oleracea L. var. botrytis L., several cultivars (white and green)

Cauliflower, Green, see Cauliflower, VB 0404

- Kailan, see Broccoli, Chinese, Brassica leafy vegetables Group 13B

Romanesco broccoli, see Cauliflower, VB 0404

Subgroup 10B Head Brassicas

Code No. Commodity

VB 2036 Subgroup of Head Brassicas

(includes all commodities in this subgroup)

VB 0402 Brussels sprouts

Brassica oleracea L. var. gemmifera (DC.) Zenker

VB 0041	Cabbages, Head
	Brassica oleracea L. var. capitata L., several var. and cvs.
	(includes Savoy cabbage and Chinese cabbage)
-	Cabbage, see Cabbages, Head, VB 0041
-	Cabbage, Green, see Cabbages, Head, VB 0041
-	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 Cabbages, Head, VB 0041
-	Cabbage, White, see Cabbages, Head, VB 0041
	Brassica oleracea L. capitata L., var. alba
-	Cabbage, Savoy, see - Cabbages, Head, VB 0041
	Brassica oleracea L. var. sabauda L.
-	Cabbage, Yellow, see Cabbages, Head, VB 0041
-	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
	.

Subgroup 10C Stem Brassicas

Code No.	<u>Commodity</u>
VB 2016	Subgroup of Stem Brassicas
	(includes all commodities in this subgroup)
VB 0405	Kohlrabi
	Brassica oleracea L var. gongylodes L.
VB 2640.	Stem mustard
	Brassica juncea var. tsatsai Mao

FRUITING VEGETABLES, CUCURBITS

Class A

Type 2 Vegetables Group 011 Group Letter Code VC

Group 011 Fruiting vegetables, Cucurbits are derived from the immature or mature fruits of various plants, belonging to the botanical family Cucurbitaceae: usually these are annual vines or bushes.

The vegetables are fully exposed to pesticides during the period of fruit development. The edible portion of those fruits of which the inedible peel is discarded before consumption is protected from most pesticides, by the skin or peel, except from pesticides with a systemic action.

The entire fruiting vegetable or the edible portion after discarding the inedible peel may be consumed in the fresh form or after processing. The entire immature fruit of some of the fruiting vegetables species may be consumed, whereas only the edible portion of the mature fruit of the same species, after discarding the then inedible peel, is consumed. A number of varieties of winter squashes are eaten with peels, which needs to be considered in exposure assessment of these commodities to avoid underestimating the dietary intake of pesticide residues.

The group Fruiting vegetables, Cucurbits is divided into 2 subgroups:

Subgroup 11A Fruiting vegetables, Cucurbits - Cucumbers and Summer squashes

Subgroup 11B Fruiting vegetables, Cucurbits - Melons, Pumpkins and Winter squashes

<u>Portion of the commodity to which the MRL applies (and which is analysed)</u>: **Whole commodity after removal of stems.**

Group 011 Fruiting vegetables, Cucurbits

Code No. Commodity

VC 0045 Group of Fruiting vegetables, Cucurbits

(includes all commodities in this group)

Subgroup 011A Fruiting vegetables, Cucurbits - Cucumbers and Summer squashes

Code No.	Commodity
VC 2039	Subgroup of Fruiting vegetables, Cucurbits - Cucumbers and Summer squashes
	(includes all commodities in this subgroup)
-	Alcayota, see Gourd Malabar, VC 2658
VC 0420	Balsam apple
	Momordica balsamina L.
VC 0421	Bitter melon
	Momordica charantia L.
-	Bitter cucumber, see Bitter melon, VC 0421
-	Bitter gourd, see Bitter melon, VC 0421
-	Balsam pear, see Bitter melon, VC 0421
VC 0422	Bottle gourd
	Lagenaria siceraria (Molina) Standl.;
	Syn: L. vulgaris Ser.; L. leucantha (Duch.) Rusby
VC 0423	Chayote
	Sechium edule (Jacq.) Schwartz;
	Syn: Chayota edulis Jacq.
VC 2650	Chieh qua (young Chinese wax gourd, immature fruit)
	Benincasa hispida (Thunb.) Cogn. var. chieh-qua How

VC 2651	Chinese cucumber
	Trichosanthes kirilowii Maxim.
-	Christophine, see Chayote, VC 0423
-	Courgette, see Squash, Summer, VC 0431
VC 0424	Cucumber
	Cucumis sativus L.; English and forcing cucumber cultivars
-	Cucumber, brown-netted, see Cucumber, VC 0424
	Cucumis sativus L. var. sikkimensis
VC 2652	Cucumber, exploding
	Cyclanthera brachystachya (Ser.) Cogn.
VC 2653	Cucumber, stuffing
	Cyclanthera pedata (L.) Schrad.
-	Cucuzzi, see Bottle gourd, VC 0422
VC 2654	Gac
	Momordica cochinchinensis (Lour.) Spreng.
VC 0425	Gherkin
	Cucumis sativus L.; pickling cucumber cultivars
VC 0426	Gherkin, West Indian
	Cucumis anguria L.
VC 2655	Gourd, bitter snake
	Trichosanthes tricuspidata Lour.
VC 2656	Gourd, buffalo
	Cucurbita foetidissima Kunth
-	Gourd, club, see Snake gourd, VC 0430
VC 2657	Gourd, fluted
	Telfairia occidentalis Hook. f.
VC 2658	Gourd, Malabar
	Cucurbita ficifolia Bouché
VC 2659	Gourds, other, including
	Trichosanthes edulis Rugayah
	Trichosanthes laeoica C. Y. Cheng & Lu Q. Huang
VC 2660	Gourd, pointed
	Trichosanthes dioica Roxb.
VC 2661	Gourd, round
	Benincasa fistulosa (Stocks) H. schaef. & S.S. Renner
-	Gourd, Xishuangbanna, see Cucumber, VC 0424
	Cucumis sativus L. var. xishuangbannansis ined.
	Indian curry cucumber, see Cucumber, VC 0424
-	Indian round gourd, see Gourd, round, VC 2661
	Praecitrullus fistulosus (Stocks) Pangalo

VC 2662	Indian spine gourd
	Momordica dioica Roxb. Ex Willd.
VC 2663	lvy gourd
	Coccinia grandis (L.) Voigt
VC 2664	Japanese snake gourd
	Trichosanthes pilosa Lour.
VC 0427	Loofah, Angled
	Luffa acutangula (L.) Roxb.
VC 0428	Loofah, Smooth
	Luffa aegyptiaca Mill.
	Syn: Luffa cylindrica (L.) M. J. Roem;
-	Marrow (immature fruit), see Squash, Summer, VC 0431
	Cucurbita pepo L., several cultivars
-	Patisson, see Squash, Summer, VC 0431
-	Sinkwa or Sinkwa towel gourd, see Loofah, Angled, VC 0427
VC 0430	Snake gourd
	Trichosanthes cucumerina L.;
	Syn: <i>T. anguina</i> L.
-	Spiny bitter gourd, see Gac, VC 2654
-	Sponge gourd, see Loofah, Smooth, VC 0428
VC 0431	Squash, Summer
	Cucurbita pepo L.; Cucurbita pepo L. subsp. pepo; Cucurbita pepo L. subsp. Ovifera (L.) Harz; several cultivars, immature
-	Squash, White Bush, see Squash, Summer, VC 0431
-	Sweet gourd, see Gac, VC 2654
VC 2665	Tacaco
	Sechium tacaco (Pittier) C. Jeffrey
-	Vegetable sponge, see Loofah, Smooth, VC 0428
-	Wax gourd (immature fruit), see Chieh qua, VC 2650
-	West Indian gherkin, see Gherkin, West Indian, VC 0426
-	Zapallito italiano (zucchini), see Squash, Summer, VC 0431
-	Zucchetti, see Squash, Summer, VC 0431
-	Zucchini, see Squash, Summer, VC 0431
Subgroup 011B	Fruiting vegetables, Cucurbits – Melons, Pumpkins and Winter Squashes
Code No.	Commodity
VC 2040 Squashes	Subgroup of Fruiting vegetables, Cucurbits – Melons, Pumpkins and Winter
	(includes all commodities in this subgroup)
-	Acorn squash, see Winter squash, VC 0433
	Cucurbita pepo var. ovifera (L.) Harz

VC 2680	African horned melon
	Cucumis metuliferus E. Meyer ex Naudin
-	Butternut squash, see Winter squash, VC 0433 or Pumpkins, VC 0429
	Cucurbita moschata Duchesne
-	Calabaza, see Winter squash, VC 0433 or Pumpkins, VC 0429
	Cucurbita pepo L.
-	Cantaloupe, see Melons, except Watermelon, VC 0046
	Cucumis melo L., subsp. melo var. cantaloupo Ser.
VC 2681	Casabanana
	Sicana odorifera (Vell.) Naudin
-	Casaba or Casaba melon, see Melons, except Watermelon, VC 0046
-	Cheese pumpkin, see Winter squash, VC 0433 or Pumpkins, VC 0429
	Cucurbita moschata Duchesne
-	Chinese wax gourd (mature fruit), see Wax gourd (mature fruit), VC 2684
-	Citron melon, see Watermelon, VC 0432
	Citrullus lanatus (Thunb.) Mansf., var. edulis;
	Syn: Citrullus edulis Pang.
-	Cucumber, Armenian, see Melons, except Watermelon, VC 0046
-	Cushaws, see Pumpkins, VC 0429
	Mature cultivars of Cucurbita argyrosperma C. Huber
-	Giant pumpkin, see Winter squash, VC 0433 or Pumpkins, VC 0429
	Cucurbita moschata Duchesne
-	Hubbard squash, see Winter squash, VC 0433
-	Kiwano, see African horned melon, VC 2680
-	Korean Melon, see Melons, except Watermelon, VC 0046
	Hybrid cultivars of Cucumis melo L. subsp. agrestis (Naudin) Pangalo
-	Marrow (late variety), see Pumpkins, VC 0429
VC 0046	Melons, except Watermelon
	Several var. and cultivars of Cucumis melo L.
-	Melon, Crenshaw, see Melons, except Watermelon, VC 0046
	Cultivar of Cucumis melo L. subsp. melo var. inodorus H. Jacq.
-	Melon, Dudaim, see Melons, except Watermelon, VC 0046
	Cucumis melo L., var. dudaim (L.) Naudin.
-	Melon, Garden, see Melons, except watermelons VC 0046
-	Melon, Honey Ball, see Melons, except Watermelon, VC 0046
	Cultivar of Cucumis melo L., subsp. melo var. cantaloupo Ser.
-	Melon, Honeydew, see Melons, except Watermelon, VC 0046
	Cultivar of Cucumis melo L., var. inodorus Naud.
-	Melon, Mango, see Melons, except Watermelon, VC 0046

VC 2683	Melon, nara
	Acanthosicyos horridus Welw. ex Benth. & Hook. f.
-	Melon, Oriental Pickling, see Melons, except Watermelon, VC 0046
	Cucumis melo L. subsp. agrestis (Naudin) Pangalo var. conomon (Thunb.) Makino
-	Melon, Persian, see Melons, except Watermelon, VC 0046
	Cultivar of Cucumis melo L., subsp. melo var. cantaloupo Ser.
-	Melon, Pomegranate, see Melons, except watermelons VC 0046
-	Melon, Serpent, see Melons, except Watermelon, VC 0046
	Cucumis melo L., var. flexuosus (L.) Naudin.
-	Melon, Snake, see Melons, except Watermelon, VC 0046
	synonym of Melon, Serpent
-	Melon, Snap, see Melons, except Watermelon, VC 0046
	Acanthosicyos horridus Welw. Ex Benth. & Hook. f.
-	Melon, White-skinned, see Melons, except Watermelon, VC 0046
	Cultivars of Cucumis melo L. subsp. melo var. inodorus H. Jacq.
-	Melon, Winter, see Melons, except Watermelon, VC 0046
	synonym of Melons, White-skinned, see there
-	Muskmelon, see Melons, except Watermelon, VC 0046
	Cultivar of Cucumis melo L.; C. melo L. var. melo
-	Oriental melon, see Melons, except Watermelon, VC 0046
-	Pumpkin, see Pumpkins, VC 0429 or Winter squash, VC 0433
	Cucurbita pepo L.; C. pepo L. subsp. pepo
VC 0429	Pumpkins
	Mature cultivars of <i>Cucurbita maxima</i> Duchesne; <i>Cucurbita argyrosperma</i> C. Huber; <i>C. moschata</i> Duchesne; <i>C. pepo</i> L. subsp. <i>pepo</i> and <i>C. pepo</i> L., several cultivars
-	Silver Seed gourd, see Pumpkins, VC 0429
	Cucurbita argyrosperma C. Huber
-	Spaghetti squash, see Winter squash, VC 0433 or Pumpkins, VC 0429
	Cucurbita pepo subsp. pepo
-	Vine peach, see Melons, except Watermelon, VC 0046
	Cucumis melo L. subsp. agrestis (Naudin) Pangalo var. chito (C. Morren) Naudin
VC 0432	Watermelon
	Citrullus lanatus (Thunb.) Matsum. & Nakai var. lanatus
	Syn: C. vulgaris Schrad.; Colocynthis citrullus (L.) O. Ktze.
VC 2684	Wax gourd (mature fruit)
	Benincasa hispida (Thunb.) Cogn.;
	Syn: B. cerifera Savi
VC 0433	Winter squash
	Mature cultivars of <i>Cucurbita maxima</i> Duchesne; <i>C. maxima</i> subsp. <i>maxima</i> ; <i>C. moschata</i> Duchesne;. <i>C. pepo</i> (L.); <i>Cucurbita pepo</i> subsp. <i>pepo</i> and <i>Cucurbita pepo</i> var. <i>ovifera</i> (L.) Harz

FRUITING VEGETABLES, OTHER THAN CUCURBITS

Class A

Type 2 Vegetables Group 012 Group Letter Code VO

Group 012 Fruiting vegetables, other than Cucurbits are derived from the immature and mature fruits of various plants, usually annual vines or bushes. Many plants of this group belong to the botanical family Solanaceae.

This group does not include fruits of vegetables of the botanical family Cucurbitaceae or the pods of vegetables of the Leguminosae family.

The vegetables of this group are fully exposed to pesticides applied during the period of fruit development, except those of which the edible portion is covered by husks, such as ground cherries (Physalis spp.). The latter fruiting vegetables are protected from most pesticides by the husk except from pesticides with a systemic action.

The entire fruiting vegetable or the edible portion after discarding husks or peels may be consumed in a fresh form or after processing.

The group is divided into 3 subgroups:

Subgroup 012A Tomatoes

Subgroup 012B Pepper and pepper-like commodities

Subgroup 012C Eggplant and eggplant-like commodities

Portion of the commodity to which the MRL applies (and which is analysed): Whole commodity after removal of stems.

Group 012 Fruiting vegetables, other than Cucurbits

Code No. Commodity

VO 0050 Group of Fruiting vegetables, other than Cucurbits

(includes all commodities in this group)

Subgroup 12A Tomatoes

Code No.	Commodity
VO 2045	Subgroup of Tomatoes
	(includes all commodities in this subgroup)
-	Alkekengi, see Ground cherries, VO 0441
	Physalis alkekengi L.
VO 0451	Bush tomato
	Solanum centrale Black
-	Cape gooseberry, (Codex Stand. 226 – 2001), see Ground cherries, VO 0441
	Physalis peruviana L.
VO 2700	Cherry tomato
	Lycopersicon esculentum var. cerasiforme (Dunal) A. Gray
-	Chinese lantern plant, see Ground cherries, VO 0441
VO 2701	Cocona
	Solanum sessiliflorum Dunal.
VO 2702	Currant tomato
	Lycopersicon pimpinellifolium (L.) Mill.
VO 2703	Garden huckleberry
	Solanum scabrum Mill.

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VO 2704	Goji berry
	Lycium barbarum L.
-	Golden berry, see Ground cherries, VO 0441
	Physalis peruviana L.
VO 0441	Ground cherries
	Physalis alkekengi L.; Ph. ixocarpa Brot. ex Horn.; Ph. peruviana L.
-	Husk tomato, see Ground cherries, VO 0441
-	Naranjilla, see Group 006 Assorted tropical and sub-tropical fruits - inedible peel, FI 0349
	Solanum quitoense Lam.
-	Quito Orange, see Naranjilla, FI 0349
-	Strawberry tomato, see Ground cherries, VO 0441
VO 2705	Sunberry
	Solanum retroflexum Dunal.
VO 2706	Tomatillo
	Physalis philadelphica Lam.
	Syn. Physalis ixocarpa auct.
VO 0448	Tomato
	Lycopersicon esculentum Mill.;
	Syn: Solanum lycopersicum L.
-	Tree tomato , see Group 06 Assorted tropical and sub-tropical fruits – inedible peel, FI 0312

Subgroup 12B Pepper and pepper-like commodities

Code No.	Commodity
VO 0051	Subgroup of Peppers
	(includes all commodities in this subgroup)
-	Bird chili peppers, see Peppers, Chili, Vo 0444
	Capsicum Frutescens L.
-	Cherry pepper, see Peppers, Chili, VO 0444
	Capsicum annuum L., var. acumimata Fingerh.
-	Chili peppers, see Peppers, Chili, VO 0444
	Cluster pepper, see Peppers, Chili, VO 0444
	Capsicum annuum L., var. fasciculatum (Sturt.) Irish
-	Cone pepper, see Peppers, Chili, VO 0444
-	Lady's finger, see Okra, VO 0442
VO 2709	Martynia
	Proboscidea louisianica (Mill.) Thell.
VO 0442	Okra
	Abelmoschus esculentus (L.) Moench.
-	Paprika, see Peppers, Sweet, VO 0445
-	Peppers, bell, see Peppers, Sweet, VO 0445

VO 0444	Peppers, Chili
	Capsicum annuum L.; several pungent cultivars
-	Peppers, Long, see Peppers, Sweet, VO 0445
	Capsicum annuum L., var. longum (D. C.) Sendt.
VO 0445	Peppers, Sweet (including pimento or pimiento)
	Capsicum annuum, var. grossum (L.) Sendt. and var. longum (D. C.) Sendt.
-	Peppers, Sweet Piquante, see Peppers, Sweet, VO 0445
	Capsicum baccatum var. Piquanté
-	Pimento or Pimiento, see Peppers, Sweet, VO 0445
VO 0446	Roselle
	Hibicous cabdariffa L. var. sabdariffa L

Hibiscus sabdariffa L., var. sabdariffa L.

Subgroup 12C Eggplant and eggplant-like commodities

Code No.	Commodity
VO 2046	Subgroup of Eggplants
	(includes all commodities in this subgroup)
VO 2711	African Eggplant
	Solanum macrocarpon L.
-	Aubergine, see Eggplant, VO 0440
VO 0440	Eggplant, various cultivars
	Solanum melongena L.
-	Melon pear, see Pepino, VO 0443
VO 2712	Pea Eggplant
	Solanum torvum Swartz
VO 0443	Pepino
	Solanum muricatum L.
VO 2713	Scarlet Eggplant
	Solanum aethiopicum L.
VO 2714	Thai eggplant
	Solanum undatum Jacq. Non Lam.
-	Tree melon, see Pepino VO 0443

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.

The group is divided into 9 subgroups:

Subgroup 013A Leafy greens

Subgroup 013B Brassica Leafy vegetables

Subgroup 013C Leaves of root and tuber vegetables

Subgroup 013D Leaves of trees, shrubs and vines

Subgroup 013E Leafy aquatic vegetables

Subgroup 013F Witloof

Subgroup 013G Leaves of Cucurbitaceae

Subgroup 013H Baby leaves

Subgroup 013I Sprouts

<u>Portion of the commodity to which the MRL applies (and which is analysed):</u> 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 Group of Leafy vegetables

(includes all commodities in this group)

Subgroup 013A	Leafy greens
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Code No.	Commodity
VL 2050	Subgroup of Leafy greens
	(Includes all commoditie

(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

Tricizanthes cucumeria

VL 0520 Bambara groundnut leaves

Voandzeia subterranean (L.) Verdc.

VL 0640	Barley shoots
	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 annuum 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	Cosmos
	Cosmos caudatus Kunth
VL 0527	Cowpea leaves
	Vigna unguiculata (L.) Walp.
-	Crisphead lettuce, see Lettuce, Head, VL 0482
-	Cutting lettuce, see Lettuce, Leaf, VL 0483
VL 0474	Dandelion
	Taraxacum officinale F.H. Wigg. aggr.
VL 2754	Danggwi
	Angelica gigas Nakai
VL 2600	Daylily leaves
	Hemerocallis fulva L.
VL 0475	Dock
	Rumex patienta L.
VL 2755	Dolnamul
	Sedum sarmentosum Bunge
VL 2756	Ebolo
	Crassocephalum crepidioides (Benth.) S. Moore
VL 0476	Endive
	Cichorium endivia L.
-	Endive, broad or plain leaved, see Endive, VL 0476
	Cichorium endivia L., var. latifolium Lamarck
-	Endive, curled, see Endive, VL 0476
	Cichorium endivia L., var. crispum Lamarck
VL 0514	Fame flower
	Talinum fruticosum L. Juss.
-	Fennel leaves, see Group 027 Herbs

VL 0515	Feather cockscomb
	Glinus oppositifolius (L.) Aug. DC.
VL 2757	Glasswort, common
	Salicornia L.
VL 2758	Godeulppaegi
	Crepidiastrum sonchifolium (Bunge) Pak & Kawano
VL 2759	Gomchwi
	Ligularia fischeri Turcz.
-	Good King Henry, see Goosefoot leaves, VL 0477
	Chenopodium bonus-henricus L.
VL 0477	Goosefoot leaves
	Chenopodium spp.
-	Huauzontle, see Goosefoot leaves, VL 0477
	Chenopodium berlandieri Moq.
VL 2760	Iceplant
	Mesembryanthemum crystallinum L.
-	Italian corn salad, see corn salad, VL 0470
	Valerianella eriocarpa Desv.;
VL 2761	Japanese honewort
	Cryptotaenia japonica Hassk.
-	Jew mallow, see Jute, VL 2762
	Corchorus olitorius L.
VL 2762	Jute
	Corchorus spp.
-	Lambs lettuce, see Corn salad, VL 0470
	Valerianella locusta L.;
VL 2763	Lettuce, bitter
	Launaeaccornuta (Hochst. ex Oliv. & Hiern) C. Jeffrey
VL 0482	Lettuce, Head
	Lactuca sativa L., var. capitata
VL 0483	Lettuce, Leaf
	Lactuca sativa L., var. crispa L.;
-	Lettuce, Red, see Lettuce, Head, VL 0482
	Red cultivar of Lactuca sativa, var. Capitata
VL 2764	Mallow leaves
	Malva sylvestris L.
VL 0486	New Zealand spinach
	Tetragonia tetragonioides (Pallas) O. Kuntze;
\#. 0.465	Syn: <i>T. expansa</i> Murr.
VL 0488	Orach
	Atriplex hortensis L.

<u>Ι</u> ΙΕΙ 17/1 ΙΧ - ΑΡ	pendix viii
VL 0697	Peanut leaves
	Arachis hypogea L.
VL 2765	Perilla leaves
	Perilla frutescens (L.) Britton var. frutescens
VL 0490	Plantain leaves
	Plantago major L.
VL 2766	Polygonatum leaves
	Polygonatum odoratum (Mill.) Druce; Poligonatum spp.
VL 0492	Purslane
	Portulaca oleracea L., ssp. sativa (Haw) Celak.
VL 0493	Purslane, Winter
	Claytonia perfoliata Donn ex Willd.;
-	Red-leaved chicory, see Chicory leaves, VL 0469
VL 2767	Sanmaneul leaves
	Allium victorialis L.; Syn: A. ochotense Prokh.
	A. microdictyon Prokh.
-	Silver beet, see Chard, VL 0464
-	Slender amaranth, see Amaranth leaves, VL 0460
	Amaranthus viridis L.
VL 0501	Sowthistle
	Sonchus oleraceus L.
VL 0541	Soya bean leaves
	Glycine max (L.) Merr.
VL 2768	Spider plant
	Chlorophytum comosum (Thunb.) Jacques
VL 0502	Spinach
	Spinacia oleracea L.
-	Spinach beet, see Chard, VL 0464
VL 0503	Spinach, Indian
	Basella alba L.;
-	Spiny amaranth, see Amaranth leaves, VL 0460
	Amaranthus spinosus L.
-	Spleen amaranth, see Amaranth leaves, VL 0460
	Amaranthus dubius C. Mart. ex. Thell.
VL 2769	Seumbagwi
	Ixeridium dentatum (Thunb.)Tzvelev
-	Sugar loaf, see Chicory leaves, VL 0469
-	Swiss chard, see Chard, VL 0464
VL 2770	Tanier spinach
	Xanthosoma brasiliense (Desf.) Engl.
-	Tricolor chrysanthemum, see Chrysanthemum, Edible leaved, VL 2752
	Glebionis carinata (Schousb.) Tzvelev
-	Vine spinach, see Spinach, Indian, VL 0503

VL 2771	Violet, Chinese
	Asystasia gangetica (L.) T. Anderson
-	Warrigal greens, see New Zealand spinach, VL 0486
-	Young leaves of Wonchuri, see Daylily leaves, VL 2600
Subgroup 013B	Brassica leafy vegetables
Code No.	Commodity
VL 0054	Subgroup of Leaves of Brassicaceae
	Brassica spp.
	(Includes all commodities in this subgroup)
-	Amsoi, see Mustard greens, VL 0485
-	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, VL 0480
VL 0401	Broccoli, Chinese
	Brassica oleracea var. alboglabra (L.H. Bailey) Musil
VL 2775	Broccoli raab
	Brassica ruvo L.H. Bailey
VL 2776	Cabbage, Abyssinian
	Brassica carinata A. Braun
VL 2777	Cabbage, Seakale
	Brassica oleracea L. var. costada DC.
-	Celery mustard, see Chinese cabbage (type Pak-choi), VL 0466
VL 0466	Chinese cabbage (type Pak-choi)
	Brassica rapa subsp. chinensis (L.) Hanelt
VL 2778	Chinese flat cabbage
	Brassica rapa subsp. narinosa (L.H. Bailey) Hanelt
-	Chinese kale, see Broccoli, Chinese, VL 0401
-	Choisum, see Flowering white cabbage, VL 0468
-	Collards, see Kale, VL 0480
VL 0472	Cress, Garden
	Lepidium sativum L.; L. virginicum L.
VL 2779	Cress, Upland
	Barbarea vulgaris W.T. Aiton; B. Verna (Mill.) Asch.
-	Curly Kale, see Kale, VL 0480
-	Field mustard greens, see Rape greens, VL 0495
	Brassica napus L. subsp. trilocularis (Roxb.) Hanelt;
	Brassica napus L. subsp. dichotoma (Roxb.) Hanelt;
	Brassica napus L. subsp. oleifera Metzg.
-	Flowering Chinese cabbage, see Flowering white cabbage, VL 0468
VL 0468	Flowering white cabbage
	Brassica rapa L. Subsp. chinensis (L.) Hanelt var. Parachinensis (L.H. Bailey) Hanelt.

Garden cress, see Cress, Garden, VL 0472 VL 2780 Hanover salad Brassica napus var. pabularia (DC.) Rchb Indian mustard, see Mustard greens, VL 0485 Brassica juncea (L.) Czern. VL 0480 Kale (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) Brassica oleracea L., var. sabelica L. Kale, branching bush, see Kale, VL 0480 Brassica oleracea L., var. ramosa DC. L Kale, curly, see Kale, VL 0480 Brassica oleracea L., convar. acephala (D. C.) Alef., var. sabellica L. Kale, Jersey, see Kale, VL 0480 Brassica oleracea L., var. palmifolia DC. VL 0405 Kohlrabi leaves Brassica oleracea L var. gongylodes L. VL 0481 Komatsuna Brassica rapa L. var. perviridis L.H. Bailey Land cress, see Cress, Upland, VL 2779 B. Verna (Mill.) Asch. Leaf mustard, see Mustard greens, VL 0485 Brassica juncea (L.) Czern subsp. integrifolia (H. West) Thell. VL 2946 **Maca leaves** Lepidium meyenii Walp. VL 2781 Mizuna Brassica rapa L. subsp. nipposinica (L.H. Bailey) Hanelt VL 0485 **Mustard greens** Brassica juncea (L.) Czern Mustard, Indian, see Mustard greens, VL 0485 Mustard spinach, see Komatsuna, VL 0481 VL 2782 Mustard, tuberous rooted leaves, Chinese Brassica juncea (L.) Czern. Subsp. napiformis (Pailleux & Bois) Namenia, see Turnip greens, VL 0506 Oil radish greens, see Radish leaves, VL 0494 Raphanus sativus L var. oleiformis Pers. Pak-choi or Paksoi, see Chinese cabbage (type Pak-choi), VL 0466 Pak-tsoi or Pak-soi, see Chinese cabbage (type Pak-choi), VL 0466 Peppergrass, see Cress, garden, VL 0472 Lepidium virginicum L

VL 2783 Purple-stem mustard Brassica rapa subsp. chinensis (L.) Hanelt var. purpuraria (L.H. Bailey) Hanelt VL 0494 Radish leaves (including Radish tops) Raphanus sativus L., several varieties VL 0495 Rape greens Brassica napus Rat-tail radish greens, see Radish leaves, VL 0494 Raphanus sativus L var. mougri H.J.W. Helm Rocket salad, see Rucola, VL 0496 VL 0496 Rucola Eruca sativa Mill. VL 0497 Rutabaga greens Brassica napus L., var. napobrassica (L.) Rchb. VL 2784 Shepherd's purse Capsella bursa-pastoris (L.) Medik. VL 2785 Ssam cabbage Brassica rapa L. subsp. pekinensis (Lour.) Hanelt (non-head type) Tendergreen, see Turnip greens, VL 0506 Tsai shim, see Flowering white cabbage, VL 0468 Tsoi sum, see Flowering white cabbage, VL 0468 Turnip greens Brassica rapa L. subsp. rapa VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. Commodity Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
VL 0494 Radish leaves (including Radish tops) Raphanus sativus L., several varieties VL 0495 Rape greens Brassica napus Rat-tail radish greens, see Radish leaves, VL 0494 Raphanus sativus L var. mougri H.J.W. Helm Rocket salad, see Rucola, VL 0496 Rucola Eruca sativa Mill. VL 0497 Rutabaga greens Brassica napus L., var. napobrassica (L.) Rchb. VL 2784 Shepherd's purse Capsella bursa-pastoris (L.) Medik. VL 2785 Sam cabbage Brassica rapa L. subsp. pekinensis (Lour.) Hanelt (non-head type) Tendergreen, see Turnip greens, VL 0506 Tasi shim, see Flowering white cabbage, VL 0468 VL 0506 Turnip greens Brassica rapa L. subsp. rapa VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
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- Rocket salad, see Rucola, VL 0496 - Roquette, see Rucola, VL 0496 VL 0496 Rucola Eruca sativa Mill. VL 0497 Rutabaga greens Brassica napus L., var. napobrassica (L.) Rchb. VL 2784 Shepherd's purse Capsella bursa-pastoris (L.) Medik. VL 2785 Ssam cabbage Brassica rapa L. subsp. pekinensis (Lour.) Hanelt (non-head type) - Tendergreen, see Turnip greens, VL 0506 - Tsai shim, see Flowering white cabbage, VL 0468 - Tsoi sum, see Flowering white cabbage, VL 0468 VL 0506 Turnip greens Brassica rapa L. subsp. rapa VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Code No. Commodity VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
- Roquette, see Rucola, VL 0496 VL 0496 Rucola Eruca sativa Mill. VL 0497 Rutabaga greens Brassica napus L., var. napobrassica (L.) Rchb. VL 2784 Shepherd's purse Capsella bursa-pastoris (L.) Medik. VL 2785 Ssam cabbage Brassica rapa L. subsp. pekinensis (Lour.) Hanelt (non-head type) - Tendergreen, see Turnip greens, VL 0506 - Tsai shim, see Flowering white cabbage, VL 0468 - Tsoi sum, see Flowering white cabbage, VL 0468 VL 0506 Turnip greens Brassica rapa L. subsp. rapa VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. Commodity VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
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Tsoi sum, see Flowering white cabbage, VL 0468 VL 0506 Turnip greens Brassica rapa L. subsp. rapa VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
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VL 2786 Wasabi leaves Eutrema japponica (Miq.) Koidz. VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
VL 2787 Wild rocket Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
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Diplotaxis tenuifolia (L.) Rchb. Group 013C Leaves of root and tuber vegetables Code No. Commodity VL 2052 Subgroup of Leaves of root and tuber vegetables (Includes all commodities in this subgroup)	
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(Includes all commodities in this subgroup)	
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VL 2790 Alexanders leaves	
Smyrnium olusatrum L.	
VL 0573 Arrowroot leaves	
Maranta arundinacea L.; several cultivars	
- Beet leaves, see Chard, VL 0464	
VL 2940 Bell flower, Chinese leaves	
Platycodon grandiflorus (Jacq.) A. DC.	
- Blue ape leaves, see Tannia leaves, VL 0504	
Xanthosoma violaceum Schott	

VL 0463	Cassava leaves
	Manihot esculenta Crantz
-	Chinese yam, see Yam leaves, VL 0600
	Dioscorea polystachya Turcz.
-	Greater yam, see Yam leaves, VL 0600
	Dioscorea alata L.
-	Lesser yam, see Yam leaves, VL 0600
	Dioscorea esculenta (Lour.) Burkill
-	Mapuey, see Yam leaves, VL 0600
	Dioscorea trifida L.f.
VL 0592	Rampion leaves
	Campanula rapunculus L.
VL 0498	Salsify leaves
	Tragopogon porrifolium L.; Scorzonera hispanica L.
VL 0508	Sweet potato, leaves
	Ipomoea batatas (L.) Lam.
VL 0504	Tannia leaves
	Xanthosoma sagittifolium (L.) Schott;
	Syn: X. edule (Mey) Schott; X. xanthorrhizon (Jacq.);
	C. Koch; Arum sagittaefolium L.
VL 0505	Taro leaves
	Colocasia esculenta (L.) Schott
VL 0599	Ullucu leaves
	Ullucus tuberosus Caldas
VL 2795	Velvet plant leaves
	Gynura bicolor (Roxb. ex Willd.) DC.
-	White yam, see Yam leaves, VL 0600
	Dioscorea rotundata Poir.
VL 0600	Yam leaves
	Dioscorea spp.
-	Yellow yam, see Yam leaves, VL 0600
	Dioscorea cayenensis Lam.
Subgroup 013D	Leaves of trees, shrubs and vines
Code No.	Commodity
VL 2053	Subgroup of Leaves of trees, shrubs and vines
	(Includes all commodities in this subgroup)
VL 2810	Acacia shoots
	Acacia pennata (L.) Willd.
VL 2811	Ben moringa leaves
	Moringa oleifera Lam.
-	Eru leaves, see Okazi leaves, VL 2812

VL 0269	Grape leaves
	Vitis vinifera L.
-	Lead tree, see White lead tree, VL 2814
VL 0517	Melientha
	Melientha suavis Pierre
VL 2524	Monkey-bread tree leaves
	Adansonia digitata L.
VL 2812	Okazi leaves
	Gnetum africanum Welw; G. Buchholzianum Engl.
VL 0337	Papaya leaves
	Carica papaya L.
VL 0446	Roselle leaves
	Hibiscus sabdariffa L.
VL 3295	Sichuan pepper sprouts
	Zanthocylum simulans Hance
VL 2813	Toona sinensis
	Cedrela sinensis (A. Juss.) M. Roem.
VL 2814	White lead tree
	Leuceana leucocephala (Lam.) de Wit
Subgroup 013E	Leafy aquatic vegetables
Code No.	Commodity
Code No. VL 2054	Commodity Subgroup of Leafy aquatic vegetables
	Subgroup of Leafy aquatic vegetables
VL 2054	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup)
VL 2054	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung
VL 2054	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.;
VL 2054 VL 0507	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821
VL 2054 VL 0507	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover
VL 2054 VL 0507 - VL 2820	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl.
VL 2054 VL 0507 - VL 2820	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress
VL 2054 VL 0507 - VL 2820	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton
VL 2054 VL 0507 - VL 2820 VL 0473	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507
VL 2054 VL 0507 - VL 2820 VL 0473	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa
VL 2054 VL 0507 - VL 2820 VL 0473 - VL 0518	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa Neptunia Oleracea Lour. Water shield Brasenia schreberi J.F. Gmel.
VL 2054 VL 0507 - VL 2820 VL 0473 - VL 0518 VL 2821 -	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa Neptunia Oleracea Lour. Water shield Brasenia schreberi J.F. Gmel. Water spinach, see Kangkung, VL 0507
VL 2054 VL 0507 - VL 2820 VL 0473 - VL 0518 VL 2821 - Subgroup 013F	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa Neptunia Oleracea Lour. Water shield Brasenia schreberi J.F. Gmel. Water spinach, see Kangkung, VL 0507 Witloof
VL 2054 VL 0507 - VL 2820 VL 0473 - VL 0518 VL 2821 - Subgroup 013F Code No.	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa Neptunia Oleracea Lour. Water shield Brasenia schreberi J.F. Gmel. Water spinach, see Kangkung, VL 0507 Witloof Commodity
VL 2054 VL 0507 - VL 2820 VL 0473 - VL 0518 VL 2821 - Subgroup 013F	Subgroup of Leafy aquatic vegetables (Includes all commodities in this subgroup) Kangkung Ipomoea aquatica Forssk.; Sunchae, see Water shield, VL 2821 Water clover Marsilea crenata L. Presl. Watercress Nasturtium officinale W.T Aiton Water convolvulus, see Kangkung, VL 0507 Water mimosa Neptunia Oleracea Lour. Water shield Brasenia schreberi J.F. Gmel. Water spinach, see Kangkung, VL 0507 Witloof

Subgroup 013G	Leaves of Cucurbitaceae
Code No.	Commodity
VL 2056	Subgroup of 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 leaves
	Coccinia grandis (L.) Voigt
VL 2831	Kahurura
	Cucumis ficifolius A. Rich.

Subgroup 013H Baby leaves

VL 0429

Code No.CommodityVL 2057Baby leaves

(Baby crops, which are listed in the leafy vegetable group that are harvested up to 8

true leaf stage)

Pumpkin leaves

Cucurbita Moschata Duchesne

Subgroup 013I Sprouts

Code No.	Commodity
VL 2058	Subgroup of Sprouts
	(Includes all commodities in this subgroup)
VL 1020	Alfalfa sprouts
	Medicago sativa L
VL 0536	Mungbean sprouts
	Vigna radiata (L.) R. Wilczek var. radiata
VL 2835	Radish sprouts
	Raphanus sativus L., several varieties
VL 1265	Soya bean sprouts
	Glycine max (L.) Merr.

LEGUME VEGETABLES

Class A

Type 2 Vegetables Group 014 Group Letter Code VP

Group 014. Legume vegetables are derived from the succulent seed and immature pods of leguminous plants commonly known as beans and peas.

Pods are fully exposed to pesticides during the growing season, whereas the succulent seed is protected within the pod from most pesticides; except pesticides with systemic action and underground beans and peas.

The succulent forms may be consumed as whole pods or without pods. Immature soya bean is usually marketed and served with pods, but pods are not edible and only succulent seeds are eaten.

This group is divided into 5 subgroups:

Subgroup 14A Beans with pods

Subgroup 14B Peas with pods

Subgroup 14C Succulent beans without pods

Subgroup 14D Succulent peas without pods

Subgroup 14E Underground beans and peas

<u>Portion of the commodity to which the MRL applies (and which is analysed)</u>: **Whole commodity, unless otherwise specified.**

Group 014	Legume vegetables
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Code No. Commodity

VP 0060 Group of Legume vegetables

(includes all commodities in this group)

Subgroup 14A Beans with pods

Code No. Commodity

VP 2060 Subgroup of Beans with pods

(includes all commodities in this subgroup)

VP 0061 Beans with pods (*Phaseolus* spp.) immature pods and succulent seeds)

Asparagus bean (pods), see Yard-long bean, VP 0544

VP 2840 **Beans with pods (**Vigna spp.) (immature pods and succulent seeds)

- Asparagus pea (pods), see Goa bean, VP 0530

Black gram (immature pods), see Urd bean, VP 0521

Bonavist bean (immature pods and succulent seeds), see Lablab bean, VP 0531

VP 0522 **Broad bean** (immature pods and succulent seeds)

Vicia faba L. subsp. faba, var. faba

VP 2841 Catjang (immature pods and succulent seeds)

Vigna unguiculata (L.) Walp. subsp cylindrica (L.) Verdc.

Syn: Dolichos catjang Burm.

Chinese longbean, see Yard-long bean, VP 0544

Cluster bean (immature pods), see Guar, VP 0525

VP 0526 Common bean (poroto) (pods and succulent seeds)

Phaseolus vulgaris L., several cultivars

VP 0527	Cowpea (immature pods)
	Vigna unguiculata (L) Walp. subsp. unguiculata
-	Four-angled bean (immature pods), see Goa bean, VP 0530
-	French bean (immature pods and seeds), see Common bean (poroto) (pods and succulent seeds), VP 0526
-	Garden bean, see Common bean (poroto) (pods and succulent seeds), VP 0526
VP 0530	Goa bean (immature pods)
	Psophocarpus tetragonolobus (L.) DC.
-	Green bean (immature pods and succulent seeds), see Common bean (poroto) (pods and succulent seeds), VP 0526
-	Green gram (immature pods), see Mung bean, VP 0536
-	Green soya bean, see Soya bean (succulent seeds in pods), VP 0546
VP 0525	Guar (immature pods)
	Cyamopsis tetragonoloba (L.) Taub; Syn: C. psoralioides (lam.) DC.
-	Haricot bean (immature pods and succulent seeds), see Common bean (pods and succulent seeds), VP 0526
-	Hyacinth bean (immature pods and succulent seeds), see Lablab bean (pods and succulent seeds), VP 0531
VP 0532	Jack bean (immature pods and succulent seeds)
	Canavalia ensiformis (L.) DC.
-	Kidney bean (pods), see Common bean (poroto) (pods and succulent seeds), VP 0526
VP 0531	Lablab bean (pods and succulent seeds)
	Lablab purpureus (L.) Sweet spp. purpureus
	Syn: Dolichos lablab L.; Lablab niger Medik; L. vulgaris Savi
-	Manila bean (immature pods), see Goa bean (immature pods), VP 0530
-	Mat bean (immature pods), see Moth bean (immature pods), VP 0535
VP 0535	Moth bean (immature pods)
	Vigna aconitifolius (Jacq.) Verde.
	Syn: Phaseolus aconitifolius Jacq.; Ph. trilobus Ait;
VP 0536	Mung bean (immature pods)
	Vigna radiata (L.) Wilczek, var. radiata; Syn: Phaseolus aureus Roxb;
-	Navy bean (immature pods and/or succulent seeds), see Common bean (poroto) (pods and succulent seeds), VP 0526
-	Poroto (pods and succulent seeds), see Common Bean (poroto) (pods and succulent seeds), VP 0526
VP 0539	Rice bean (immature pods)
	Vigna umbellata (Thunb.) Ohwi eg Ohashi;
	Syn: V. calcarata (Roxb.) Kurz; Phaseolus calcaratus Roxb.
-	Runner bean, see Common bean (poroto) (pods and succulent seeds), VP 0526
VP 0540	Scarlet runner bean (pods and seeds)
	Phaseolus coccineus L.
-	Slicing bean, see Common bean (poroto) (pods and succulent seeds), VP 0526
-	Snap bean (immature pods), see Common bean (poroto) (pods and succulent seeds), VP 0526

VP 0546 Soya bean (succulent seeds in pods) Glycine max (L.) Merr.; VP 2842 Stink bean (pods and succulent seeds) Parkia speciosa Hassk. VP 0542 Sword bean (immature pods and beans) Canavalia gladiata (Jacq.) DC. VP 0521 **Urd bean** (immature pods) Vigna mungo (L.) Hepper var. mungo Syn: Phaseolus mungo L.; Vegetables soybean (edamame), see Soya bean (succulent seeds in pods), VP 0546 Wax bean, see Common bean (poroto) (pods and succulent seeds), VP 0526 Winged bean (immature pods), see Goa bean, VP 0530 VP 0544 Yard-long bean (pods) Vigna unguiculata subsp sesquipedalis (L.) Verdc. Peas with pods Subgroup 14B Code No. **Commodity** VP 2061 Subgroup of Peas with pods (includes all commodities in this subgroup) **VP 0063** Peas with pods (Pisum spp.)(pods and succulent seeds) Pisum spp. VP 0690 Ben Moringa (pods) Moringa oleifera Syn: Moriga pterygosperma. VP 0524 Chick-pea (immature pods) Cicer arietinum L. Dwarf pea, see pigeon pea with pods (immature pods), VP 0537 VP 0528 Garden pea (immature pods) Pisum sativum L. var. sativum VP 2860 Grass pea (immature pods) Lathyrus sativus L. VP 0533 Lentil (immature pods) Lens culinaris Medik subsp. culinaris Syn: Lens esculenta Moench.; Ervum lens L. Mangetout or Mangetout pea, see Podded pea, VP 0538 VP 0537 Pigeon pea (immature pods and young seeds) Cajanus cajan (L.) Millsp. Syn: C. indicus Spreng. VP 0538 Podded pea (immature pods) Pisum sativum L., subsp. sativum var. macrocarpon Ser.; P. sativum L., spp. sativum, var. sacharatum Red gram (immature pods and immature seeds), see Pigeon pea, VP 0537 Snow pea, see Pigeon pea (immature pods), VP 0537

Sugar pea (immature pods), see Podded pea, VP 0538

REP17/PR - Appendix VIII VP 0543 Winged pea (immature pods) Lotus tetragonolobus L. Syn: Tetragonolobus purpureus Moench Subgroup 14C Succulent beans without pods Code No. Commodity VP 2062 Subgroup of Succulent beans without pods (includes all commodities in this subgroup) VP 0062 Beans without pods (Phaseolus spp.) (succulent seeds) VP 2068 Beans without pods (Vigna spp.) (succulent seeds) Blackeyed peas (succulent seeds), see Cowpea (succulent seeds), VP 2846 Bonavist bean (succulent seeds), see Lablab bean, VP 2848 VP 0523 Broad bean, without pods (succulent seeds) Vicia faba L. subsp. faba, var. Faba VP 2844 Catjang (succulent seeds) Vigna unguiculata (L.) Walp. subsp cylindrica (L.) Verdc. Syn: Dolichos catjang Burm. Common bean (succulent seeds) VP 2845 Phaseolus vulgaris L., several cultivars VP 2846 Cowpea (succulent seeds) Vigna unguiculata (L) Walp. subsp. Unguiculata Fava bean (succulent beans), see Broad bean, without pods, VP 0523 Flageolet (succulent beans), see Common bean (succulent seeds), VP 2845 VP 2847 Goa bean (succulent seeds) Psophocarpus tetragonolobus (L.) DC. Hyacinth bean (succulent seeds), see Lablab bean (succulent seeds), VP 2848 VP 2853 Jack bean (succulent seeds) Canavalia ensiformis (L.) DC. VP 2848 Lablab bean (succulent seeds) Lablab purpureus (L.) Sweet spp. Purpureus Syn: Dolichos lablab L.; Lablab niger Medik; L. vulgaris Savi VP 0534 Lima bean (succulent seeds) Phaseolus lunatus L.; Syn: Ph. limensis Macf.; Ph. inamoenus L. VP 0545 Lupin Lupinus ssp, sweet spp., varieties and cultivars Mat bean (succulent seeds), see Moth bean (succulent seeds), VP 2849 VP 2849 Moth bean (succulent seeds) Vigna aconitifolius (Jacq.) Verde. Syn: Phaseolus aconitifolius Jacq.; Ph. trilobus Ait; VP 2850 Scarlet runner bean (succulent seeds) Phaseolus coccineus L.

Southern pea, see Cowpea (succulent seeds), VP 2846

Sieva bean (fresh beans), see Lima bean, VP 0534

REP17/PR - Appendix VIII VP 0541 Soya bean (succulent seeds) Glycine max (L.) Merr.; Soybean, see Soya bean (succulent seeds), VP 0541 VP 2851 Stink bean (succulent seeds) Parkia speciosa Hassk. VP 2852 Velvet bean Mucuna pruriens (L.) DC. Subgroup 14D Succulent peas without pods Code No. **Commodity** VP 2063 Subgroup of Succulent peas without pods (includes all commodities in this subgroup) VP 0064 Peas (Pisum spp.) without pods (succulent seeds) Pisum spp. Angola pea (succulent seeds), see Pigeon pea (succulent seeds), VP 2865 Cajan pea (succulent seeds), see Pigeon pea (succulent seeds), VP 2865 VP 2862 Chick-pea (succulent seeds) Cicer arietinum L. Garbanzos, see Chick-pea (succulent seeds), VP2862 VP 2863 Garden pea, (succulent seeds) Pisum sativum L. var. sativum Green pea, see Garden pea (succulent seeds), VP 2863 VP 2864 Lentil (succulent seeds) Lens culinaris Medik subsp. Culinaris Syn: Lens esculenta Moench.; Ervum lens L. VP 2865 Pigeon pea (succulent seeds) Cajanus cajan (L.) Millsp.; Syn: C. indicus Spreng. Red gram (succulent seeds), see Pigeon pea (succulent seeds), VP 2865 Wrinkled pea, see Garden pea (succulent seeds), VP 2863 Pisum sativum L., convar. medullare Subgroup 14E Underground immature beans and peas Code No. **Commodity** VP 2064 Subgroup of Underground immature beans and peas

(includes all commodities in this subgroup)

VP 0520 **Bambara groundnut** (immature seeds)

Vigna subterranea (L.) Verdc.

VP 0697 **Peanut** (immature seeds)

Arachis hypogaea L.

PULSES

Class A

Type 2 **Vegetables** Group 015 **Group Letter Code VD**

Group 015. Pulses are derived from the mature seeds, naturally or artificially dried, of leguminous plants known as beans (dry) and peas (dry). Pulses are dry seeds without the pods.

The seeds in the pods are protected from most pesticides applied during the growing season except pesticides which show a systemic action. The dry beans and peas however are often exposed to post harvest treatments.

The dry pulses are consumed after processing or household cooking.

The group is divided into 3 subgroups:

Subgroup 15A Dry beans

Subgroup 15B Dry peas

Subgroup 15C Dry Underground pulses

Portion of the commodity to which the MRL applies (and which is analysed): Whole commodity.

	Group	015	Pulses
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Code No. **Commodity** VD 0070 **Group of Pulses**

	(includes all commodities in this group)
Subgroup 015A	Dry beans
Code No.	Commodity
VD 2065	Subgroup of Dry beans
	(includes all commodities in this subgroup)
VD 0071	Beans (Phaseolus spp.) (dry)
	Phaseolus spp.; several species and cultivars
VD 2891	Beans (Vigna spp.) (dry)
	Vigna spp.; several species and cultivars
VD 0560	Adzuki bean (dry)
	Vigna angularis (Willd.) Ohwi & Ohashi
	Syn: Phaseolus angularis (Willd.) W. Wight;
VD 2890	African yam bean (dry)
	Sphenostylis stenocarpa (Hochst. Ex A. Rich.) Harms
-	Asparagus pea, see Goa bean (dry), VD 0530
-	Blackeyed pea, see Cowpea (dry), VD 0527
	Vigna unguiculata (L.) Walp. subsp. unguiculata
-	Black gram (dry), see Urd bean (dry), VD 0521
-	Black turtle beans, see Common bean, VD 0526
-	Bonavist bean (dry), see Lablab bean (dry), VD 0531
VD 0523	Broad bean (dry)
	Vicia faba L, subsp. faba, var. faba
	Syn: V. faba L. var. major (Harz) Beck
-	Butter bean (dry), see Lima bean (dry), VD 0534
-	Catjang (dry), see Cowpea, (dry), VD 0527

Syn: Dolichos catjang Burm.

Vigna unguiculata (L.) Walp. subsp. cylindrica (L.) Verdc.

VD 0526	Common bean (dry)
	Phaseolus vulgaris L.
VD 2892	Common vetch (dry)
	Vicia sativa L.
VD 0527	Cowpea (dry)
	Vigna unguiculata (L.) Walp;
	Syn: V. sinensis (L.) Savi ex Hassk.; Dolichos sinensis L.
-	Cranberry bean (dry), see Common bean (dry), VD 0526
-	Dwarf bean (dry), see Common bean (dry), VD 0526
-	Fava bean (dry), see Broad bean (dry), VD 0523
-	Field bean (dry), see Common bean (dry), VD 0526
-	Flageolet (dry), see Common bean (dry), VD 0526
-	French bean, see Group 014: Legume vegetables
VD 0530	Goa bean (dry)
	Psophocarpus tetragonolobus (L.) DC.
-	Gram (dry), see Chick-pea (dry), VD 0524
-	Green beans, see Group 014: Legume vegetables
-	Green gram (dry), see Mung bean (dry), VD 0536
VD 0525	Guar (dry)
	Cyamopsis tetragonoloba (L.) Taub;
	Syn: C. psoralioides (lam.) DC.
-	Haricot bean, see Group 014: Legume vegetables
-	Horse bean (dry), see Broad bean (dry), VD 0523
VD 0562	Horse gram (dry)
	Macrotyloma uniflorum (Lam.) Verdc.
	Syn: Dolichos uniflorus Lam.; D. biflorus auct. non L.
-	Hyacinth bean (dry), see Lablab bean (dry), VD 0531
VD 0532	Jack bean, (dry)
	Canavalia ensiformis (L.) DC.
-	Kidney bean (dry), see Common bean (dry), VD 0526
VD 0531	Lablab bean (dry)
	Lablab purpureus (L.) Sweet spp. purpureus
	Syn: Dolichos lablab L.; Lablab niger Medik; L. vulgaris Savi
VD 0534	Lima bean (dry)
	Phaseolus lunatus L.;
	Syn: Ph. limensis Macf.; Ph. Inamoenus L
VD 0545	Lupin (dry)
	Lupinus spp., sweet spp. varieties and cultivars
-	Mat bean (dry), see Moth bean (dry), VD 0535
VD 2893	Morama bean (dry)
	Tylosema esculentum (Burch.) A. Schreib.

VD 0535	Moth bean (dry)
	Vigna aconitifolius (Jacq.) Verde.
	Syn: Phaseolus aconitifolius Jacq.; Ph. trilobus Ait;
VD 0536	Mung bean (dry)
	Vigna radiata (L.) Wilczek, var. radiata;
	Syn: <i>Phaseolus aureus</i> Roxb;
-	Navy bean (dry), see Common bean (dry), VD 0526
-	Pinto bean (dry), see Common bean (dry), VD 0526
VD 0539	Rice bean (dry)
	Vigna umbellata (Thunb.) Ohwi & Ohashi;
	Syn: V. calcarata (Roxb.) Kurz; Phaseolus calcaratus Roxb.
	Runner bean, see Group 014: Legume vegetables
VD 0540	Scarlet runner bean (dry)
	Phaseolus coccineus L.
-	Sieva bean (dry), see Lima bean (dry), VD 0534
-	Southern pea, see Cowpea (dry), VD 0527
	Vigna unguiculata (L.) Walp. subsp. Unguiculata
VD 0541	Soya bean (dry)
	Glycine max (L.) Merr.;
-	Soya bean, black (dry), see Soya bean (dry), VD 0541
-	Soybean (dry), see Soya bean (dry), VD 0541
VD 2898	Sword bean (dry)
	Canavalia gladiata (Jacq.) DC.
VD 0564	Tepary bean (dry)
	Phaseolus acutifolius Gray, var. acutifolius
	Syn: Phaseolus acutifolius Gray, var. latifolius Freem.
VD 2894	Thick bean (dry)
	Vicia faba L. var. minuta (hort. Ex Alef.) Mansf.
VD 0521	Urd bean (dry)
	Phaseolus mungo L.;
	Syn: Vigna mungo (L.) Hepper
	Mucuna Pruriens (L.) DC.
VD 2852	Velvet bean (dry)
	Mucuna Pruriens (L.) DC.
VD 2895	Vetches (Vicia spp.) (dry)
-	White bean (dry), see Navy bean (dry)
VD 0543	Winged pea (dry)
	Lotus tetragonolobus L.
	Syn: Tetragonolobus purpureus Moench
VD 2896	Yardlong bean (dry)
-	Vigna unguiculata (L.) Walp. subsp. unguiculata forma group sesquipedalis

Subgroup 015B	Dry peas
Code No.	Commodity
VD 2066	Subgroup of Dry peas
	(includes all commodities in this subgroup)
VD 0072	Peas (Pisum spp.) (dry)
	Pisum spp. several species and cultivars
-	Angola pea (dry), see Pigeon pea (dry), VD 0537
-	Ben Moringa seed (dry), see Ben Moringa seed, Group 023: Oilseed
-	Cajan pea (dry), see Pigeon pea (dry), VD 0537
-	Chickling vetch (dry), see Grass-pea (dry), VD 2860
VD 0524	Chick-pea (dry)
	Cicer arietinum L.
VD 0561	Field pea (dry)
	Pisum sativum L., subsp. sativum var. arvense (L.) Poir.
	Syn: <i>Pisum arvense</i> L.
-	Garden pea, see Group 014: Legume vegetables
-	Gram (dry), see Chick-pea (dry), VD 0524
VD 2860	Grass-pea (dry)
	Lathyrus sativus L.
VD 0533	Lentil (dry)
	Lens culinaris Medik subsp. Culinaris
	Syn: Lens esculenta Moench.; Ervum lens L.
-	Pea (dry), Pisum sativum, see Field pea (dry) VD 0561
VD 0537	Pigeon pea (dry)
	Cajanus cajan (L.) Huth
	Syn: C. indicus Spreng.
-	Red gram (dry), see Pigeon pea (dry), VD 0537
-	Wrinkled pea (dry), see Field pea (dry), VD 0561
Subgroup 015C	Dry underground pulses
Code No.	Commodity
VD 2067	Subgroup of Dry underground pulses
	(includes all commodities in this subgroup)
VD 0520	Bambara groundnut (dry seed)
	Vigna subterranea (L.) Verde.;
	Syn: Voandzeia subterranea (L.) Thou.
-	Geocarpa groundnut or Geocarpa bean (dry), see Kersting's groundnut, VD 0563
-	Groundnut (dry), see Peanut, Group 023: Oilseed
VD 0563	Kersting's groundnut (dry)
	Macrotyloma geocarpum (Harms) Marcechal & Baudet;
	Syn: Kerstingiella geocarpa Harms.
-	Peanut (dry), see Peanut, Group 023: Oilseed

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 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.

The group is divided into 3 subgroups:

Subgroup 16A Root vegetables

Subgroup 16B Tuberous and corm vegetables

Subgroup 16C Aquatic root and tuber vegetables

<u>Portion of the commodity to which the MRL applies (and which is analysed)</u>: 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

Code No. Commodity

VR 0075 Group of Root and tuber vegetables

(includes all commodities in this group)

Subgroup 16A Root vegetables

Code No.	Commodity
VR 2070	Subgroup of Root vegetables
	(includes al commodities in this subgroup)
-	American Ginseng, see Ginseng, VR 0604
	Panax quinquefolius L.
VR 0574	Beetroot
	Beta vulgaris L., var. conditiva
VR 2940	Bellflower, Chinese
	Platycodon grandiflorus (Jacq.) A. DC.
-	Black caraway, see Caraway, black root, VR 2941
-	Black salsify, see Scorzonera, VR 0594
VR 0575	Burdock, greater or edible
	Arctium lappa L.;
	Syn: Lappa officinalis All.; L. major Gaertn.
VR 2941	Caraway, black root
	Bunium persicum (Boiss.) B. Fedtsch.
VR 0577	Carrot
	Daucus carota L.
VR 0578	Celeriac
	Apium graveolens L., var. rapaceum (Mill.) Gaudin
VR 0579	Chervil, Turnip-rooted

Chaerophyllum bulbosum L.

Cichorum intybus L. Chik, see Kudzu, VR 1024 Chinese radish, see Radish, Japanese, VR 0591 Daikon, see Radish, Japanese, VR 0591 VR 2942 Dandelion root Taraxacum officinale F.H. Wigg. Aggr. VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellitlower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Machirabilis expansa (Ruiz & Pav.) Standl. VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 VR 2949 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsip Pastinaca sativa L. VR 2950 Pencil ym Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604 Panax pseudoginseng Wall.	VR 0469	Chicory, roots
Chinese radish, see Radish, Japanese, VR 0591 Daikon, see Radish, Japanese, VR 0591 VR 2942 Dandelion root Taraxacum officinale F.H. Wigg. Aggr. VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellflower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parslip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Cichorum intybus L.
VR 2942 Dandelion root Taraxacum officinale F.H. Wigg. Aggr. VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellflower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Annedera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth Pseudoginseng, see Ginseng, VR 0604	-	Chik, see Kudzu, VR 1024
VR 2942 Dandellon root Taraxacum officinale F.H. Wigg. Aggr. VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellflower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Machiar vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth Pseudoginseng, see Ginseng, VR 0604	-	Chinese radish, see Radish, Japanese, VR 0591
VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellflower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	-	Daikon, see Radish, Japanese, VR 0591
VR 2943 Deodeok Codonopsis lanceolata (Siebold&Zucc.) Trautv. Doraji, see Bellflower, Chinese, VR 2940 VR 0604 Ginseng (CODEX STAN 295R-2009) Panax spp. VR 0583 Horseradish Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turrip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 2942	Dandelion root
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VR 0583 Horseradish	-	Doraji, see Bellflower, Chinese, VR 2940
VR 0583 Horseradish	VR 0604	Ginseng (CODEX STAN 295R-2009)
Armoracia rusticana Gaertn. et al Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Panax spp.
Syn: Cochlearia armoracia L.; Armoracia lapathifolia Gilib. ex Usteri Korean Ginseng, see Ginseng, VR 0604 Panax ginseng C.A. Mey. VR 1024 Kudzu Pueraria lobata (Willd.) Ohwi VR 2944 Ladybell root Adenophora triphylla DC.; Adenophora spp. VR 2945 Maca Lepidium meyenii Walp. VR 2946 Madeira vine Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 0583	Horseradish
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VR 2946 Anredera cordifolia (Ten.) Steenis VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 2945	Маса
VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Lepidium meyenii Walp.
VR 2947 Mauka Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 2946	Madeira vine
Mirabilis expansa (Ruiz & Pav.) Standl. VR 2948 Murnong Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Anredera cordifolia (Ten.) Steenis
VR 2948 Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 2947	Mauka
Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip. VR 2949 Mustard, tuberous rooted Chinese Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Mirabilis expansa (Ruiz & Pav.) Standl.
VR 2949 **Brassica juncea** (L.) Czern. subsp. napiformis** (Pailleux & Bois) Gladis** - **Oyster plant, see Salsify, VR 0498 VR 0587 **Parsley, Turnip-rooted** **Petroselinum crispum** (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 **Parsnip** **Pastinaca sativa L.** VR 2950 **Pencil yam** **Vigna lanceolata Benth.** - **Pseudoginseng, see Ginseng, VR 0604	VR 2948	Murnong
Passica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Microseris scapigera (Sol. ex A. Cunn.) Sch. Bip.
- Oyster plant, see Salsify, VR 0498 VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. - Pseudoginseng, see Ginseng, VR 0604	VR 2949	Mustard, tuberous rooted Chinese
VR 0587 Parsley, Turnip-rooted Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604		Brassica juncea (L.) Czern. subsp. napiformis (Pailleux & Bois) Gladis
Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	-	Oyster plant, see Salsify, VR 0498
VR 0588 Parsnip Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 0587	Parsley, Turnip-rooted
Pastinaca sativa L. VR 2950 Pencil yam Vigna lanceolata Benth. - Pseudoginseng, see Ginseng, VR 0604		Petroselinum crispum (Mill.) Nyman ex A.W. Hill var. tuberosum
VR 2950 Pencil yam Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604	VR 0588	Parsnip
 Vigna lanceolata Benth. Pseudoginseng, see Ginseng, VR 0604 		Pastinaca sativa L.
- Pseudoginseng , see Ginseng, VR 0604	VR 2950	Pencil yam
		Vigna lanceolata Benth.
Panax pseudoginseng Wall.	-	Pseudoginseng, see Ginseng, VR 0604
		Panax pseudoginseng Wall.

VR 0494	Radish
	Raphanus sativus L. var. sativus
VR 0590	Radish, Black
	Raphanus sativus L., subvar. niger Pers.
VR 0591	Radish, Japanese
	Raphanus sativus L., var. longipinnatus Bailey
VR 0592	Rampion roots
	Campanula rapunculus L.
-	Rutabaga, see Swede, VR 0497
-	Red beet, see Beetroot, VR 0574
VR 0498	Salsify
	Tragopogon porrifolius L.
-	Salsify, Black, see Scorzonera, VR 0594
VR 0593	Salsify, Spanish
	Scolymus hispanicus L.
VR 0594	Scorzonera
	Scorzonera hispanica L.
VR 0595	Skirret
	Sium sisarum L.
VR 0596	Sugar beet
	Beta vulgaris L., var. sacharifera;
	Syn: B. vulgaris L. var. altissima
VR 0497	Swede
	Brassica napus L., var. napobrassica (L.) Reichenbach
VR 2951	Ti palm
	Cordyline fruticosa (L.) A. Chev.
-	Turnip, see Swede, VR 0497
VR 0506	Turnip, Garden
	Brassica rapa L., var. rapa;
	Syn: B. campestris L., var. rapifera
-	Turnip, Swedish, see Swede, VR 0497
-	Vietnamese ginseng, see Ginseng VR 0604
	Panax vietnamensis Ha &Grusshv.

Subgroup 16B Tuberous and corm vegetables

Code No.	Commodity
VR 2071	Subgroup of Tuberous and corm vegetables
	(includes al commodities in this subgroup)
-	Achira, see Canna, edible, VR 0576
-	Ahipa, see Yam bean, VR 0601
	Pachyrhizus ahipa (Wedd.) Parodi
	Ajanhuiri, see Potato, VR 0589
	Solanum ajanhuiri Juz. &Bukasov

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VR 0570	Alocasia(corm)
	Alocasia macrorrhiza (L.) G Don.;
	A. indica (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: <i>C. eduli</i> s Ker. Gawl.
VR 0463	Cassava
	Manihot esculenta Crantz;
	Syn: M. aipi Pohl; M. ultissima Pohl; M. dulcis Pax; M. palmata MuellArg.
-	Cassava, Bitter, (CODEX STAN 300-2010), see Cassava, VR 0463
	Manihot esculenta Crantz, bitter cultivars
-	Cassava, Sweet, (CODEX STAN 238-2003), see Cassava, VR 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
-	Chufa, see Tiger nut, VR 0580
-	Ckaisalla, see Potato, VR 0589
	Solanum juzepczukii Bukasov
-	Cocoyam, see 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 2978	Giant swamp taro
	Cytosperma chamissonis (Schott) Merr.
	Syn: C. merkusii (Hassk.) Schott
-	Giant taro, see Alocasia (corm), VR 0570
VR 0530	Goa bean root
	Psophocarpus tetragonolobus (L.) DC.
-	Gruya, see Canna, edible, VR 0576
-	Hausa potato, see Chinese potato, VR 2973
-	laraj, see Giant swamp taro, VR 2978
-	Japanese artichoke, see Chinese artichoke, VR 0584
VR 0585	Jerusalem artichoke
	Helianthus tuberosus L.
-	Jicama, see Yam bean, VR 0601
VR 2979	Kaffir potato
	Plectranthus esculenthus N.E. Br
-	Kape, see Alocasia (corm), VR 0570
VR 2980	Konjac
	Amorphophallus konjac K. Koch
-	Kötak, see Taro, VR 0505
-	Kumara, see Sweet potato, VR 0508
-	Leren, see Arrowroot, Guinea, VR 0598
-	Manioc, see Cassava, VR 0463
VR 2981	Mashua
	Tropaeolum tuberosum Ruiz & Pav.
VR 0586	Oca
	Oxalis tuberosa Mol.
VR 2982	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
-	Talo futuna, see Taro, VR 0505
-	Tanier, see Tannia, VR 0504
VR 0504	Tannia (CODEX STAN 224-2001)
	Xanthosoma sagittifolium (L.) Schott;
	X. violaceum Schott.
-	Tapioca, see Cassava, VR 0463
VR 0505	Taro
	Colocasia esculenta (L.) Schott, var. esculenta
-	Taro tarua, seeTannia, VR 0504
VR 0580	Tiger nut
	Cyperus esculentus L.
-	Topeetambu, see Arrow root, Guinea, VR 0598
-	Ufi, see Yams, VR 0600
VR 0599	Ullucu
	Ullucus tuberosus Caldas
-	Winged bean root, see Goa bean root, VR 0530
VR 2983	Yacon
	Smallanthus sonchifolius (Poepp. & Endl.) H. Rob.
	Syn: <i>Polymnia sonchifolia</i> 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: <i>D. opposita</i> 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

Subgroup 16C Aquatic root and tuber vegetables

Code No. Commodity

VR 2072 Subgroup of Aquatic root and tuber vegetables

(includes all commodities in this subgroup)

VR 0572 Arrowhead

Sagittaria sagittifolia L.; S. latifolia Willd.;

VR 3000 Cattail

Typha latifolia L.

VR 3001 Chinese water chestnut

Eleocharis dulcis (Burm. f.) Trin. ex Hensch.

VR 3002 Lotus tuber

Nelumbo nucifera Geartn.

VR 3003 Olbanggae

Eleocharis kuroguwai Ohwi

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.

The group is divided into 3 subgroups:

Subgroup 17A Stalk and stem vegetables - Stems and Petioles subgroup

Subgroup 17B Stalk and stem vegetables - Young shoots subgroup

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

Code No.	<u>Commodity</u>

VS 0078 Group of Stalk and stem vegetables

(includes all commodities in this group)

Subgroup 017A	Stalk and stem vegetables - Stems and Petioles
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Subgroup 017A	Staik and Stein vegetables - Steins and Fetibles
Code No.	Commodity
VS 2080	Subgroup of Stems and petioles
	(Includes all commodities in this subgroup)
VS 3020	Burdock, edible tops
	Articum lappa L.
VS 0623	Cardoon
	Cynara cardunculus L.
VS 0624	Celery
	Anium graveolens L var dulce

Apium graveolens L., var. dulce

Celery leaves, see Group 027: Herbs

VS 0625 Celtuce

> Lactuca sativa L., var. angustina Irish; Syn: L. sativa L., var. asparagina Bailey

VS 0380 Fennel, Bulb

Foeniculum vulgare Mill. subsp. vulgare var. azoricum (Mill.) Thell-

Fennel, Florance, see Fennel, bulb, VS 0380

Fuki, see Giant butterbur, VS 3021

VS 3021 **Giant butterbur**

Petasites japonicus (Siebold & Zucc.) Maxim

VS 0627 Rhubarb

Rheum x hybridum Murray

VS 0508 Sweet potato, stems

Ipomoea batatas (L.) Lam.

VS 0505 Taro stems

Colocasia esculenta (L.) Schott

VS 3022 Zuiki

Colocasia gigantea (Blume) Hook. f.

Subgroup 017B Stalk and stem vegetables - Young shoots

Code No. Commodity

VS 2081 Subgroup of Young shoots

(Includes all commodities in this subgroup)

VS 3025 Agave

Agave spp.

VS 0621 Asparagus

Asparagus officinalis L.

VS 0622 Bamboo shoots

Arundinaria spp.; Bambusa spp. including B. blumeana; B. multiplex; B. oldhamii; B. textilis; Chimonobambusa spp.; Dendrocalamus spp., including D. asper, D. beecheyana; D. brandisii; D. giganteus; D. laetiflorus and D. strictus; Gigantochloa spp. including G. albociliata; G. atter; G. levis; G.robusta; Nastus elatus; Phyllostachys spp.; Thyrsostachys siamensis; Thyrsostachys oliverii (Poaceae (alt.

Gramineae))

VS 3026 **Dokhwal shoot**

Aralia continentalis Kitag.

VS 3027 **Dureup young shoot**

Aralia elata (Miq.) Seem.

VS 3028 Eumnamu shoot

Kalopanax septemlobus (Thunb.ex A Murr.) Koidz.

VS 3029 Ferns, edible

Including: Black lady fern, *Deparia japonica* (Thunb.) M. Kato; Bracken fern, *Pteridium aquilinum* (L.) Kuhn; Broad buckler fern, *Dryopteris dilatata* (Hoffm.) A. Gray; Cinnamon fern, *Osmundastrum cinnamomeum* (L.) C. Presl; Lady fern, *Athyrium filix-femina* (L.) Roth ex Mert.; Leather fern, *Acrostichum aureum* L.; Mother fern, *Diplazium proliferum* (Lam.) Thouars; Ostrich fern, *Matteuccia struthiopteris* (L.) Tod.; Vegetable fern, Diplazium proliferum (Data) Surv. Zaponi fern, Ostropala inspario Thurb

Diplazium esculentum (Retz.) Sw.; Zenmai fern, Osmunda japonica Thunb.

VS 0499 Kale, sea

Crambe maritima L.

VS 3030 Udo

Aralia cordata Thunb.

Subgroup 017C Stalk and stem vegetables - Others

Code No. Commodity

VS 2082 Subgroup of Other stalk and stem vegetables

(Includes all commodities in this subgroup)

VS 0620 Artichoke, globe

Cynara scolymus L.

Minari, see water-celery, VS 3035

VS 0626 Palm hearts

various species including: Peach Palm, *Bactris gasipaes* Kunth; Palmyra palm, *Borassus flabellifera* L.; African fan palm, *Borassus aethiopum* Mart.; Coconut, *Cocos nucifera* L.; Cabbage palm, *Euterpe oleracea* Mart.; Wine palm, *Raphia* spp.; Royal palm, *Roystonea oleracea* (Jacq.) O.F. Cook; Salak palm, *Salacca zalacca* (Gaertn.) Voss; Saw palmetto, *Serenoa repens* (W. Bartram) Small; Cabbage palmetto, Sabal palmetto (Walter) Schult. & Schult. f., (Arecaceae (alt. Palmae))

VS 0356 Prickly pear pads

Opuntia ficus-indica (L.) Mill.

VS 3035 Water-celery

Oenanthe javanica (Blume) de Candolle

EDIBLE FUNGI

Class A

Type 1 Vegetables Group 18 Group Letter Code VF

Edible Fungi are derived from lower plants. The fruiting bodies could be fully exposed to pesticides during the growing season.

The entire fruiting body may be consumed in a succulent or processed form.

<u>Portion of commodity to which the MRL applies (and which is analysed):</u> Whole commodity after removal of soil and growing medium

Group 18	Edible Fungi
Code No.	<u>Commodity</u>
VF 2084	Group of Edible fungi
	Various edible species of fungi, wild and cultivated.
VF 0449	Fungi, Edible, except Mushrooms
	According to Codex Stand. 38-1981: various edible species of fungi, mainly wild, among others <i>Boletus edulis</i> ; other <i>Boletus</i> spp, <i>Morchella</i> spp, <i>Pleurotus ostreatus</i>
-	Bearded tooth, see Pom pom, VF 3065
-	Beech mushroom, see Bunashimeji, VF 3052
VF 3050	Black poplar mushroom
	Agrocybe aegerita (V. Brig.) Singer
VF 3051	Blewitt
	Lepista nuda (Bull.) Cooke
VF 3052	Bunashimeji
	Hypsizygus marmoreus (Peck) H.E. Bigelow, H. tessulatus (Bull.) Singer
VF 3053	Cauliflower mushroom
	Sparassis crispa (Wulfen) Fr.
VF 3054	Сер
	Boletus edulis Bull. and other Boletus spp.
VF 3055	Chanterelle
	Cantharellus cibarius Fr. (Codex Stand. 40-1981)
VF 3056	Enoke
	Flammulina velutipes (curtis) Singer
-	Enoki mushroom, see Enoke, VF 3056
-	Hen-of-the-Woods mushroom, see Maitake, VF 3059
VF 3057	Hirmeola
	Auricularia auricular-judea (Fr.) J. Schröt (Syn. Auricularia auricular (Hook.f.)Underw.)
VF 3058	Ink mushroom
	Coprinus comatus (O.F. Müll.) Persoon
-	Jews ear mushroom, see Hirmeola, VF 3057
-	Lion's mane mushroom, see Pom pom, VF 3065
VF 3059	Maitake
	Grifola frondosa (Dicks) Gray

	ppendix viii
VF 3060	Morel
	Morchella spp.
VF 0450	Mushrooms
	Cultivated cultivars of <i>Agaricus spp</i> . (included Royal sun agaricus = Hime-Matsutake (<i>Agaricus brasiliensis</i>), Rodman's agaricus, White button mushroom) Syn: Psalliota spp., mainly <i>Agaricus bisporus</i> (definition Codex Stand. 55-1981)
VF 3061	Nameko
	Pholiota nameko (T. Ito) S. Ito & S. Imai and other Pholiota spp.
VF 3062	Net bearing Dictyophora
	Phallus impudicus L.
-	Oakwood mushroom, see Shiitake mushroom, VF 3067
VF 3063	Oyster mushroom
	Pleurotus ostreatus (Jacq.) P. Kumm and other Pleurotus spp., including greyoyster mushroom, abalone mushroom
-	Paddy straw mushroom, see Straw mushroom, VF 3069
VF 3064	Pine mushroom
	Tricholoma matsutake (S. Ito & Imai) Singer
VF 3065	Pom pom
	Hericum erinaceus (Bull.) Pers.
VF 3066	Reishi mushroom
	Ganoderma lucidum (Curtis) P. Karst. and other Ganoderma spp.
VF 3067	Shiitake mushroom
	Lentinula edodes (Berk.) Pegler
VF 3068	Shimeji
	Lyophyllum fumosum (Pers.) P.D. Orton (Syn: Tricholoma conglobatum(Vitt.) Ricken) and other Lyophyllum spp.
-	Slimy mushroom, see Nameko, VF 3061
VF 3069	Straw mushroom
	Volvariella volvacea (Bull.) Singer
VF 3070	Stropharia
	Stropharia spp.
	Stropharia rugosoannulata Farl. ex Murrill
VF 3071	Truffle
	Tuber spp.
VF 3072	Wangsongi
	Macrocybe gigantea (Massee) Pegler & Lodge
	(syn: <i>Tricholoma giganteum</i> Massee)
-	Winter mushroom, see Enoke, VF 3056
VF 3073	White jelly mushroom
	Tremella fuciformis Berk.
VF 3074	Wood ears mushroom,
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Auricularia polytricha (Mont.)Sacc.

Appendix VIII

Part B

PROPOSED DRAFT TABLE 2 ON EXAMPLES OF SELECTION OF REPRESENTATIVE COMMODITIES (VEGETABLE COMMODITY GROUPS)

for inclusion in the *Principles* and *Guidance* for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides for Commodity Groups (CAC/GL 84-2012)

(For adoption at Step 5/8)

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Group 009 Bulb vegetables	Bulb onion and Spring onion or leek	Bulb vegetables (VA 0035): Chives; Chives, Chinese; Daylilly; Elegans hosta; Fritillaria (bulb); Fritillaria (green); Garlic; Garlic chives; Garlic, Great-headed; Garlic, Serpent; Kurrat; Lady's leek; Leek; Lily; Onion, Beltsville bunching; Onion, Bulb; Onion, Chinese; Onion, fresh; Onion macrostem; Onion, pearl; Onion, potato; Onion, Welsh; Shallot; Silverskin onion; Spring onion; Tree onion; Wild leek
Subgroup 009A, Bulb Onions	Bulb onion	Bulb Onions (VA 2031): Daylilly; Fritillaria (bulb); Garlic; Garlic, Great-headed; Garlic, Serpent; Lily; Onion, Bulb; Onion, Chinese; Shallot; Silverskin onion
Subgroup 009B, Green Onions	Spring onion or leek	Green Onions (VA 2032): Chives; Chives, Chinese; Elegans hosta; Fritillaria (green); Garlic chives; Kurrat; Lady's leek; Leek; Onion, Beltsville bunching; Onion, fresh; Onion macrostem; Onion, pearl; Onion, potato; Onion, Welsh; Spring onion; Tree onion; Wild leek
Group 010 Brassica vegetables (except Brassica leafy vegetables)	Broccoli (Could be partly replaced by Cauliflower) and Cabbage, Head or Chinese cabbage (type Pe-tsai) and Brussels sprouts and Kohlrabi	Brassica vegetables (except Brassica leafy vegetables), Flowerhead cabbages (VB0040): Broccoli; Brussels sprouts; Cabbages, Head; Chinese cabbage (type Pe-tsai); Cauliflower; Kohlrabi; Stem mustard
Subgroup 010A, Flowerhead Brassicas	Broccoli (Could be partly replaced by Cauliflower)	Flowerhead Brassicas (VB 0042): Broccoli; Cauliflower
Subgroup 010B, Head Brassicas	Cabbage, Head or Chinese cabbage (type Pe-tsai) and Brussels sprouts	Head Brassicas (VB 2036): Brussels sprouts; Cabbages, Head; Chinese cabbage (type Petsai)
Subgroup 010C, Stem Brassicas	Kohlrabi	Stem Brassicas (VB 2016): Kohlrabi; Stem mustard

¹ Alternative representative commodities may be selected based on documented regional/country differences in dietary consumption and/or areas of production.

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Group 11 Fruiting vegetables, Cucurbits	Cucumber and Squash, Summer and/or gourd and Melon (Cucumis melo)	Fruiting vegetables, Cucurbits (VC 0045): African horned melon; Balsam apple; Bitter melon; Bottle gourd; Casabanana; Chayote; Chieh-qua; Chinese cucumber; Cucumber; Cucumber, exploding; Cucumber, stuffing; Gac; Gherkin; Gherkin, West Indian; Gourd, bitter snake; Gourd, buffalo; Gourd, fluted; Gourd, Malabar; Gourds, other; Gourd, pointed; Gourd, round; Indian spine gourd; Ivy gourd; Japanese snake gourd; Loofah, angled; Loofah, Smooth; Melons, except watermelon; Melon, nara; Pumpkins; Snake gourd; Squash, Summer; Tacaco; Watermelon; Wax gourd (mature fruit); Winter squash
Subgroup 11A, Fruiting vegetables, Cucurbits - Cucumber and Summer squashes	Cucumber and Squash, Summer and/or gourd	Fruiting vegetables, Cucurbits - Cucumber and Summer Squashes (VC 2039): Balsam apple; Bitter melon; Bottle gourd; Chayote; Chieh-qua; Chinese cucumber; Cucumber; Cucumber, exploding; Cucumber, stuffing; Gac; Gherkin; Gherkin, West Indian; Gourd, bitter snake; Gourd, buffalo: Gourd fluted; Gourd, Malabar; Gourds, other; Gourd, pointed; Gourd, round; Indian spine gourd; Ivy gourd; Japanese snake gourd; Loofah, Angled; Loofah, Smooth; Snake gourd; Squash, Summer; Tacaco
Subgroup 11B, Fruiting vegetable, Cucurbits - Melons, Pumpkins and Winter Squashes	Melon (Cucumis melo)	Fruiting vegetables, Cucurbits Cucurbits - Melons, Pumpkins and Winter Squashes (VC 2040): African horned melon; Casababana; Melons, except Watermelon; Melon, nara; Pumpkins; Watermelon; Wax gourd (mature Fruit); Winter squash
Group 012 Fruiting vegetables, other than Cucurbits	One cultivar of large variety Tomato and one cultivar of small variety Tomato and Sweet Pepper and Chili pepper and One cultivar of large variety eggplant and/or tomato and one cultivar of small variety eggplant and/or tomato	Fruiting vegetables, other than Cucurbits (VO 0050): African eggplant; Bush tomato; Cherry tomato; Cocona; Currant tomato; Eggplant; Garden huckleberry; Goji berry; Ground cherries, Martynia; Okra; Pea eggplant; Pepino; Peppers, Chili; Peppers, sweet; Roselle; Scarlet eggplant; Sunberry; Tomatillo; Tomato; Thai eggplant
Subgroup 12A, Tomatoes	One cultivar of large variety Tomato and one cultivar of small variety Tomato	Tomatoes (VO 2045): Bush tomato; Cherry tomato; Cocona; Currant tomato; Garden huckleberry; Goji berry; Ground cherries; Sunberry; Tomatillo; Tomato
Subgroup 12B, Pepper and pepper-like commodities	Sweet Pepper and Chili pepper	Peppers (VO 0051): Martynia; Okra; Peppers, Chili; Peppers, sweet; Roselle;

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Subgroup 12C, Eggplant and eggplant-like commodities	One cultivar of large variety eggplant and/or tomato and one cultivar of small variety eggplant and/or tomato	Eggplants (VO 2046): African eggplant; Eggplant; Pea eggplant; Pepino; Scarlet eggplant; Thai eggplant
Group 013 Leafy vegetables (including Brassica leafy vegetables)	Head lettuce and/or Leaf lettuce and Spinach and Mustard greens or Kale or Broccoli, Chinese or radish leaves and Sweet potato leaves or Arrowroot leaves and Grape leaves and Kangkung or Water mimosa or Watercress and Witloof chicory (sprouts) and Chayote leaves or Pumpkin leaves and Leaf lettuce or any crop intended to use as baby leaves (harvested up to 8 true leaf stage) and Mungbean sprouts	Leafy vegetables (including Brassica leafy vegetables) (VL 0053): Acacia shoots; African Egplant leaves; African nightshade; Agretti; Alexanders leaves; African nightshade; Agretti; Alexanders leaves; Alfalfa sprouts; Amaranth leaves; Arrowroot leaves; Aster, Indian; Ayoyo; Baby leaves; Balsam pear leaves; Bambara groundnut leaves; Barley shoots; Bell flower, Chinese leaves; Ben moringa leaves; Bitawiri; Bitter leaf; Blackjack; Boxthorn; Broccoli, Chinese; Broccoli raab; Cabbage, Abyssinian; Cabbage, Seakale; Cassava leaves; Cat's Wiskers; Chamchwi; Chamnamul; Chamssuk; Chard; Chayote leaves; Chervil; Chicory leaves; Chili pepper leaves; Chinese cabbage (type Pak-choi); Chinese flat cabbage; Chipilin; Cress, Garden; Cress, Upland; Chrysanthum, edible leaved; Common bean leaves; Corn salad; Cos lettuce; Cosmos; Cowpea leaves; Dandelion; Danggwi; Daylily leaves; Dock; Dolnamul; Ebolo; Endive; Fame flower; Feather cockscomb; Flowering white cabbage; Glasswort, common; Godeulppaegi; Gomchwi; Goosefoot leaves; Grape leaves; Hanover salad; Iceplant; Ivy gourd leaves; Japanese honewort; Jute; Kahurura; Kangkung; Kale; Kohlrabi leaves; Komatsuna; Lettuce, bitter; Lettuce, Head; Lettuce, Leaf; Maca leaves; Mallow leaves; Melientha; Mizuna; Monkey-bread tree leaves; Mungbean sprouts; Mustard greens; Mustard, tuberous rooted leaves, Chinese; New Zealand spinach; Okazi leaves; Orach; Papaya leaves; Peanut leaves; Perilla leaves; Plantain leaves; Polygonatum leaves; Pumpkin leaves; Purplestem mustard; Purslane; Purslane, Winter; Radish leaves; Radish sprouts; Rampion leaves; Soya bean sprouts; Roselle leaves; Rucola; Rutabaga greens; Salsify leaves; Sanmaneul leaves; Soya bean sprouts; Soya bean leaves; Polygonating spous; Sichuan pepper sprouts; Sowthistle; Soya bean leaves; Rucola; Rutabaga greens; Calsify leaves; Soya bean sprouts; Soya bean sprouts; Sipider plant; Spinach; Spinach, Indian; Sam cabbage; Seumbagwi; Sweet potato, leaves; Tanier spinach; Tannia leaves; Hullicu leaves; Volet plant leaves; Violet, Chinese; Wa

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Subgroup 013A, Leafy greens	Head lettuce and/or Leaf lettuce and Spinach	Leafy greens (VL 2050): African Eggplant leaves; African nightshade; Agretti; Amaranth leaves; Aster, Indian; Ayoyo; Bambara groundnut leaves; Barley shoots; Bitawiri; Bitter leaf; Blackjack; Boxthorn; Cat's Whiskers; Chamchwi; Chamnamul; Chamssuk; Chard; Chervil; Chicory leaves; Chili pepper leaves; Chipilin; Chrysanthum, edible leaved; Common bean leaves; Corn salad; Cos lettuce; Cosmos; Cowpea leaves; Dandelion; Danggwi; Daylily leaves; Dock; Dolnamul; Ebolo; Endive; Fame flower; Feather cockscomb; Glasswort, common; Godeulppaegi; Gomchwi; Goosefoot leaves; Iceplant; Japanese honewort; Jute; Lettuce, bitter; Lettuce, Head; Lettuce, Leaf; Mallow leaves; New Zealand spinach; Orach; Peanut leaves; Perilla leaves; Plantain leaves; Polygonatum leaves; Purslane; Purslane, Winter; Sanmaneul leaves; Sowthistle; Soya bean leaves; Spider plant; Spinach; Spinach, Indian; Seumbagwi; Tanier spinach; Violet, Chinese
Subgroup 013B, Brassica leafy vegetables	Mustard greens or Kale or Broccoli, Chinese, or radish leaves	Leaves of Brassicaceae (VL 0054): Broccoli, Chinese; Broccoli raab; Cabbage, Abyssinian; Cabbage, Seakale; Chinese cabbage (type Pakchoi); Chinese flat cabbage; Cress, Garden; Cress, Upland; Flowering white cabbage; Hanover salad; Kale; Kohlrabi leaves; Komatsuna; Maca leaves; Mizuna; Mustard greens; Mustard, tuberous rooted leaves, Chinese; Purple-stem mustard; Radish leaves; Rape greens; Rucola; Rutabaga greens; Shepherd's purse; Ssam cabbage; Turnip greens; Wasabi leaves; Wild Rocket
Subgroup 013C, Leaves of root and tuber vegetables	Sweet potato leaves or Arrowroot leaves	Leaves of root and tuber vegetables (VL 2052): Alexanders leaves; Arrowroot leaves; Bell flower, Chinese leaves; Cassava leaves; Rampion leaves; Salsify leaves; Sweet potato, leaves; Tannia leaves; Taro leaves; Ullucu leaves; Velvet plant leaves; Yam leaves
Subgroup 013D, Leaves of trees, shrubs and vines	Grape leaves	Leaves of trees, shrubs and vines (VL 2053): Acacia shoots; Ben moringa leaves; Grape leaves; Melientha; Monkey-bread tree leaves; Okazi leaves; Papaya leaves; Roselle leaves; Sichuan pepper sprouts; Toona sinensis; White lead tree
Subgroup 013E, Leafy aquatic vegetables	Kangkung or Water mimosa or Watercress	Leafy aquatic vegetables (VL 2054): Kangkung; Water clover; Watercress; Water mimosa; Water shield
Subgroup 13 F, Witloof	Witloof chicory (sprouts)	Witloof chicory sprouts (VL 2832): Witloof chicory (sprouts)

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Subgroup 13 G, Leaves of Cucurbitaceae	Chayote leaves or Pumpkin leaves	Leaves of Cucurbitaceae (VL 2056): Balsam pear leaves; Chayote leaves; Ivy gourd leaves; Kahurura; Pumpkin leaves
Subgroup 13 H, Baby leaves	Leaf lettuce or any crop intended to use as baby leaves (harvested up to 8 true leaf stage)	Baby leaves (VL 2057): Baby leaves
Subgroup 13 I, Sprouts	Mungbean sprouts	Sprouts (VL 2058): Alfalfa sprouts; Mungbean sprouts; Radish sprouts; Soya bean sprouts
Group 14 Legume vegetables	Beans with pods (<i>Phaseolus</i> spp.) and/or Peas with pods (Garden pea or podded pea) and Succulent beans without pods (<i>Phaseolus</i> spp.) and Garden pea and Bambara groundnut (immature seeds)	Legume vegetables (VP 0060): Beans with and without pods (<i>Phaseolus</i> spp.); Beans with and without pods (<i>Vigna</i> spp.); Bambara groundnut; Ben moringa; Broad bean; Broad bean; Catjang; Chick-pea; Common bean (poroto); Cowpea; Garden pea; Goa bean; Grass pea; Guar; Jack bean; Lablab bean; Lentil; Lima bean; Lupin; Moth bean; Mung bean; Peas with and without pods (<i>Pisum</i> spp.); Peanut (immature); Pigeon pea; Podded pea; Rice bean; Scarlet runner bean; Soya bean; Stink bean; Sword bean; Urd bean; Velvet bean; Winged pea; Yard-long bean;
Subgroup 14A, Beans with pods	Beans with pods (<i>Phaseolus</i> spp.)	Beans with pods (VP 2060): Beans with pods (Phaseolus spp.); Beans with pods (Vigna spp.); Broad bean; Catjang; Common bean (poroto); Cowpea; Goa bean; Guar; Jack bean; Lablab bean; Moth bean; Mung bean; Rice bean; Scarlet runner bean; Soya bean; Stink bean; Sword bean; Urd bean; Yard-long bean
Subgroup 14B, Peas with pods	Peas with pods (Garden pea or podded pea) and/or Beans with pods (<i>Phaseolus</i> spp.)	Peas with pods (VP2061): Peas with pods (Pisum spp.); Ben Moringa; Chick-pea; Garden pea; Grass pea; Lentil; Pigeon pea; Podded pea; Winged pea
Subgroup 14C, Succulent beans without pods	Succulent beans without pods (<i>Phaseolus</i> spp.)	Succulent beans without pods (VP 2062): Beans, without pods (Phaseolus spp.); Beans, without pods (Vigna spp.); Broad bean, without pods; Catjang; Common bean; Cowpea; Goa bean; Jack bean; Lablab bean; Lima bean; Lupin; Moth bean; Scarlet runner bean; Soya bean; Stink bean; Velvet bean
Subgroup 14D, Succulent peas without pods	Garden pea	Succulent peas without pods(VP 2063): Peas (Pisum spp.) without pods; Chick-pea; Garden pea; Lentil; Pigeon pea

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Subgroup 14E, Underground immature beans and peas	Bambara groundnut (immature seeds)	Underground beans and peas (VC 2064): Bambara groundnut (immature seeds); Peanut (immature)
Group 15 Pulses	Beans, dry (<i>Phaseolus</i> spp.) and/or Peas, dry (<i>Pisum</i> spp.) and Soya bean, dry and Bambara groundnut (dry)	Pulses (VD 0070): Beans (Phaseolus spp.); Beans (Vigna spp.); Adzuki bean; African yam bean; Bambara groundnut; Broad bean; Chickpea; Common bean; Common Vetch; Cowpea; Field pea; Goa bean; Grass-pea; Guar; Horse gram; Jack bean; Kersting's groundnut; Lablab bean; Lentil; Lima bean; Lupin; Morama bean; Moth bean; Mung bean; Peas; Peas (Pisum spp.); Pigeon pea; Rice bean; Scarlet runner bean; Soya bean; Sword bean; Tepary bean; Thick bean; Urd bean; Velvet bean; Vetches; Winged pea; Yardlong bean
Subgroup 15A, Dry beans	Beans, dry (<i>Phaseolus</i> spp.) and/or Peas, dry (<i>Pisum</i> spp.) and Soya bean, dry	Dry beans (VD 2065): Beans (<i>Phaseolus</i> spp.); Beans (<i>Vigna</i> spp.); Adzuki bean; African yam bean; Broad bean; Common bean; Common Vetch; Cowpea; Goa bean; Guar; Horse gram; Jack bean; Lablab bean; Lima bean; Lupin; Morama bean; Moth bean; Mung bean; Rice bean; Scarlet runner bean; Soya bean; Sword bean; Tepary bean; Thick bean; Urd bean; Velvet bean; Vetches; Winged pea; Yardlong bean
Subgroup 15B, Dry peas	Peas, dry (<i>Pisum</i> spp.) and/or Beans, dry (<i>Phaseolus</i> spp.)	Dry peas (VD 2066): Peas (Pisum spp.); Chickpea; Field pea; Grass-pea; Lentil; Pigeon pea
Subgroup 15C, Dry underground pulses	Bambara groundnut (dry)	Dry underground pulses (VD 2067): Bambara groundnut (dry); Kersting's groundnut
Group 16 Root and tuber vegetables	Carrot and Radish and Sugar Beet or Beetroot and Potato or Sweet potato and Arrowhead	Root and tuber vegetables (VR 0075): Alocasia; American potato bean; Arracacha; Arrowhead; Arrowroot; Arrowroot, Guinea; Arrowroot, Polynesian; Banana, Abyssinian; Beetroot; Bellflower, Chinese; Burdock, greater or edible; Canna, edible; Caraway, black root; Carrot; Cassava; Cattail; Celeriac; Chayote root; Chervil, Turnip-rooted; Chicory roots; Chinese artichoke; Chinese potato; Chinese water chestnut; Cowpea, wild; Dandelion root; Deodeok; Earthnut pea; Elephant foot yam; Gastrodia tuber; Giant swamp taro; Ginseng; Goa bean root; Horseradish; Jerusalem artichoke; Kaffir potato; Konjac; Kudzu; Ladybell root; Lotus tuber; Maca; Madeira vine; Mashua; Mauka; Murnong; Mustard, tuberous rooted Chinese; Oca; Olbanggae; Parsley, Turniprooted; Parsnip; Pencil yam; Pignut; Potato; Radish; Radish, Black; Radish, Japanese; Rampion roots; Salsify; Salsify, Spanish; Scorzonera; Skirret; Sugar beet; Swede; Sweet potato; Tannia; Taro; Tiger nut; Ti palm; Turnip, Garden; Ullucu; Yacon; Yams; Yam vean

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Subgroup 16A, Root vegetables	Carrot and Radish and Sugar beet or Beetroot	Root vegetables (VR 2070) Beetroot; Bellflower, Chinese; Burdock, greater or edible; Caraway, black root; Carrot; Celeriac; Chervil, Turniprooted; Chicory roots; Dandelion root; Deodeok; Ginseng; Horseradish; Kudzu; Ladybell root; Maca; Madeira vine; Mauka; Murnong; Mustard, tuberous rooted Chinese; Parsley, Turniprooted; Parsnip; Pencil yam; Radish; Radish, Black; Radish, Japanese; Rampion roots; Salsify; Salsify, Spanish; Scorzonera; Skirret; Sugar beet; Swede; Ti palm; Turnip, Garden
Subgroup 16B, Tuberous and corm vegetables	Potato or Sweet potato	Tuberous and corm vegetables (VR 2071): Alocasia; American potato bean; Arracacha; Arrowroot; Arrowroot, Guinea; Arrowroot, Polynesian; Banana, Abyssinian; Canna, edible; Cassava; Chayote root; Chinese artichoke; Chinese potato; Cowpea, wild; Earthnut pea; Elephant foot yam; Gastrodia tuber; Giant swamp taro; Goa bean root; Jerusalem artichoke; Kaffir potato; Konjac; Mashua; Oca; Pignut; Potato; Sweet potato; Tannia; Taro; Tiger nut; Ullucu; Yacon; Yams; Yam bean
Subgroup 16C, Aquatic root and tuber vegetables	Arrowhead	Aquatic root and tuber vegetables (VR 2072): Arrowhead; Cattail; Chinese water chestnut; Lotus tuber; Olbanggae
Group 17 Stalk and stem vegetables	Celery and Asparagus and/or Artichoke, globe	Stalk and stem vegetables (VS 0078): Agave; Artichoke, globe; Asparagus; Bamboo shoots; Burdock, edible, tops; Cardoon; Celery; Celtuce; Dokhwal shoot; Dureup young shoot; Eumnamu shoot; Fennel, Bulb; Ferns, edible; Giant butterbur; Palm hearts; Prickly pear pads; Rhubarb; Kale, sea; Sweet potato stems; Taro stems; Udo; Water celery; Zuiki
Subgroup 17A, Stems and petioles	Celery	Stems and petioles (VS 2080): Burdock, edible, tops; Cardoon; Celery; Celtuce; Fennel, Bulb; Giant butterbur; Rhubarb; Sweet potato stems; Taro stems; Zuiki
Subgroup 17B,Young shoots	Asparagus	Young shoots (VS 2081): Agave; Asparagus; Bamboo shoots; Dokhwal shoot; Dureup young shoot; Eumnamu shoot; Ferns, edible; Kale, sea; Udo
Subgroup 17C, Others	Artichoke, globe	Other stalk and stem vegetables (VS 2082) Artichoke, globe; Palm hearts; Prickly pear pads, Water celery

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities
Group 18 Edible fungi	Mushrooms	Edibe fungi (VF 2084): Fungi, Edible, except mushrooms; Black poplar mushroom; Blewitt; Bunashimeji; Cauliflower mushroom; Cep; Chanterelle; Enoke; Hirmeola; Ink mushroom; Maitake; Morel; Mushrooms; Nameko; Net bearing Dictyophora; Oyster mushroom; Pine mushroom; Pom pom; Reishi mushroom; Shiitake mushroom; Shimeji; Straw mushroom; Stropharia; Truffle; Wangsongi; White jelly mushroom; Wood ears mushroom

APPENDIX IX

EDITORIAL AMENDMENTS TO THE CLASSIFICATION OF FOOD AND FEED: **FRUIT COMMODITY GROUPS**

(For adoption)

CITRUS FRUIT

Class A

Fruits Group 001 Type 1 **Group Letter Code FC**

Citrus fruits are produced on trees or shrubs of the family Rutaceae. Aromatic oily peel, globular form and interior segments of juice-filled vesicles characterize these fruits. The fruit is fully exposed to pesticides during the growing season. Post-harvest treatments with pesticides and liquid waxes are often carried out to avoid deterioration during transport and distribution due to fungal diseases, insect pests or loss of moisture.

The fruit pulp may be consumed in succulent form and as juice. The entire fruit may be used for preserves.

Four subgroups are defined:

Subgroup 001A Lemons and Limes: Hybrids and related species similar to lemons and limes

Subgroup 001B Mandarins: Hybrids and related species similar to mandarins

Subgroup 001C Oranges, Sweet, Sour: Hybrids and related species similar to oranges

Subgroup 001D Pummelos: Hybrids and related species

Portion of the commodity to which the MRL applies (and which is analyzed): Whole commodity.

Group 001 Citrus fruits Code No. Commodity

FC 0001 **Group of Citrus Fruit**

(includes all commodities in this group)

Subgroup 001A Lemons and Limes

Code No. Commodity

FC 0002 **Subgroup of Lemons and Limes** (including Citron)

- Citrus limon Burm.f.;
- Citrus aurantiifolia Swingle;
- Citrus medica L.:

Hybrids and related species similar to lemons and limes including Citrus jambhiri Lush Citrus limetta Risso; Citrus limettoides Tan.; Citrus limonia Osbeck.

Syn: see specific fruit species

(includes all commodities in this subgroup)

FC 2201 Australian blood lime, see also Lemons and Limes, FC 0002

Microcitrus australasica (F. Muell.) Swingle

Syn: Citrus australasica F. Muell.

FC 2202 Australian desert lime, see also Lemons and Limes, FC 0002

> Eremocitrus glauca (Linl.) Swingle Syn: Citrus glauca (Lindl) Burkill

FC 2203 Australian round lime, see also Lemons and Limes, FC 0002

Microcitrus australis (A. Cunn. ex Mudie) Swingle

Syn: Citrus australis (A. Cunn. ex Mudie) Planch.

FC 2204 Brown River finger-lime, see also Lemons and Limes, FC 0002

Microcitrus papuana Winters

Citrus wintersii Mabb.

FC 0202	Citron, see also Lemons and Limes, FC 0002
	Citrus medica L.;
	Syn: Citrus cedra Link; Citrus cedratus Raf.;
	Citrus medica genuina Engl.; Citrus medica proper Bonavia
FC 2206	Kaffir lime, see also Lemons and Limes, FC 0002
	Citrus histrix DC.
FC 0303	Kumquats
	Fortunella japonica (Thunberg) Swingle;
	F. margarita (Loureiro) Swingle
-	Kumquat, Marumi, see Kumquats, FC 0303
	Fortunella japonica (Thunberg) Swingle
-	Kumquat, Nagami, see Kumquats, FC 0303
	Fortunella margarita (Loureiro) Swingle
FC 0204	Lemon, see also Lemons and Limes, FC 0002
	Citrus limon Burm. f.;
	Syn: Citrus medica limon L.; Citrus limonum Risso; Citrus medica limonum Hook. F.; Citrus jambhiri Lush.
FC 0205	Lime, see Codex stan. 217-1999, Amd. 1-2005, see also Lemons and Limes, FC 0002
	Citrus aurantiifolia Swingle;
	Syn: Limonia aurantiifolia Christm.; L. acidissima Houtt. Citrus lima Lunan.; Citrus acida Roxb.; Citrus limonellus Hassk.
FC 2205	Lime, Sweet, see also Lemons and Limes, FC 0002
	Citrus limetta Risso
	Syn: Citrus limettioides Tan., Citrus lumia Risso)
FC 2207	Limequats
	Citrus japonica x Citrus aurantiifolia
-	Mexican Lime, see Codex stan. 217-1999, see Lime, FC 0205
	Citrus aurantifolia Swingle see, Amd. 1-2005
FC 220 <u>8</u>	Mount White-lime, see also Lemons and Limes, FC 0002
	Microcitrus garrowayae (F. M. Bailey) Swingle
FC 220 <u>9</u>	New Guinea wild lime, see also Lemons and Limes, FC 0002
	Microcitrus warburgiana (F. M. Bailey) Tanaka
FC 2210	Russell River-lime, see also Lemons and Limes, FC 0002
	Microcitrus inodora (F. M. Bailey) Swingle
	Syn: Citrus inodora (F. M. Bailey)
FC 2211	Tahiti Lime , see Codex stan. 213-1999, Amd. 3-2005,
	see also Lemons and Limes, FC 0002
	Citrus latifolia Tan.
-	Yuja, see Yuzu, FC 2212
FC 2212	Yuzu, see also Lemons and Limes, FC 0002
_	Citrus junos Siebold ex Tanaka
	2 25 janes Grobota on Tantana

Subgroup 001B Mandarins

Code No. Commodity

FC 0003 **Subgroup of Mandarins** (including Mandarin-like hybrids)

- Citrus reticulata Blanco:

Hybrids and related species including Citrus nobilis Lour .:

Citrus deliciosa Ten.; Citrus tangarina Hort.; Citrus mitis Blanco

Syn: Citrus madurensis Lour.; Citrus unshiu Marcow;

Syn: see specific fruit species Mandarin

(includes all commodities in this subgroup)

FC 0201 Calamondin, see also Mandarins, FC 0003

Citrus mitis Blanco:

Syn: Citrus madurensis Lour. (hybrid of Citrus reticulata Blanco.

var. austera Swing x Fortunella sp.)

Clementine, see Mandarins, FC 0003

Citrus clementina Hort. Ex Tanaka cultivar of Citrus reticulata Blanco (possibly natural hybrid of Manderin x Orange, Sweet)

Cleopatra mandarin, see Mandarins, FC 0003

Citrus reshni Hort. Ex Tan.

Dancy or Dancy mandarin, see Mandarins, FC 0003

Citrus tangerina Hort.

King mandarin, see Mandarins, FC 0003

Citrus nobilis Lour. (= hybrid of Mandarin x Orange, Sweet)

FC 0206 Mandarin, see also see Mandarins, FC 0003

Citrus reticulata Blanco;

Syn: Citrus nobilis Andrews (non Lour.); Citrus poonensis Hort. Ex Tanaka; Citrus chrysocarpa Lush.

Mediterranean mandarin, see Mandarins, FC 0003

Citrus deliciosa Ten (= hybrid of Mandarin x Orange, Sweet)

Satsuma or Satsuma mandarin, see Mandarins, FC 0003

Citrus unshiu Marcow.

Tangelo, small and medium sized cultivars, see Mandarins, FC 0003

Hybrids of Mandarin x Grapefruit or Mandarin x Shaddock

Tangerine, see Mandarins, FC 0003

Citrus reticulata Blanco;

Syn: Citrus tangarina Hort. Ex Tan. Citrus ponnensis Hort., Citrus Chyrosocarpa Lush., Citrus Reshni Hort.

Tangors, see Mandarins, FC 0003

Citrus nobilis Lour. (= Hybrid of Mandarin x Orange, sweet);

Tankan mandarin, see Mandarins, FC 0003

Citrus reticulate Blanco tankan Hyata (= probably hybrid of Mandarin x Orange, Sweet)

FC 2212 Unshu orange, see also Mandarins, FC 0003

Citrus reticulata Blanco ssp. unshiu (Marcow.) D.Rivera Núñez et al.

Willowleaf mandarin, see Mandarins, FC 0003

Citrus deliciosa Ten. (= hybrid of Mandarin and Orange, sweet)

Subgroup 001C Oranges, Sweet, Sour

Code No.	Commodity
FC 0004	Subgroup of Oranges, Sweet, Sour (including Orange-like hybrids)
	several cultivars:
	- Citrus sinensis Osbeck;
	- Citrus aurantium L.;
	Hybrids and related species:
	Citrus myrtifolia Raf.; Citrus salicifolia Raf.;
	Syn: see specific fruit species
	(includes all commodities in this subgroup)
-	Bergamot, see Oranges, Sweet, Sour, FC 0004
	Citrus aurantium ssp bergamia
-	Bigarade, see Orange, Sour FC 0207
	Citrus aurantium L.
-	Blood orange, see Orange, Sweet, FC 0208
	Cultivar of Citrus sinensis Osbeck
-	Chinotto, see Orange, Sour, FC 0207
	Citrus aurantium L., var. myrtifolia Ker-Gawler;
	Syn: Citrus myrtifolia Raf.
-	Chironja (orangelo), see Oranges, Sweet, Sour, FC 0004
	Citrus sinensis x Citrus paradise (= Hybrid of Orange, Sweet x Mandarin)
	Ichang Bitter Orange, see Orange, Sweet, FC 0208
	Citrus ichangensis Swingle
-	Malta orange, see Blood Orange
-	Myrtle-leaf orange, see Chinotto
-	Orange, Bitter, (=bigarade) see Orange, Sour FC 0207
FC 0207	Orange, Sour, see also Oranges, Sweet, Sour, FC 0004
	Citrus aurantium L.;
	Syn: Citrus vulgaris Risso; Citrus bigarradia Loisel; Citrus communis Le Maout & Dec.
FC 0208 FC 0004	Orange, Sweet, See Codex stan. 245-2004 Amd 1-2005, see also Oranges, Sweet, Sour,
	Citrus sinensis Osbeck;
	Syn: Citrus aurantium sinensis L.; Citrus dulcis Pers.; Citrus aurantium vulgare Risso & Poit.; Citrus aurantium dulce Hayne
-	Seville Orange, see Orange, Sour, FC 0207
-	Tachibana orange see Oranges, Sweet, Sour, FC 0004
	Citrus tachibana (Makino) Tanaka
	Syn: Citrus aurantium L. var. tachibana Makino; Citrus depressa
FC 2213	Trifoliate orange see also Oranges, Sweet, Sour, FC 0004
	Poncirus trifoliate (L.) Raf.

Subgroup 001D Pummelos

Code No. Commodity

FC 0005

Subgroup of Pummelo and Grapefruits (including Shaddock-like hybrids, among others Grapefruit)

Citrus maxima (Burm.) Merr.

Syn: Citrus Grandis L. Osbeck; Citrus paradisi Macf.; Citrus decumana L.

Hybrids and related species, similar to Shaddocks, including *Citrus natsudaidai* Hayata; Tangelos large sized (= hybrid, Grapefruit x Mandarin); Tangelolos: (hybrid, Grapefruit x Tangelo): Syn: see specific fruit species

(includes all commodities in this subgroup)

FC 0203 0005 Grapefruit, see Codex stan. 219-1999 Amd 2-2005, see also Pummelo and Grapefruits, FC

Hybrid of Shaddock x Orange, Sweet

Citrus paradisi Macf.;

Syn: Citrus maxima uvacarpa Merr. & Lee.

Natsudaidai, see Pummelo and Grapefruits, FC 0005

Citrus natsudaidai Hayata (possibly natural hybrid of Mandarin x Shaddock)

Pomelo, see Pummelo and Grapefruits, FC 0005

FC 0209 0005 Pummelo, see Codex stan. 214-1999, Amd 2-2005, see Pummelo and Grapefruits, FC

Citrus maxima (Burm.) Merr.

Syn: Citrus grandis L. Osbeck; Citrus aurantium decumana L.; Citrus decumana Murr.

Shaddock, see also Pummelo and Grapefruits, FC 0005

Citrus maxima (Burm.) Merr.;

- Tangelo, large-sized cultivars, see Pummelo and Grapefruits, FC 0005
- Citrus x tangelo J.W. Ingram & H.E. Moore;
- Tangelolo, see Pummelo and Grapefruits, FC 0005

Hybrids of Grapefruit x Tangelo

- **Ugli/Uniq fruit (=tangelo**), see Pummelo and Grapefruits, FC 0005

Cultivar of Tangelo, large sized fruit cultivar, see there

Citrus reticulate x Citrus paradisi

POME FRUITS

Class A

Type 1 Fruits Group 002 Group Letter Code FP

Pome fruits are produced on trees and shrubs belonging to certain genera of the rose family (Rosaceae), especially the genera Malus, Pyrus and also Pome fruit- like fruits from temperate climates are included. They are characterized by fleshy tissue surrounding a core consisting of parchment-like carpels enclosing the seeds.

Pome fruits are fully exposed to pesticides applied during the growing season. Post-harvest treatments directly after harvest may also occur. The entire fruit, except the core, may be consumed in the succulent form or after processing.

<u>Portion of the commodity to which the MRL applies (and which is analysed)</u>: **Whole commodity after removal of stems.**

Group 002	Pome fruits
Code No.	Commodity
FP 0009	Group of Pome fruits
	(includes all commodities in this group)
FP 0226	Apple
	Malus domestica Borkhausen
FP 2220	Azarole
	Crataegus azarolus L.
FP 2221	Chinese quince
	Chaenomeles speciosa (sweet) Nakai
FP 0227	Crab-apple
	Malus spp.; among other Malus baccata (L.) Borkh. var baccata;
	M. prunifolia (Willd.) Borkh.
-	Japanese medlar, see Loquat, FP 0228
-	Kaki or Kaki fruit, See Persimmon, japanese, FP 0307
FP 0228	Loquat
	Eriobotrya japonica (Thunberg ex J.A. Murray) Lindley
FP 2222	Mayhaw
	Crataegus spp.
FP 0229	Mediar
	Mespilus germanica L.
-	Nashi pear, see Pear, Oriental
FP 0230	Pear
	Pyrus communis L.; P. pyrifolia (Burm.) Nakai; P. bretschneideri Rhd.; P. sinensis L.
-	Pear, Oriental, see Pear, FP 0230
	Pyrus pyrifolia (Burm.) Nakai
-	Persimmon, Chinese, see Persimmon, Japanese, FP 0307
FP 0307	Persimmon, Japanese
	Diospyros Kaki Thunb.;
	syn: D. <i>chinensis</i> Blume

FP 0231	Quince
	Cydonia oblonga P. Miller;
	Syn: Cydonia vulgaris Persoon
-	Sand pear, see Pear, Oriental
FP 2223	Tejocote
	Crataegus mexicana DC.
FP2224	Wild pear
	Pyrus elaeagrifolia Pallas

STONE FRUITS

Class A

Type 1 Fruits Group 003 Group Letter Code FS

Stone fruits are produced on trees belonging to the genus Prunus of the rose family (Rosaceae) and also Stone fruit- like fruits from temperate climates are included. They are characterized by fleshy tissue surrounding a single hard shelled seed. The fruit is fully exposed to pesticides applied during the growing season (from fruit setting until harvest). Dipping of fruit immediately after harvest, especially with fungicides, may also occur.

The entire fruit, except the seed, may be consumed in a succulent or processed form.

Three subgroups are defined:

Subgroup 003 A Cherries: Cherry and related species of *Prunus*, which produce stone fruits similar to cherry

Subgroup 003 B Plums: Plum and related species of Prunus, which produce stone fruits similar to plum

Subgroup 003 C Peaches: Peach, nectarine, apricot and related species of *Prunus*, which produce stone fruits similar to peach, nectarine and apricot.

<u>Portion of the commodity to which the MRL applies (and which is analysed):</u> Whole commodity after removal of stems and stones, but the residue is calculated and expressed on the whole commodity without stem.

without Stein.		
Group 003 Stone fruits		
Code No.	Commodity	
FS 0012	Group of Stone fruits	
	Prunus spp. (includes all commodities in this group)	
Subgroup 003A	Cherries (includes all commodities in this subgroup)	
Code No.	Commodity	
FS 0013	Subgroup of Cherries	
-	Capulin, see Cherry, black, FS 2230	
	Prunus serotina Ehrh. subsp. capuli	
FS 2230	Cherry, black (including capulin)	
	Prunus serotina Ehrh. subsp. Serotina;	
	Prunus serotina Ehrh. subsp. capuli	
FS 2231	Cherry, Nanking	
	Prunus tomentosa Thunb.	
FS 0243	Cherry, Sour	
	Prunus cerasus L.	
FS 0244	Cherry, Sweet	
	Prunus avium L.	
-	Cherry, tart, see Cherry, Sour, FS 0243	
FS 2232	Choke cherry	
	Prunus virginiana L.	
-	Morello, see Cherry, Sour, FS 0243	
	Prunus cerasus L., var. austera L.	
Subgroup 003B	Plums	

Subgroup 003B Plums
Code No. Commodity

FS 0014 **Subgroup of Plums** (including fresh Prunes)

Prunus domestica L.; other Prunus spp and ssp. (includes all commodities in this subgroup)

FS 0241	Bullace
	Prunus insititia L.;
	Syn: Prunus domestica L., ssp. insititia (L.) Schneider
FS 0242	Cherry plum
	Prunus cerasifera Ehrhart, syn: P. divaricata Ledeboer P. salicina Lindl., var. Burbank
-	Chickasaw plum, see Plum, Chickasaw, FS 0248
-	Damsons (Damson plums), see Plum, Damson
FS 0302	Jujube, Chinese
	Ziziphus jujuba Mill.
-	Greengages (Greengage plums), see Plum, Greengage
FS 2233	Klamath plum,
	Prunus subcordata Benth.
-	Mirabelle, see Plum, Mirabelle
-	Myrobolan plum, see Cherry plum, FS 0242
FS 2234	Plum
	Prunus domestica L.
-	Plum, American, see Sloe, FS 0249
	Prunus americana Marshall
FS 2235	Plum, beach
	Prunus maritime Marshall
FS 0248	Plum, Chickasaw
	Prunus angustifolia Marsh.;
	Syn: P. Chicasaw Mich.
-	Plum, Damson, see Bullace, FS 0241
-	Plum, Greengage, see Plums, FS 0014
	Prunus insititia L., var. italica (Borkh.) L.M Neum.
-	Plum, Japanese, see Plums, FS 0014
	Prunus salicina Lindley;
	Syn: P. triflora Roxb.
-	Plum, Mirabelle, see Bullace, FS 0241
	Prunus insititia L., var. syriaca;
	Syn: P. domestica L., ssp insititia (L.) Schneider
FS 2236	Plumcot
	Prunus domestica x P. armeniaca
-	Prunes, see Plums, FS 0014
FS 0249	Sloe
	Prunus spinosa L.; several wild Prunus spp.
Subgroup 003C	Peaches
Code No.	Commodity
FS 2001	Subgroup of Peaches (including Nectarine and Apricots)

(includes all commodities in this subgroup)

FS 0240	Apricot
	Prunus armeniaca L.;
	Syn: Armeniaca vulgaris Lamarck
FS 2237	Japanese apricot
	Prunus mume Siebold & Zucc.
FS 0245	Nectarine
	Prunus persica (L.) Batch, var. nectarina
FS 0247	Peach
	Prunus persica (L.) Batsch;
	Syn: <i>P. vulgari</i> s Mill.

BERRIES AND OTHER SMALL FRUITS

Class A

Type 1 Fruits Group 004 Group Letter Code FB

Berries and other small fruits are derived from a variety of perennial plants and shrubs having fruit characterized by a high surface: weight ratio. The fruits are fully exposed to pesticides applied during the growing season (blossoming until harvest).

The entire fruit, often including seed, may be consumed in a succulent or processed form.

Five subgroups are defined:

Subgroup 004 A <u>Caneberries</u>: includes berries originating from canes that are erect or trailing, mainly Rubus species

Subgroup 004 B Bushberries: includes berries originating from woody shrubs

Subgroup 004 C Large shrub/tree berries: includes berries originating from large shrubs or trees

Subgroup 004 D Small fruit vine climbing: includes berries originating from climbing vines

Subgroup 004 E <u>Low growing berries</u>: includes berries originating from low growing berries that are short shrubs or herbaceous plants

<u>Portion of commodity to which the MRL applies (and which is analysed):</u> Whole commodity after removal of caps and stems. Currants, Black, Red, White: fruit with stem.

Group 004 Berries and other small fruits

Code No. Commodity

FB 0018 Group of Berries and other small fruits

(includes all commodities in this group)

Subgroup 004A	Cane berries
Code No.	Commodity

FB 2005 Subgroup of Cane berries

Rubus species (includes all commodities in this subgroup)

FB 0264 Blackberries

Rubus fruticosus auct. aggr., several ssp.

Boysenberry, see Dewberries, FB 0266

Hybrid of Rubus spp.

FB 0266 **Dewberries** (including Boysenberry and Loganberry)

Rubus ceasius L.; several Rubus ssp. and hybrids

Korean Black Raspberry, see Raspberries, Red, Black FB 0272

Rubus coreanus Miquel.

Korean Raspberry, see Raspberries, Red, Black FB 0272

Rubus crataegifolius Bunge

Loganberry, see Dewberries, FB 0266

Rubus loganobaccus L.H. Bailey, hybrid of Rubus spp.

Olallie berry, see Dewberries, FB 0266

FB 0272 Raspberries, Red, Black

Rubus idaeus L.; Rubus occidentalis L.; several Rubus spp. and hybrids, including wild rasp berries Rubus molluccanus L.

Youngberry, see Dewberries, FB 0266

Rubus ursinus cv. Young

Subgroup 004B	Bush berries
Code No.	Commodity
FB 2006	Subgroup of Bush berries
	(includes all commodities in this subgroup)
FB 0019	Vaccinium berries, including Bearberry, except Cranberry
	Vaccinium spp.; Arctostaphylos uva-ursi (L.) Spreng.
FB 0020	Blueberries
	Vaccinium corymbosum L.; Vaccinium angustifolium Ait.;
	Vaccinium virgatum Aiton; Gaylussacia spp.
FB 2240	Agritos
	Berberis trifoliolata Moric
FB 2241	Aronia berries
	Aronia spp.
FB 0260	Bearberry
	Arctostaphylos uva-ursi (L.) Spreng.
FB 0261	Bilberry
	Vaccinium myrtillus L.
FB 0262	Bilberry, Bog
	Vaccinium uliginosum L.
FB 0263	Bilberry, Red
	Vaccinium vitis-idaea L.
-	Blueberry, Highbush, see Blueberries, FB 0020
	Vaccinium corymbosum L.
-	Blueberry, Lowbush, see Blueberries, FB 0020
	Vaccinium angustifolium Ait
-	Blueberry, Rabbiteye, see Blueberries, FB 0020
	Vaccinium virgatum Aiton
FB 2242	Buffalo currant
	Ribes aureum var. villosum DC. (Syn: Ribes odoratum H.Wendl)
FB 2243	Chilean guava
	Ugni molinae Turcz. (Syn: Myrtus ugni Mol.)
-	Cowberry, see Bilberry, Red, FB 0263
FB 0021	Currants, Black, Red, White
	Ribes nigrum L.; R. rubrum L.
FB 0278	Currant, Black, see also Currants, Black, Red, White
	Ribes nigrum L.
FB 0279	Currant, Red, White, see also Currants, Black, Red, White
	Ribes rubrum L.
FB 0268	Gooseberry
	Ribes uva-crispa L. (Syn: R. grossularia L.)
FB 2244	European barberry
	Berberis vulgaris L.
-	European Blueberry, see bilberry FB 0261

FB 2245	Huckleberries
	1. Blueberries, see above FB 0020
	2. Gaylussacia spp., see Blueberries FB 0020
	Red Huckleberry (Vaccinium parvifolium L.)
FB 2246	Jostaberries
	Ribes x nidigrolaria Rud. Bauer & A. Bauer
FB 0270	Juneberries
	Amelanchier spp.
FB 2247	Native currant
	Acrotriche depressa R. Br.
FB 2248	Riberries
	Syzygium leuhmannii
FB 0273	Rose hips
	Rosa L., several spp.
FB 2249	Salal
	Gaultheria shallon Pursh
FB 2250	Sea buckthorn
	Hippophea rhamnoides L.
-	Whortleberry, Red, see Bilberry, Red, FB 0263
Subgroup 004C	Large shrub/tree berries
Code No.	Commodity
FB 2007	Subgroup of Large shrub/tree berries
	(includes all commodities in this subgroup)
FB 2251	Bayberries
	Morella spp.
FB 2252	Buffaloberry
	Shepherdia argentea (Pursh) Nutt.
FB 2253	Che
	Maclura tricuspidata Carrièra
FB 0267	Elderberries
	Sambucus spp.
FB 2254	Guelder rose
	Viburnum opulus L.
FB 0271	Mulberries
	Morus alba L.; Morus nigra L.; Morus rubra L.
FB 2255	Phalsa
	Grewia asiatica L.
_	Rowan, see Service berries, FB 0274
	Sorbus aucuparia L.
FB 0274	Service berries
150271	1. see Juneberries
	Sorbus torminalis (L.) Crantz; Sorbus domestica L. S. aucuparia L.
FB 2256	Silverberry, Russian
. 5 2200	Elaeagnus augustifolia L.
	∟іаваўни <i>э айуи</i> эшона ∟.

Subgroup 004D Small fruit vine climbing Code No. Commodity FB 2008 Subgroup of Small fruit vine climbing (includes all commodities in this subgroup) FB 2257 Arguta kiwifruit Actinidia arguta (Siebold & Zucc.) Planch. ex. Miq. FB 2258 Amur river grape Vitus amurensis Rupr. FB 0269 **Grapes** Vitis vinifera L., several cultivars FB 2259 **Schisandraberry** Schisandra chinensis (Turcz.) Baill. FB 1235 **Table-grapes** Special cultivars of Vitis vinifera L., suitable for direct human consumption Tara vine, see Arguta kiwifruit, FB 2255 FB 1236 Wine-grapes Special cultivars of Vitis vinifera L., suitable for preparing juice and fermenting into wine Subgroup 004E Low growing berries Code No. Commodity FB 2009 Subgroup of Low growing berries (includes all commodities in this subgroup) Bakeapple, see Cloudberry, FB 0277 FB 0265 Cranberry Vaccinium macrocarpon Aiton FB 0277 Cloudberry Rubus chamaemorus L. FB 2260 **Muntries** Kunzea pomifera F. Muell. FB 2261 Partridge berry Mitchella repens L. Squaw vine, see Partridge berry, FB 2259 FB 0275 Strawberry Fragaria x ananassa Duchene ex Rozier FB 0276 Strawberries, Wild Fragaria vesca L.; Fragaria moschata Duchene Strawberry, Musky, see Strawberries wild, FB 0276

Fragaria moschata Duchene

ASSORTED TROPICAL AND SUB-TROPICAL FRUITS - EDIBLE PEEL

Class A

Group 005 Type 1 **Fruits Group Letter Code FT**

The Assorted tropical and sub-tropical fruits - edible peel are derived from the immature or mature fruits of a large variety of perennial plants, usually shrubs or trees. The fruits are fully exposed to pesticides during the growing season (period of fruit development).

The whole fruit may be consumed in a succulent or processed form.

The group 005 Miscellaneous fruits – edible peel is divided in 3 subgroups:

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

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

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

Portion of the commodity to which the MRL applies (and which is analysed): Whole commodity. Dates, plives and similar fruits with hard seeds. Whole commodity after removal of stems and stones but

residue calculated and expressed on the whole fruit.		
Group 005	Assorted tropical and sub-tropical fruits - edible peel	
Code No.	<u>Commodity</u>	
FT 0026	Group of Assorted tropical and sub-tropical fruits - edible peel	

Group of Assorted tropical and sub-tropical fruits - edible peel

Subgroup 005A Assorted tropical and sub-tropical fruits - edible peel – small		
Code No.	Commodity	
FT 2011	Subgroup of Assorted tropical and sub-tropical fruits - edible peel – small	

(in almala a all a annon a differentia file and annon a

(I	ncludes all commodities in this subgroup)	
Acero	la, see Barbados cherry, FT 0287	

FT 2300	African plum
	Vitex doniana Sweet
ET 0004	Alma a malatta

1 1 2001	Amonactic
	Buchanania lanzan Spreng.

FT 2302	Apple berry
	Billardiera scandens Sm.
FT 0286	Arbutus berry

	Arbutus unedo L.
FT 0287	Barbados cherry

Malniahia	emarginata	$DC \cdot$	01/01	Λ /	alabral
Maibiulia	emarumata	DC	SVII.	IVI.	ulabia L.

Bayberry, Red
Bayberry, Red

Morella rubra Lour

FT 2304 **Bignay**

Antidesma bunius (L.) Spreng.

FT 2305 **Breadnut**

Bosimum alicastrum Sw.

Brazilian cherry, see Grumichana, FT 0298

FT 2306 Cabeluda

Plinia glomerata (O. Berg) Amshoff

Camu-camu, see Rumberry, FT 2330 Caranda, see Karanda FT 0290

FT 2307 Carandas plum

Carissa edulis Vahl.

FT 2308	Ceylon iron wood
	Manilkara hexandra (Roxb.) Dubard
FT 2309	Ceylon olive
	Elaeocarpus serratus L.
FT 2310	Cherry-of-the-Rio-Grande
	Eugenia aggregate (Vell.) Kiaersk.
FT 0293	Chinese olive, Black, White
	Canarium tramdenum C.D.Dai&Yakovlev Syn: C pimela Koenig Canarium album (Lour.) Raeusch.
FT 2311	Chiraulinut
	Buchanania latifolia Roxb.
FT 0294	Coco plum
	Chyrsobalanus icaco L.
FT 0296	Desert date
	Balanites aegyptiaca (L.)Delile
FT 2312	False sandalwood
	Ximenia americana L.
FT 2313	Fragrant manjack
	Cordia dichotoma G. Forst.
FT 2314	Gooseberry, Abyssinian
	Dovyalis abyssinica (A. Rich.) Warb.
FT 2315	Gooseberry, Ceylon
	Dovyalis hebecarpa (Gardner) Warb.
FT 2316	Governor's plum
	Flacourtia indica (Burm.fF) Merr.;
	Flacourtia inermis Roxb.;
	Flacourtia rukam Zoll.&Moritzi
	Flacourtia jangomas (Lour.)Raeusch.
FT 0298	Grumichama
	Eugenia brasiliensis Lam.
	Syn: Eugenia dombeyi (Spreng.) Skeels
FT 2317	Guabiroba
	Campomanesia xanthocarpa O. Berg
FT 2318	Guava berry
	Myrciaria floribunda (H. West ex Willd.) O. Berg
_	Herbert river cherry, See Bignay, FT 2304
FT 0299	Hog plum
	Spondias mombin L.;
	syn: <i>S. lutea</i> L.
-	Icaco plum, See Coco plum, FT 0294
FT 2319	Illawara plum
	<i>Podocarpus elatus</i> R. Br. Ex Endl.
-	Indian plum, See Governor's plum, FT 2316
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FT 2320	Jamaica cherry
	Muntingia calabura L.
FT 0339	Jambolan
	Zyzigium cumini (L.) Skeels;
	syn: Eugenia cuminii (L.) Druce;
FT 0340	Java apple
	Syzigium samarangense (Bl.) Merr. & Perry;
	Syn: <i>Eugenia javanica</i> Lam
FT 2321	Kaffir plum
	Harpephyllum caffrum Bernh. Ex C. Krauss
FT 2322	Kakadu plum
	Terminialia latipes Benth. Subsp. psilicarpa Pedley
FT 2323	Kapundung
	Baccaurea racemosa (Reinw.) Müll. Arg.
FT 0290	Karanda
	Carissa carandas L.
FT 2324	Lemon aspen
	Acronychia acidula F. Muell.
-	Maya breadfruit, See Breadnut, FT 2305
-	Mombin, yellow, See Hog plum FT 0299
FT 2326	Monos plum
	Pseudanamomis umbellulifera (Kunth) Kausel
FT 2327	Mountain cherry
	Bunchosia cornifolia Kunth
-	Olives, table, see Table olives FT 0305
FT 0306	Otaheite gooseberry
	Phyllantus acidus (L.) Skeels
	syn: Ph. distichus (L.) MuellArg.
-	Olives for oil production, see Group 023 Oilseed
FT 2328	Persimmon, Black
	Diospyros texana Scheele
-	Pitanga, see Surinam Cherry, FT 0311
FT 2329	Pitomba
	Eugenia luschnathiana Klotzsch ex O. Berg
-	Plum-of-Martinique, See Governor's plum, FT 2316
-	Rukam, See Governor's plum, FT 2316
FT 2330	Rumberry
	Myrciaria dubia (Kunth) Mc Vaugh
FT 0310	Sea grape
	Coccoloba uvifera Jacq.
FT 2331	Sete-capotes
	Campomanesia guazimifolia (Cambess.) O. Berg
FT 2332	Silver aspen
	Acronychia wilcoxiana (F. Muell.) T.G. Hartley

FT 0311	Surinam cherry
	Eugenia uniflora L.
FT 0305	Table Olives
	Olea europaea L., var. europaea
-	Tree strawberry, see Arbutus berry, FT 0286
FT 2333	Water apple
	Syzygium aqueum (Burm. F.) Alston
FT 2334	Water berry
	Syzygium cordatum Hochst. Ex C. Krauss
FT 2335	Water pear
	Syzygium guineense (Willd.) DC
-	Wax jambu, see Java apple FT 0340
-	Yumberry, see Bayberry, Red, FT 2303
Subgroup 005B	Assorted tropical and sub-tropical fruits - edible peel – medium to large
Code No.	Commodity
FT 2012	Subgroup of Assorted tropical and sub-tropical fruits - edible peel – large
	(includes all commodities in this subgroup)
FT 0285	Ambarella
	Spondias dulcis Sol. Ex Parkinson;
	syn: S. cytherea Sonn.
-	Aonla, See Gooseberry, Indian, FT 2356
FT 2350	Arazá
	Eugenia stipitata Mac Vaugh
FT 2351	Babaco
	Vasconcella x heilbornii (V.M. Badillo) V.M. Badillo
FT 0288	Bilimbi
	Averrhao bilimbi L.
FT 2352	Cajou (pseudofruit)
	Anacardium giganteum Hance ex Engl.
FT 2353	Cambucá
	Marlierea edulis Nied.
FT 0289	Carambola
	Averrhoa carambola L.
FT 0291	Carob
	Ceratonia siliqua L.
FT 0292	Cashew apple
	Anacardium occidentale L.
FT 2354	Ciruela verde
	Bunchosia armeniaca (Cav.) DC.
FT 2355	Davidson plum
	Davidsonia pruriens F. Muell
FT 0297	Fig
	Ficus carica L.

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FT 2356	Gooseberry, Indian
	Phyllanthus emblica L.
FT 0336	Guava
	Psidium guajava L.
FT 2357	Guava, Brazilian
	Psidium guineense Sw.
FT 2358	Guava, Cattley
	Psidium cattleianum Sabine
FT 2359	Guava, Costa Rican
	Psidium friedrichsthalianum (O. Berg) Nied.
FT 2360	Guava, Para
	Psidium acutangulum DC.
FT 2361	Guayabillo
	Psidium sartorianum (O. Berg) Nied.
FT 2362	Imbé
	Garcinia livingstonei T. Anderson
FT 2363	Imbu
	Spondias tuberosa Arruda ex Kost.
-	Indian mulberry, See Noni, FT 2371
FT 0300	Jaboticaba
	Myrciaria cauliflora O. Berg.;
	syn: <i>Eugenia cauliflora</i> DC.
FT 0301	Jujube, Indian
	Ziziphus mauritania Lam.;
	syn: <i>Z. jujuba</i> (L.) Lam. Gaertn.
FT 2364	Kwai muk
	Artocarpus hypargyreus Hance ex Benth.
-	Locust tree, See carob, FT 0291
FT 2365	Mangaba
	Hancornia speciosa Gomes
FT 2366	Marian plum
	Bouea macrophylla Griff
FT 2367	Mombin, Malayan
	Spondias pinnata (J. Koenig. ex L. f.) Kurz
FT 2368	Mombin, Purple
	Spondias purpurea L.
FT 2369	Monkey fruit
	Autocarpus lacucha BuchHam.
-	Muriti, See Nance, FT 2370
FT 2370	Nance
FT 000.4	Byrsonima crassifolia (L.) Kunth
FT 0304	Natal plum
	Carissa macrocarpa (Eckl.) A.DC.
	Syn: C. grandiflora (E, Mey) A.DC.

FT 2371	Noni
	Morinda citrifolia L.
FT 2372	Papaya, Mountain
	Vasconcellea pubescens A. DC.
FT 0308	Pomerac
	Syzygium Malaccense (L.) Merr. et Perry;
	syn: Eugenia malaccensis L.
-	Pomarrosa, see Rose apple, FT 0309
-	Pomarrosa, Malay, see Pomerac, FT 0308
-	Purple strawberry guava, See Guava, Cattley, FT 2358
FT 2373	Rambai
	Baccaurea motleyana (Müll. Arg.) Müll. Arg
FT 0309	Rose apple
	Syzigium jambos (L.) Alston;
	syn: <i>Eugenia jambos</i> L.
FT 0364	Sentul
	Sandoricum koetjape (Burm.F) Merr.
-	Strawberry guava, See Guava, Cattley, FT 2358
-	St. John's bread, see Carob, FT 0291
-	Umbu, See Imbu FT 2363
FT 2374	Uvalha
	Eugenia pyriformis Cambess
-	Yellow strawberry guava, See Guava, Cattley, FT 2358
Subgroup 005C	Assorted tropical and sub-tropical fruits - edible peel – palms
Code No.	Commodity
Code No. FT 2013	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms (includes all commodities in this subgroup)
	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms (includes all commodities in this subgroup) Açaí
FT 2013 FT 2400	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms (includes all commodities in this subgroup) Açaí Euterpe oleracea Mart.
FT 2013	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295 FI 0333	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295 FI 0333	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295 FI 0333 FT 2404	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295 FI 0333 FT 2404	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms
FT 2013 FT 2400 FT 2401 - FT 2402 FT 2403 FT 0295 FI 0333 FT 2404 FT 2405	Subgroup of Assorted tropical and sub-tropical fruits - edible peel - palms (includes all commodities in this subgroup) Açaí Euterpe oleracea Mart. Apak palm Brahea dulcis (Kunth) Mart. Assai palm, see Açaí, FT 2400 Bacaba palm Oenocarpus bacaba Mart. Babaca-de-leque Oenocarpus distichus Date Phoenix dactylifera L. Doum or Dum palm Hyphaene thebaica (L.) Mart. Jelly palm Butia capitata (Mart.) Becc. Patauá Oenocarpus bataua Mart.

ASSORTED TROPICAL AND SUB-TROPICAL FRUITS - INEDIBLE PEEL

Class A

Type 1 Fruits Group 006 Group Letter Code FI

The Assorted tropical and sub-tropical fruits - inedible peel are derived from the immature or mature fruits of a large variety of perennial plants, usually shrubs or trees. Fruits are fully exposed to pesticides applied during the growing season (period of fruit development) but the edible portion is protected by skin, peel or husk. The edible part of the fruits may be consumed in a fresh or processed form.

The group Miscellaneous fruits – inedible peel is divided in 6 subgroups:

Subgroup 006A Assorted tropical and sub-tropical fruits - inedible peel - small

Subgroup 006B Assorted tropical and sub-tropical fruits - inedible smooth peel - large

Subgroup 006C Assorted tropical and sub-tropical fruits - inedible rough or hairy peel - large

Subgroup 006D Assorted tropical and sub-tropical fruits - inedible peel - cactus

Subgroup 006E Assorted tropical and sub-tropical fruits - inedible peel - vines

Subgroup 006F Assorted tropical and sub-tropical fruits - inedible peel - palms

<u>Portion of the commodity to which the MRL applies (and which is analysed):</u> Whole fruit unless qualified: e.g., banana pulp. Pineapple after removal of crown. Avocado, mangos and similar fruit with hard seeds: Whole commodity after removal of stone but residue calculated and expressed on whole fruit.

seeds: Whole con	nmodity after removal of stone but residue calculated and expressed on whole
Group 006	Assorted tropical and sub-tropical fruits - inedible peel
Code No.	Commodity
FI 0030	Group of Assorted tropical and sub-tropical fruits - inedible peel
Subgroup 006A	Assorted tropical and sub-tropical fruits - inedible peel – small
Code No.	Commodity
FI 2021	Subgroup of Assorted tropical and sub-tropical fruits - inedible peel – small
	(includes all commodities in this subgroup)
FI 2450	Aisen
	Boscia senegalensis (Pers.) Lam
FI 2451	Bael fruit
	Aegle marmelos (L.) Corrêa
FI 2452	Burmese grape
	Baccaurea ramiflora Lour.
-	Cat's eyes
	Dimocarpus Longan Lour. subsp. malesianus Leenh., see Longan FI 0342
FI 2453	Ingá
	Inga vera Willd. subsp affinis (DC.) T.D. Penn.
FI 0343	Litchi
	Litchi chinensis Sonn.;
	syn: Nephelium litchi Camb.
FI 0342	Longan, see Codex stan. 220-1999
	Dimocarpus longan Lour.
	syn: Nephelium longana (Lam.) Camb.; Euphoria longana Lam.
FI 2454	Madras-thorn
	Pithecellobuim dulce (Roxb.) benth
FI 2455	Manduro

Balanites maughamii Sprague

FI 2457 Mesquite Prosopis juliflora (Sw.) DC. FI 2458 Mongongo Schinziophyton rautanenii (Schinz) RadclSm FI 2459 Pawpaw, Small-flower Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L. FI 0369 Tamarind, see also Subgroup 28B Spices: Fruit or berry
Prosopis juliflora (Sw.) DC. FI 2458 Mongongo Schinziophyton rautanenii (Schinz) RadclSm FI 2459 Pawpaw, Small-flower Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 2458 Mongongo Schinziophyton rautanenii (Schinz) RadclSm FI 2459 Pawpaw, Small-flower Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 2459 Pawpaw, Small-flower Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 2459 Pawpaw, Small-flower Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
Asimina parviflora (Michx.) Dunal FI 2460 Satinleaf Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 2460 Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
Chrysophyllum oliviforme L. FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 2461 Sierra Leone-tamarind Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
Dallium guineense Willd. FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
FI 0366 Spanish lime Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
Melicoccus bijugatus Jacq.; syn: Melicocca bijuga L.
syn: <i>Melicocca bijuga</i> L.
, , ,
FI 0369 Tamarind, see also Subgroup 28B Spices: Fruit or berry
Tamarindus indica L., sweet varieties
FI 2462 Velvet tamarind
Dallium indicum L.
FI 2463 Wampi
Clausena lansium (Lour.) Skeels
FI 2464 White star apple
Chrysophyllum albidum G. Don
Subgroup 006B Assorted tropical and sub-tropical fruits - inedible smooth peel - large
Code No. Commodity
FI 2022 Subgroup of Assorted tropical and sub-tropical fruits - inedible smooth peel – large
(includes all commodities in this subgroup)
FI 2480 Abiu
Pouteria caimito (Ruiz & Pav.) Radlk.
FI 0325 Akee apple
Blighia sapida K.D. Koenig
FI 0326 Avocado
Persea americana Mill.
Fl 2481 Bacuri
Platonia insignis Mart.
FI 0327 Banana
Subsp. and cultivars of <i>Musa</i> ssp. and hybrids
- Banana, Dwarf, See Banana, FI 0327
Musa hybrids, AAA group;
syn: <i>M. cavendishii</i> Lambert; <i>M. nana</i> Lour.
FI 2482 Binjai
Mangifera caesia Jack

FI 0715	Cacao (pulp)
	Theobroma cacao L.
FI 0330	Canistel
	Pouteria campechiana (Kunth.) Baenhi; this species includes former Lacuma nervosa A.DC. and L. salicifolia Kunth.
FI 2483	Cupuaçu
	Theobroma grandiflorum (Willd. ex Spreng.) K. Schum.
-	Egg fruit, see Canistel, FI 0330
FI 2484	Etambe
	Mangifera zeylanica (Blume) Hook. F.
FI 0335	Feijoa
	Acca sellowiana (O. Berg) Burret
	syn: <i>Feijoa sellowiana</i> (O. Berg) O. berg
FI 2485	Jatobá
	Hymenaea courbaril L.
FI 2486	Kei apple
	Dovyalis caffra (Hook. F. & Harv.) Warb.
FI 2487	Kokam
	Garcinia indica (Thouars) Choisy
FI 2488	Langsat
	Lansium domesticum Corrêa
	Syn: Aglaia domestica; A. dookoo
FI 2489	Lanjut
	Mangifera legenifera Griff.
FI 2490	Lucuma
	Pouteria lucuma (Ruiz & Pav.) Kuntze
-	Lulo, see Naranjilla, FI 0349
FI 2491	Mabolo
	Diospyros blancoi A. DC.
FI 0345	Mango
	Mangifera indica L.
FI 2492	Mango, Horse
	Mangifera foetida Lour.
FI 2493	Mango, Saipan
	Mangifera odorata Griff.
-	Mangostan, see Mangosteen, FI 0346
FI 0346	Mangosteen
	Garcinia mangostana L.
FI 0349	Naranjilla
	Solanum quitoense Lam.
FI 2494	Paho
	Mangifera altissima Blanco
FI 0350	Papaya
	Carica papaya L.

FI 2495	Pawpaw
	Asimina triloba (L.) Dunal
FI 2496	Pelipisan
	Mangifera casturi Kosterm.
FI 2497	Pequi
	Caryocar brasiliense Cambess.; C villosum (Aubl.) Pers
FI 0352	Persimmon, American
	Diospyros virginiana L.
-	Plantain, See Banana, Fl 0327
	Musa x paradisiaca L., var. sapientum (L.) Kuntze
FI 0355	Pomegranate
	Punica granatum L.
FI 2498	Quandong
	Satalum acuminutum (R. Br.) DC.
-	Quito orange, see Naranjilla, FI 0349
FI 0360	Sapote, Black
	Diospyros digyna Jacq.
	Syn: <i>D.ebenaster</i> Retz.
FI 0361	Sapote, Green
	Pouteria viridis (Pittier) Cronquist
	Syn: Calocarpum viride Pitt.
FI 0363	Sapote, White
	Casimiroa edulis La Llave & Lex
FI 2499	Sataw
	Parkia speciosa Hassk
FI 0367	Star apple
	Chrysophyllum cainito L.
FI 0312	Tamarillo,
	Solanum betaceum Cav.
	Syn: Cyphomandra betacea (Cav.) Sendt
FI 2500	Tamarind-of-the-Indies
	Vangueria madagascariensis J.F/Gmel.
-	Tree tomato, See Tamarillo, FI 0312
FI 2501	Wild loquat
	Uapaca kirkiana Müll. Agr.
Subgroup 006C	Assorted tropical and sub-tropical fruits – inedible rough or hairy peel - large
Code No.	Commodity
FI 2023 peel - large	Subgroup of Assorted tropical and sub-tropical fruits – inedible rough or hairy
	(includes all commodities in this subgroup)
FI 2520	Atemoya
	Annona x atemoya Mabb.
-	Baobab fruit, see Monkey-bread tree FI 2524

Rollinia mucosa (Jacq.) Baill.	FI 2521	Biriba
Artocarpus altilis (Parkinson) Fosberg syn: Artocarpus communis J.R. et G. Forster; Fl 2522 Champedak Artocarpus integer (Thunb.) Merr. Fl 0331 Cherimoya Annona cherimola Mill. Fl 0332 Custard apple Annona reticulata L Fl 0334 Durian Durio zibethinus L Fl 0371 Elephant apple Limonia acidissima L. syn: Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, Fl 0365 Fl 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, Fl 0371 Fl 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct Fl 0344 Mammey apple Mammea americana L. Fl 2523 Marang Artocarpus odoratissimus Blanco Fl 0347 Marmalade-box Genipa americana L. Fl 2524 Monkey-bread tree Adansonia digitata L. Fl 2525 Poshte Annona liebmaniana Baill. Fl 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. Fl 0358 Rambutan Nephelium lappaceum L. Fl 0359 Sapodilla Manilkara zapota (L.) P. Royen		Rollinia mucosa (Jacq.) Baill.
Syn: Artocarpus communis J.R. et G. Forster;	FI 0329	Breadfruit
Fi 2522 Champedak		Artocarpus altilis (Parkinson) Fosberg
Artocarpus integer (Thunb.) Merr.		syn: Artocarpus communis J.R. et G. Forster;
Fi 0331	FI 2522	Champedak
Annona cherimola Mill. FI 0332 Custard apple Annona reticulata L FI 0334 Durian Durio zibethinus L FI 0371 Elephant apple Limonia acidissima L. syn:Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, FI 0365 FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Artocarpus integer (Thunb.) Merr.
Fi 0332	FI 0331	Cherimoya
Annona reticulata L FI 0334 Durian Durio zibethinus L FI 0371 Elephant apple Limonia acidissima L. syn:Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, FI 0365 FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mamme americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Annas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Annona cherimola Mill.
FI 0334 Durian Durio zibethinus L FI 0371 Elephant apple Limonia acidissima L. syn:Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, FI 0365 FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mamme americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0332	Custard apple
FI 0371 Elephant apple Limonia acidissima L. syn: Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, FI 0365 FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saft. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Annas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Annona reticulata L
Elephant apple Limonia acidissima L. syn:Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, Fl 0365 Fl 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saft. Indian wood apple, see Elephant apple, Fl 0371 Fl 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct Fl 0344 Mammey apple Mammea americana L. Fl 2523 Marang Artocarpus odoratissimus Blanco Fl 0347 Marmalade-box Genipa americana L. Fl 2524 Monkey-bread tree Adansonia digitata L. Fl 0353 Pineapple Ananas comosus (L.) Merril; Fl 2525 Poshte Annona liebmaniana Baill. Fl 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. Fl 0358 Rambutan Nephelium lappaceum L. Fl 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0334	Durian
Limonia acidissima L. syn: Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, Fl 0365 Fl 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, Fl 0371 Fl 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct Mammey apple Mammea americana L. Fl 2523 Marang Artocarpus odoratissimus Blanco Fl 0347 Marmalade-box Genipa americana L. Fl 2524 Monkey-bread tree Adansonia digitata L. Fl 0353 Pineapple Annanas comosus (L.) Merril; Fl 2525 Poshte Annona liebmaniana Baill. Fl 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. Fl 0358 Rambutan Nephelium lappaceum L. Fl 0359 Sapodilla Manilkara zapota (L.) P. Royen		Durio zibethinus L
syn: Feronia limonia (L.) Swing; Feronia elephantum Corrêa Guanabana, see Soursop, Fl 0365 Fl 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, Fl 0371 Fl 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct Mammey apple Mammea americana L. Fl 2523 Marang Artocarpus odoratissimus Blanco Fl 0347 Marmalade-box Genipa americana L. Fl 2524 Monkey-bread tree Adansonia digitata L. Fl 0353 Pineapple Ananas comosus (L.) Merril; Fl 2525 Poshte Annona liebmaniana Baill. Fl 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. Fl 0358 Rambutan Nephelium lappaceum L. Fl 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0371	Elephant apple
FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Limonia acidissima L.
FI 0337 Ilama Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		syn: Feronia limonia (L.) Swing; Feronia elephantum Corrêa
Annona macroprophyllata Donn. Sm. Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	-	Guanabana, see Soursop, FI 0365
Syn: A. diversifolia Saff. Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mamme americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0337	llama
Indian wood apple, see Elephant apple, FI 0371 FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Annona macroprophyllata Donn. Sm.
FI 0338 Jackfruit Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Syn: A. diversifolia Saff.
Artocarpus heterophyllus Lam.; syn: A. integrifolius auct FI 0344 Mammey apple Mamme americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	-	Indian wood apple, see Elephant apple, FI 0371
syn: A. integrifolius auct FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0338	Jackfruit
FI 0344 Mammey apple Mammea americana L. FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Artocarpus heterophyllus Lam.;
Mammea americana L. FI 2523 Marang		syn: A. integrifolius auct
FI 2523 Marang Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0344	Mammey apple
Artocarpus odoratissimus Blanco FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Mammea americana L.
FI 0347 Marmalade-box Genipa americana L. FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 2523	Marang
FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Artocarpus odoratissimus Blanco
FI 2524 Monkey-bread tree Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0347	Marmalade-box
Adansonia digitata L. FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Genipa americana L.
FI 0353 Pineapple Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 2524	Monkey-bread tree
Ananas comosus (L.) Merril; FI 2525 Poshte Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Adansonia digitata L.
FI 2525 Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0353	Pineapple
Annona liebmaniana Baill. FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Ananas comosus (L.) Merril;
FI 0357 Pulasan Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 2525	Poshte
Nephelium ramboutan-ake (labill.) Leenh. FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Annona liebmaniana Baill.
FI 0358 Rambutan Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0357	Pulasan
Nephelium lappaceum L. FI 0359 Sapodilla Manilkara zapota (L.) P. Royen		Nephelium ramboutan-ake (labill.) Leenh.
FI 0359 Sapodilla Manilkara zapota (L.) P. Royen	FI 0358	Rambutan
Manilkara zapota (L.) P. Royen		Nephelium lappaceum L.
• • • • •	FI 0359	Sapodilla
syn: Manilkara achras (Mill.) Fosberg; Achras zapota L.		Manilkara zapota (L.) P. Royen
		syn: Manilkara achras (Mill.) Fosberg; Achras zapota L.

REP17/PR - Appen	dix iA
FI 0362	Sapote, Mammey
	Pouteria sapota (Jacq.) H.E. Moore & Stearn
	Syn: Calocarpum sapota (Jacq.) Merr.
FI 2526	Screwpine
	Pandanus tectorius Parkinson; P. utilus Bory; P. leram Jones ex Fontana; P. julianettii Martelli
FI 2527	Soncoya
	Annona purpurea Moc. &Sessé ex Dunal
FI 0365	Soursop
	Annona muricata L.
FI 0368	Sugar apple
	Annona squamosa L.
FI 2528	Sun sapote
	Licania platypus (Hemsl.) Fritsch
-	Sweetsop, see Sugar apple, FI 0368
Subgroup 006D As	ssorted tropical and sub-tropical fruits - inedible peel - cactus
Code No.	Commodity
FI 2024	Subgroup of Assorted tropical and sub-tropical fruits - inedible peel - cactus
	(includes all commodities in this subgroup)
-	Dragon fruit, see Pitaya, FI 2540
	H. undatus (Haw.) Britton & Rose
-	Indian fig, see Prickly pear, FI 0356
FI 2540	Pitaya
	Hylocereus spp.; H. undatus (Haw.) Britton & Rose; H. Megalanthus (K. Schum. Ex Vaupel) Ralf Bauer; H. Polyrhizus (F.A.C. Weber) Britton & Rose; H. Ocamponis (Salm-Dyck) Britton & Rose H. triangularis (L.) Britton&Rose
FI 0356	Prickly pear
	Opuntia ficus-indica (L.) P. Miller; O. Engelmannii Salm-Dyck ex Engelm. var. Lindheimeri (Engelman.) B.D. Parfitt & Pinkava
FI 2541	Saguaro
	Camegiea gigantean (Engelm.) Britton & Rose
Subgroup 006E As	ssorted tropical and sub-tropical fruits - inedible peel - vines
Code No.	Commodity
FI 2025	Subgroup of Assorted tropical and sub-tropical fruits - inedible peel - vines
	(includes all commodities in this subgroup)
-	Chinese gooseberry, see Kiwifruit, FI 0341
FI 2560	Granadilla
	Passiflora ligularis Juss.
FI 2561	Granadilla, Giant
	Passiflora quadrangularis L.
FI 0341	Kiwifruit
	Actinidia deliciosa (A. Chev.) C. F. Liang & A. R. Ferguson;
	A. chinensis Planch. and hybrids
FI 2562	Monstera
	Monstera deliciosa Liebm.

FI 2563

Passionflower fruit, Winged-stem

Passiflora alata Curtis

FI 2564

Passion fruit, Banana

Passiflora tripartita (Juss.) Poir. Var. mollissima (Kunth) Holm-Niels & P.

Jørg.

FI 0351

Passion fruit

Subgroup 006F Assorted tropical and sub-tropical fruits - inedible peel - palms

Cultivars of Passiflora edulis Sims

Salacca zalacca (Gaertn.) Voss

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Code No.	Commodity
FI 2026	Subgroup of Assorted tropical and sub-tropical fruits - inedible peel -palms
	(includes all commodities in this subgroup)
FI 2580	Coconut, Young
	Cocus nucifera L.
FI 2581	Guriri
	Allagoptera arenaria (Gomes) Kuntze
FI 2582	Moriche palm fruit
	Mauritia flexuosa L.f.
FI 2583	Muriti
	Mautitia flexuosa L.f.
FI 2584	Palmyra palm fruit
	Borassus flabellifer L.
FI 2585	Salak

APPENDIX X

NOTES TO BE ADDED IN THE DATABASE TO THE EXISTING SUBGROUP CXLs WHEN A NEW CROP IS RELOCATED TO THIS GROUP (AS A RESULT OF THE REVISION OF THE CLASSIFICATION OF FOOD AND FEED)

(For information)

subgroup		Notes to be added to the group-CXL	number of CXLs
VA 0035	Bulb vegetables	excluding Chives; Chives, Chinese	5
VB 0040	Brassica (except Brassica leafy vegetables)	excluding Chinese cabbage (type Pe-tsai)	20
VB 2036	Head brassica's	excluding Chinese cabbage (type Pe-tsai)	12
VL 0053	Leafy vegetables (including Brassica leafy vegetables)	excluding Witloof; Broccoli, Chinese	21
VL 0054	Leaves of Brassica	excluding Broccoli, Chinese	2
VS 0078	Stalk and stem vegetables	excluding Fennel, bulb; Kale, sea	2
GC 0080	Cereal grains	excluding Subgroup 020F Sweet corns	33
HH 0092	Herbs	excluding Pepper, leaves	4
HS 0093	Spices	excluding Galangal, greater and lesser	9

<u>Remark</u>: notes are not necessary for new created subgroups, because no group-CXLs are established yet, and so new commodities don't have to be excluded.

APPENDIX XI

Part A

DRAFT REVISION OF THE *CLASSIFICATION OF FOOD AND FEED*: CLASS A: PRIMARY FOOD COMMODITIES OF PLANT ORIGIN TYPE 03: GRASSES

(For adoption at Step 8)

TYPE 03 GRASSES

Grasses are herbaceous annual and perennial monocotyledonous plants of different kinds, cultivated extensively for their ears (heads) of starchy seeds used directly for the production of food. Grasses used for animal feed are classified under Class C: Primary Animal feed commodities, Group 051.

The plants are fully exposed to pesticides applied during the growing season.

Cereal grains

Class A

Type 3 Grasses Group 020 Group Letter Code GC

Group 020. Cereal grains are derived from the ears (heads) of starchy seeds produced by a variety of plants, primarily of the grass family (Gramineae).

Pseudocereals or pseudograins, are not grasses, but have similar uses and are generally considered with cereal grains. Pseudo-cereals, produce dry fruit referred to as seed, nutlets, grains or achenes and are found in families such as Amaranthacee (amaranths), Chenopodiaceae (Canihua) and Polygoniaceae (buckwheat). This group also includes the small seeded crop chia (Lamiaceae).

The edible seeds are protected to varying degrees from pesticides applied during the growing season by husks. Husks are removed before processing and/or consumption.

Cereal grains are often exposed to post-harvest treatment with pesticides. Six subgroups are defined:

Subgroup 020A Wheat, similar grains, and pseudocereals without husks

Subgroup 020B Barley, similar grains, and pseudocereals with husks

Subgroup 020C Rice Cereals

Subgroup 020D Sorghum Grain and Millet

Subgroup 020E Maize Cereals

Subgroup 020F Sweet Corns

<u>Portion of the commodity to which the MRL applies (and which is analyzed)</u>: Whole commodity in trade. Wheat, rye, triticale, maize, sorghum, pearl millet and other similar cereals with husks readily separable from kernels during threshing: kernels. Barley, oats, rice and other similar cereals with husks that remain attached to kernels even after threshing: kernels with husks (Note: For rice, only about 10% of traded grains is with husk). Corn-on-the-cob (kernels plus cob with husk removed).

For Fodders and straw of cereals, see Class C, Type 11 Group 051

Group 020	Cereal grains
Code No.	Commodity
GC 0080	Group of Cereal grains Seeds of <i>gramineous</i> plants and of dicotyledonous plants with similarities in size and type of the seed, residue pattern and the use of the commodity (includes all commodities in this group)
GC 0081	Cereal grains, cereal grains except pseudocereals
GC 0082	Pseudocereals, or pseudograins, produce dry fruit referred to as seed, nutlets, grains or achenes and are found in families such as Amaranthacee (amaranths), Chenopodiaceae (Canihua) and Polygoniaceae (buckwheat). This group also includes the small seeded crop chia (Lamiaceae).

Subgroup 020A Wheat, similar grains, and pseudocereals without husks

3	
Code No.	Commodity
GC 2086	Subgroup of Wheat, similar grains, and pseudocereals without husks
	(includes all commodities in subgroup 020A)
GC 3080	Amaranth, grain
	Amaranthus spp.
-	Amaranth, purple, see Amaranth grain, GC 3080
	Amaranthus cruentus L.
GC 0642	Cañihua
	Chenopodium pallidicaule Aellen
GC 3084	Chia
	Salvia hispanica L.
GC 3085	Cram-cram
	Cenchrus biflorus Roxb.
-	Durum wheat, see Wheat, GC 0654
	syn: Triticum durum Desf.
	Einkorn wheat, see Wheat, GC 0654
	Triticum monococcum L. subsp. monococcum
-	Emmer, see Wheat, GC 0654
	Triticum turgidum L. subsp. dicoccon (Schrank) Thell.
GC 3086	Huauzontle
	Chenopodium berlandieri Moq. subsp. nuttalliae (Saff.) H. D. Wilson & Heiser
-	Inca wheat, see Amaranth grain, GC 3080
	Amaranthus caudatus L.
	Khorasan wheat, see Wheat, GC 0654
	Triticum turgidum L. subsp.
-	Princess-feather, see Amaranth grain, GC 3080
	Amaranthus hypochondriacus L.
GC 3087	Psyllium sp.
	Plantago spp
-	Psyllium, see Psyllium sp.GC 3087
	Plantago arenaria Waldst. & Kit.
-	Psyllium, blond, see Psyllium sp.GC 3087
	Plantago ovata Forssk.
GC 0648	Quinoa
	Chenopodium quinoa Willd.
GC 0650	Rye
	Secale cereale L.
-	Spelt, see Wheat, GC 0654
	Triticum spelta L.
	•

GC 0653 **Triticale**

Hybrid of Wheat and Rye

GC 0654 Wheat

Cultivars of Triticum aestivum L.;

syn: T. sativum Lam.; T. vulgare Vill.; Triticum spp., as listed

Subgroup 020B Barley, similar grains, and pseudocereals with husks

Code No. **Commodity** GC 2087 Subgroup of Barley, similar grains, and pseudocereals with husks (includes all commodities in subgroup 020B) GC 0640 **Barley** Hordeum vulgare L.; GC 0641 **Buckwheat** Fagopyrum esculentum Moench; GC 3082 Buckwheat, tartary Fagopyrum tataricum (L.) Gaertn. GC 3083 Canarygrass, annual

Phalaris canariensis L.

GC 0647 Oats

Avena sativa L.; A. abyssinica Hochst.

Oat, naked, see Oats, GC 0647

Avena nuda L.

Oat, Red, see Oats, GC 0647

Avena byzantina Koch

Subgroup 020C Rice Cereals

Code No. Commodity GC 2088 Subgroup of Rice cereals (includes all commodities in subgroup 020C) GC 0649 Rice Oryza sativa L.; several ssp. and cultivars GC 3088 Rice, African Oryza glaberrima Steud. GC 0655 Wild rice Zizania palustris L. Wild Rice, Eastern, see wild rice GC 0655

Subgroup 020D Sorghum Grain and Millet

Code No.	<u>Commodity</u>
GC 2089	Subgroup of Sorghum Grain and Millet
	(includes all commodities in subgroup 020D)
-	Acha, see Hungry Rice, GC 0643
_	Adlay, see Job's Tears, GC 0644

Zizania aquatica L.

-	African millet, see Millet, GC 0646
-	Brown-corn millet, see Millet, GC 0646
-	Bulrush millet, see Millet, GC 0646
-	Cat-tail millet, see Millet, GC 0646
-	Chicken corn, see Sorghum Grain, GC 0651
	Sorghum drummondii (Steud.) Millsp. & Chase
-	Dari seed, see Sorghum Grain, GC 0651
-	Durra, see Sorghum Grain, GC 0651
	syn: Sorghum durra (Forsk.) Stapf.
-	Feterita, see Sorghum Grain, GC 0651
	syn: Sorghum caudatum Stapf.
-	Finger millet, see Millet, GC 0646
-	Fonio, see Hungry Rice, GC 0643
-	Fonio, black, see Hungry Rice, GC 0643
	Digitaria iburua Stapf
	Fonio, white, see Hungry Rice, GC 0643
	Digitaria exilis (Kippist) Stapf
-	Foxtail millet, see Millet, GC 0646
-	Fundi, see Hungry Rice, GC 0643
-	Guinea corn, see Sorghum Grain, GC 0651
	syn: Sorghum guineense Stapf.
-	Hog millet, see Millet, GC 0646
GC 0643	Hungry rice
	Digitaria exilis Stapf.; D. iburua Stapf.
GC 0644	Job's tears
	Coix lacryma-jobi L.
-	Kaffir corn, see Sorghum Grain, GC 0651
	syn: Sorghum caffrorum P. Beauv.
-	Kaoliang, see Sorghum Grain, GC 0651
	syn: Sorghum nervosum Bess. ex Schult. & Schult. f.
GC 0646	Millet
	Including Barnyard Millet, Bulrush Millet, Common Millet, Finger Millet, Foxtail Millet, Little Millet; (see for scientific names, specific commodities listed as Millet, followed by a specific denomination)
-	Millet, Barnyard, see Millet, GC 0646
	Echinochloa crus-galli (L.) Beauv.;
	syn: <i>Panicum crus-galli</i> L.;
	E. frumentacea (Roxb.) Link;
	syn: Panicum frumentaceum Roxb.
-	Millet, Bulrush, see Millet, GC 0646
	Pennisetum glaucum (L.) R. Br.
	syn: <i>P. typhoides</i> (Burm. f.) Stapf. & Hubbard; <i>P. americanum</i> (L.) K. Schum.; <i>P. spicatum</i> (L.) Koern.

Millet, Common, see Millet, GC 0646 Panicum miliaceum L. Millet, Finger, see Millet, GC 0646 Eleusine coracana (L.) Gaertn. Millet, Foxtail, see Millet, GC 0646 Setaria italica (L.) Beauv.; syn: Panicum italicum L.; Chaetochloa italica (L.) Scribn. Millet, Kodo, see Millet, GC 0646 Paspalum scrobiculatum L. Millet, Little, see Millet, GC 0646 Panicum sumatrense Roth Millet, Pearl, see Millet, GC 0646 Milo, see Sorghum Grain, GC 0651 syn: Sorghum subglabrescens (Steud.) Schweinf. & Asch. Pearl millet, see Millet, GC 0646 Proso millet, see Millet, GC 0646 Russian millet, see Millet, GC 0646 Shallu, see Sorghum Grain, GC 0651 syn: Sorghum roxburghii Stapf. Sorgo, see Sorghum Grain, GC 0651 GC 0651 **Sorghum Grain** Sorghum bicolor (L.) Moench; several Sorghum ssp. and cultivars Spiked millet, see Millet, GC 0646 GC 0652 Teff or Tef Eragrostis tef (Zucc.) Trotter; syn: E. abyssinica (Jacq.) Link **Subgroup 020E Maize Cereals** Code No. Commodity GC 2091 **Subgroup of Maize Cereals** (includes all commodities in subgroup 020E) Corn, see Maize, GC 0645 Indian corn, see Maize, GC 0645 syn: Zea indurata Sturtev. GC 0645 Maize Zea mays L., several cultivars, not including Sweet corn GC 0656 **Popcorn** Zea mays L., var. everta Sturt.; syn: Zea mays L., var. praecox GC 0657 **Teosinte** Zea mays ssp. mexicana (Schrader) Iltis; syn: Zea mexicana (Schrader) Kunze; Euchlaena mexicana Schrader.

Subgroup 020F Sweet Corns

Code No.	Commodity	
GC 2090	Subgroup of Sweet Corns	
	(includes all commodities in subgroup 020F)	
GC 3081	Baby corn	
	Zea mays L., several cultivars	
-	Corn-on-the cob, see Sweet corn (Corn-on-the-cob), GC 0447	
GC 0447	Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed)	
	Zea mays L., several cultivars, not including popcorn	
GC 1275	Sweet corn (whole kernel without cob or husk)	
	Zea mays L., several cultivars, not including popcorn	

GRASSES FOR SUGAR OR SYRUP PRODUCTION

Class A

Type 3 Grasses Group 021 Group Letter Code GS

Group 021, Grasses for sugar or syrup production, includes species of grasses with a high sugar content especially in the stem. The stems are mainly used for sugar or syrup production, and to a small extent as vegetables or sweets. The leaves, ears and several wastes of the sugar or syrup manufacturing process are used, among others, as animal feed (see Group 052: Miscellaneous fodder and forage crops).

Portion of the commodity to which the MRL applies (and which is analysed): Whole commodity: Sorgo or Sorghum, Sweet (Stalk); Sugar cane (cane)

Group 021 Grasses for sugar or syrup production

Code No. Commodity

GS 0658 Sorgo or Sorghum, Sweet

varieties and cultivars of Sorghum of which the stems contain considerable amounts of sweet juice. Among others cultivars of

Sorghum bicolor (L.) Moench.

S. dochna (Forsk.) Snowdon

GS 0659 Sugar cane

Saccharum officinarum L.

APPENDIX XI

Part B

PROPOSED DRAFT TABLE 3 ON EXAMPLES OF SELECTION OF REPRESENTATIVE COMMODITIES (GRASS COMMODITY GROUPS)

for inclusion in the *Principles and Guidance for the Selection of Representative Commodities for the Extrapolation of Maximum Residue Limits for Pesticides for Commodity Groups* (CAC/GL 84-2012)

(For adoption at Step 5/8)

Codex Group / Subgroup	Examples of Representative Commodities ¹	Extrapolation to the following commodities	
Group 020 Cereal Grains	Wheat and Barley and Rice and Sorghum Grain and Maize and Sweet corn	Cereal grains (GC 0080): Amaranth, grain; Baby corn (immature corn); Barley; Buckwheat; Buckwheat, tartary; Canarygrass, annual; Cañihua; Chia; Corn-on-the-cob (kernels plus cob with husk removed); Cram-cam; Hungry rice; Huauzontle; Job's tears; Maize; Millet; Oats; Popcorn; Psyllium sp., Quinoa; Rice; Rice, African; Rye; Sorghum; Sweet corn (whole kernel without cob or husk); Teff or Tef; Teosinte; Triticale; Wheat; Wild rice	
Subgroup 020A, Wheat, similar grains and pseudocereals without husks	Wheat	Wheat, similar grains, and pseudocereals without husks (GC 2086): Amaranth, grain; Cañihua; Chia; Cram-cam; Huauzontle; Psyllium sp., Quinoa; Rye; Triticale; Wheat	
Subgroup 020B, Barley, similar grains, and pseudocereals with husks	Barley	Barley, similar grains, and pseudocereals with husk (GC 2087): Barley; Buckwheat; Buckwheat, tartary; Canarygrass, annual; Oats	
Subgroup 020C Rice cereals	Rice	Rice Cereals (GC 2088): Rice; Rice, African; Wild rice	
Subgroup 020D Sorghum Grain and Millet	Sorghum Grain	Sorghum Grain and Millet (GC 2089): Hungry rice; Job's tears; Millet; Sorghum Grain; Teff or Tef;	
Subgroup 020E Maize Cereals			
Subgroup 020F Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed)		Sweet corns (GC 2090): Baby corn; Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed); Sweet corn (whole kernel without cob or husk)	
Group 021 Grasses for sugar production and grasses and other plants for syrup production Sugar cane or So or Sorghum, Swe		Sorgo or Sorghum, Sweet; Sugar cane	

¹ Alternative representative commodities may be selected based on documented regional/country differences in dietary consumption and/or areas of production.

APPENDIX XII

PROPOSED DRAFT REVISION OF THE CLASSIFICATION OF FOOD AND FEED:

CLASS A: PRIMARY FOOD COMMODITIES OF PLANT ORIGIN

TYPE 04: NUTS, SEED AND SAPS - GROUP 024 SEED FOR BEVERAGES AND SWEETS

(For adoption at Step 5)

Type 04 Nuts, seeds and saps Group 024 Group Letter Code SB

The seeds for beverages and sweets are derived from tropical and sub-tropical trees and shrubs. After processing the seeds are used in the production of beverages and sweets.

These seeds are protected from pesticides applied during the growing season by the shell or other parts of the fruit.

<u>Portion of the commodity to which the MRL applies (and which is analysed):</u> **Unless specified, whole commodity (seed only, other parts of the fruit not included).**

Group 024	Seed for beverages and sweets
Code No.	Commodity
SB 0091	Group of Seed for beverages
SB 0715	Cacao beans
	Theobroma cacao L.; several ssp.
SB 0716	Coffee beans
	among others Coffea arabica L.; C. canephora Pierre ex Froehner C. liberica Bull ex Hiern.; ssp. and cultivars
SB 0717	Cola nuts
	Cola nitida (Vent.) Schott & Endl.; C. acuminata (P. Beauv.) Schott & Endl.; C. anomala K. Schum.; C. verticillata (Thonn.) Stapf ex A. Chev.
-	Kola, see Cola nuts
SB 0718	Senna seeds
	Senna obtusifolia (L.) H. S. Irwin & Barneby.

APPENDIX XIII

DRAFT GUIDELINES ON PERFORMANCE CRITERIA FOR METHODS OF ANALYSIS FOR THE DETERMINATION OF PESTICIDE RESIDUES IN FOOD AND FEED

(For adoption at Step 8)

TABLE OF CONTENTS

	Paragraphs
Objective	1-3
Principles for the Selection and Validation of Methods	4-10
A. Defining the Purpose of the Method and Scope	4-7
B. Supplementing other Codex Alimentarius Commission Guidelines	8-9
C. Method Validation	10
Performance Parameters for Analytical Methods	11-31
A. Method Documentation	12
B. Selectivity	13-14
C. Calibration	15-16
D. Linearity	17-18
E. Matrix effects	19
F. Trueness and Recovery	20-21
G. Precision	22-25
H. Limit of Quantification	26
I. Analytical Range	27
J. Ruggedness	28-29
K. Measurement Uncertainty	30-31
Performance Criteria of Screening Methods	32-34
Performance Criteria of Quantitative Methods	35-43
Performance Criteria of Methods for Analyte Identification and Confirmation	44-51
A. MS-Based Identification	46-49
B. Confirmation	50-51
Tables	
Definitions	Annex

OBJECTIVE

- The purpose of these guidelines is to define and describe the performance criteria, which should be met
 by methods to analyse pesticide residues in foods and feed (hereafter referred to as food). It addresses
 the characteristics/parameters to provide scientifically acceptable confidence in the analytical method
 that is fit for the intended use and may be used to reliably evaluate pesticide residues for either domestic
 monitoring and/or international trade.
- 2. This document is applicable to both single residue methods and multi-residue methods (MRMs) that analyse target compounds in all food commodities per the residue definition.
- 3. These guidelines cover qualitative and quantitative analyses, each having their own method performance criteria. Performance criteria of methods for analyte identification and confirmation are also addressed.

PRINCIPLES FOR THE SELECTION AND VALIDATION OF METHODS

A. Defining the Purpose of the Method and Scope

- 4. The intended purpose of the method is usually described in a statement of scope, which defines the analytes (residues), the matrices, and the concentration ranges. It also states whether the method is intended for screening, quantification, identification, and/or confirmation of results.
- 5. In regulatory applications, the maximum residue limit (MRL) is expressed in terms of the residue definition. Residue analytical methods should be able to measure all components of the residue definition.
- 6. Fitness-for-purpose is the extent to which the performance of a method meets the end-user's needs, and matches the criteria (data quality objectives) agreed between the laboratory and the end-user (or client) of the data, within technical and resource constraints. Fitness-for-purpose criteria could be based on some of the characteristics described in this document, but ultimately will be expressed in terms of acceptable combined uncertainty¹.

Harmonized IUPAC Guidelines For Single-Laboratory Validation of Methods of Analysis, Pure & Appl. Chem., 74(5), 2002; 835 – 855

7. Selection of methods is based on analytes and the intended purpose of the analyses².

B. Supplementing other Codex Alimentarius Commission Guidelines

- 8. The Codex Alimentarius Commission (CAC) has issued a guideline³ for laboratories involved in the testing of foods for import/export which recommends that such laboratories should:
 - a. use internal quality control procedures, such as those described in the "Harmonized Guidelines for Internal Quality Control in Analytical Chemistry Laboratories;"
 - b. participate in appropriate proficiency testing schemes for food analysis which conform to the requirement laid out in "The International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories (Pure Appl. Chem., vol 78, No. 1, pp.145-186, 2006);" and
 - c. whenever available, use methods which have been validated according to principles provided by the CAC.
- 9. The analytical methods should be used within the internationally accepted, approved, and recognized laboratory Quality Management System⁴ to be consistent with the principles in the document for quality assurance (QA) and quality control (QC) referenced above.

C. Method Validation

10. The process of method validation is intended to demonstrate that a method is *fit-for-purpose*. This means that when a test is performed by a properly trained analyst using the specified equipment and materials and exactly following the method protocol, accurate, reliable, and consistent results can be obtained within specified statistical limits for sample analysis. The validation should demonstrate the identity and concentration of the analyte, taking into account for matrix effects, provide a statistical characterization of recovery results, and indicate if the frequency of false positives and negatives are acceptable. When the method is followed using suitable analytical standards, results within the established performance criteria should be obtained on the same or equivalent sample material by a trained analyst in any experienced residue testing laboratory. To ensure method performance remains appropriate over time, method validation should be continuously assessed (e.g. recovery spikes).

PERFORMANCE PARAMETERS FOR ANALYTICAL METHODS

11. The general requirements for the individual performance criteria of a method are summarized below^{1,5}

A. Method Documentation

- 12. After validation, the method documentation should provide, in addition to performance criteria (data quality objectives), the following information:
 - a. Identity of the analytes included in the residue definition.
 - b. Concentration range covered by the validation;
 - c. Matrices used in the validation (representative commodity categories, e.g., similar agricultural products based on characteristics including moisture, fat, and sugar content, pH);
 - d. Protocol describing the equipment, reagents, detailed step-by-step procedure including permissible variations (e.g. "heat at 100 ± 5 °C for 30 ± 5 min"), calibration and quality procedures, special safety precautions required, and intended application and critical uncertainty requirements:
 - e. quantitative result of the expanded measurement uncertainty (MU) for the method should be calculated in the validation procedure and reported, if required.

OECD Guidance Document on Pesticide Residue Analytical Methods, ENV/JM/MONO (2007)17

³ Guidelines for the Assessment of the Competence of Testing Laboratories Involved in the Import and Export Control of Food (CAC/GL 27-1997)

General requirements for the competence of testing and calibration laboratories, ISO/IEC 17025 (2005).

⁵ OECD Guidance Document for Single Laboratory Validation of Quantitative Analytical Method-Guidance used in support of pre-and post-registration data requirements for plant protection and biocidal products ENV/JM/MONO(2014)20

B. Selectivity

- 13. Ideally, selectivity should be evaluated to demonstrate that no interferences occur which significantly affect the analysis. It is impractical to test the method against every potential interferant, but it is required that common interferences are checked by analysing a reagent (process) blank for every batch of reagents. When reagents and/or solvents are changed between batches of samples, additional reagent blank evaluations could be performed. Background levels of plasticizers, septa bleed, cleaning agents, reagent impurities, laboratory contamination, carry-over, etc. tend to show up in reagent blanks and must be recognized by the analyst when they occur. Also, analyte-to-analyte interferences must be known by checking individual analytes in mixed standard solutions. Matrix interferences are evaluated by analyses of samples known to be free of the analytes and a matrix blank is required with each batch of samples or a standard addition approach to quantification is adopted (see Section E).
- 14. As a general principle, selectivity should be such that interferences have no impact on method performance. The ultimate test of selectivity involves the rates of false positives and negatives in the analyses. To estimate rates of false positives and negatives during method validation, an adequate number of blanks per matrix [not from the same source] should be analysed along with spiked matrices at the analyte reporting level.

C. Calibration

- 15. With the exception of errors in preparation of calibration materials, calibration errors are usually a minor component of the total uncertainty, and can be safely assigned into other categories. For example, random errors resulting from calibration are part of the uncertainty, while systematic errors cause analytical bias, both of which are assessed as a whole during validation and on-going quality control. Nevertheless, there are some characteristics of calibration that are useful to know at the outset of method validation because they affect optimization of the final protocol. For example, it must be known in advance whether the calibration curve is linear or quadratic, passes through the origin, and is affected by the sample matrix or not. The described guidelines in this document relate more to validation, which may be more detailed than the calibration undertaken during routine analysis.
- 16. Replicate measurements are needed to provide an empirical estimate of uncertainty. The following calibration procedures are recommended for the initial method validation:
 - determinations at five or more concentrations should be performed (consider multiple injections per concentration);
 - b. the reference standards should be evenly spaced over the concentration range of interest and the calibration range should encompass the entire concentration range likely to be encountered;
 - c. the reference standards should be dispersed over the whole sequence, or encompass the beginning and end of the run to demonstrate that calibration integrity is maintained over the entire sequence; and the fit of the calibration function must be plotted and inspected visually and/or by calculation of the residuals (differences between the actual and calculated concentrations of the standards), avoiding over-reliance on correlation coefficients. If residuals of the calibration curve deviate by more than $\pm 20 30$ % (30% for calibration concentrations near the instrument LOQ), statistical consideration of outliers should be made, possibly leading to re-analysis of the sequence if quality control criteria are not met.

D. Linearity

- 17. Linearity can be tested by examination of a plot of residuals produced by linear regression of the responses on the concentrations in an appropriate calibration set. Any curved pattern suggests a *lack of fit* due to a nonlinear calibration function. If this is the case, another function such as quadratic should be tested and applied, using at least five concentration levels. Despite its current widespread use as an indication of quality of fit, the coefficient of determination (R²) may be misleading because it places greater significance on standards with higher concentrations. In this case, an appropriate weighting factor such as 1/x or 1/x² should be considered to minimize the potential impact of the relative concentration range
- 18. In general, the use of weighted-linear regression or weighted-quadratic function is recommended rather than linear regression for low part per billion (µg/kg) concentration determinations. Ideally, the value of the intercept should be close to zero to reduce errors in calculating residue concentrations at low levels, although the calibration curve should not be forced through the origin without justification

E. Matrix Effects

19. Matrix-matched calibration is commonly used to compensate for matrix effects. Extracts of blank matrix, preferably of the same or similar type as the sample, should be used for calibration. An alternative practical approach to compensate for matrix effects in gas chromatographic (GC) analyses is the use of chemical components (analyte protectants) that are added to both the sample extracts and the calibration solutions in order to (ideally) maximize equally the response of pesticides in calibrants in solvent and sample extracts. Alternative ways to compensate for matrix effects involve the use of standard addition, isotopically labeled internal standards (IS), or chemical analogues. However, these approaches are often difficult in MRMs because there are too many residues in different matrices at different levels to devise routine procedures, and the lack of isotopically-labelled standards for so many analytes. Ideally, if isotopically labelled standards are available, such standards should represent the range of target compounds and recoveries should fall within the criteria for samples spiked with non-isotopically labelled standards. If solvent-only calibration is used, a measurement of matrix effects must be made to demonstrate equivalence of results by comparing responses of matrix-matched with solvent-only standards.

F. Trueness and Recovery

- 20. Trueness is the closeness of agreement between a test result and the accepted reference value of the property being measured. Trueness is stated quantitatively in terms of "bias," with smaller bias indicating greater trueness. Bias is typically determined by comparing the response of the method to a certified (if available) reference material with a known value assigned to the material. Multi-laboratory testing is recommended ideally. Where the uncertainty in the reference value is not negligible, evaluation of the results should consider the reference material uncertainty as well as the statistical variability from analysing the reference material. In the absence of certified reference materials^{1,5} guidelines recommend use of an available reference material that is well characterized for the purpose of the validation study.
- 21. Recovery refers to the proportion of analyte determined in the final result compared with the amount added (usually to a blank) sample prior to extraction, generally expressed as a percentage. Errors in measurement will lead to biased recovery figures that will deviate from the actual recovery in the final extract. Routine recovery refers to the determination(s) performed in quality control spikes in the analysis of each batch of samples.

G. Precision

- 22. Precision is the closeness of agreement between independent (replicate) test results obtained under stipulated conditions. It is usually specified in terms of standard deviation (SD) or relative standard deviation (RSD), also known as coefficient of variation (CV). The distinction between precision and bias depends on the level at which the analytical system is viewed. Thus, from the viewpoint of a single determination, any deviation affecting the calibration used in the analysis would be seen as a bias. From the point of view of the analyst reviewing a year's work, the analytical bias will be different every day and should act like a random variable with an associated precision, incorporating any stipulated conditions for the estimation of this precision.
- 23. For single-laboratory validation, two types of precision sets of conditions are relevant: (a) repeatability, the variability of measurements within the same analytical sequence, and (b) within-laboratory reproducibility, the variability of results among multiple sets of the same sample. It is important that the precision values are representative of likely test conditions. First of all, the variation in conditions among the runs should represent what would normally happen in the laboratory during routine use of the method. This can be done by on-going method performance validation/verification. For instance, variations in reagent batches, analysts, and instruments should be measured in ongoing quality control. Secondly, the test material used should be typical, in terms of matrix and (ideally) the state of comminution, of the materials likely to be encountered in real applications.
- 24. In single-laboratory validations, precision often varies with analyte concentration. Typical assumptions are that: (a) there is no change in precision with analyte level, or (b) that the standard deviation is proportional to, or linearly dependent on, analyte level. In both cases, the assumption needs to be checked if the analyte level is expected to vary substantially (i.e. when analyte level approaches LOQ).

25. Precision data may be obtained for a wide variety of different sets of conditions in addition to the minimum of repeatability and between-run conditions indicated here, and it may be appropriate to acquire additional information. For example, it may be useful to the assessment of results, or for improving the measurement, to have an indication of separate operator and run effects between- or within-day, or to have an indication of the precision attainable using one or several instruments. A range of different designs and statistical analysis techniques is available, and careful experimental design is strongly recommended in all such studies. The initial validation should be conducted at the targeted limit of quantification (LOQ) or reporting limit of the method, and at least one other higher level, for example, 2-10x the targeted LOQ or the MRL.

H. Limit of Quantification (LOQ)

26. By long-standing definition among analytical chemists, the LOQ is the concentration at which the average signal/noise ratio (S/N) equals 10 in the analysis. The LOQ in practice can only be estimated because precise determination of the actual LOQ requires many analyses of spiked samples and matrix blanks but the LOQ can change day-to-day due to the performance state of the instrument, among many other factors. Some validation guidelines require that the LOQ be verified to meet method performance criteria via spiking experiments at the LOQ, however day-to-day variations in LOQ tend to force the analyst to greatly over-estimate the actual method LOQ, which can be difficult to implement the strict definition of the LOQ (S/N = 10). Thus spiking at the Lowest Validated Level (LVL) is the more descriptive and proper approach. Furthermore, quantification of analytes should not be made below the lowest validated level (LVL) in the same analytical sequence. The S/N at the lowest calibrated level (LCL) must be ≥10 (conc. ≥ LOQ), which can be set as a system suitability check required for each analytical sequence. A quality control matrix spike can also be included in each sequence to verify that the reporting limit is achieved in the analysis (an action level that is typically >the LCL). In essence, the point of the validation is not to determine the LOQ, but to demonstrate that the lowest reported concentration is meeting the need for the analysis. While not useful for quantification, some analysts may wish to calculate the limit of detection (LOD) (S/N = 3) to infer the presence of the analyte at concentrations too low to permit an estimate of analyte concentration.

I. Analytical Range

27. The validated range is the interval of analyte concentration within which the method can be regarded as validated. The LVL is the lowest concentration assessed during validation that meets method performance criteria. It is important to realize that the validated range is not necessarily identical to the useful range of the instrumental calibration. While the calibration may cover a wide concentration range, the validated range (which is usually more important in terms of uncertainty) will typically cover a more restricted range. In practice, most methods will be validated for at least two levels of concentration. The validated range may be taken as a reasonable extrapolation between these points of concentration, but many laboratories choose to validate at a third level to demonstrate linearity. For monitoring residue concentrations with respect to Codex standards, the analytical method must be sensitive enough so that the LVL for each analyte is at or below the current Codex maximum residue limit (CXL). The validation range should cover the existing CXL. When a CXL does not exist, the lowest level may be MRLs established by a national regulatory authority. If no CXL or MRL exists for a given analyte/matrix pair, then 0.01 mg/kg or the LOQ (whichever is greater) generally serves as the desirable LVL. In MRMs, the typical analytical goal is to set the LVL (and reporting level) at 0.01 mg/kg in diverse, yet representative commodities.

J. Ruggedness

- 28. The ruggedness (often synonymous with robustness) of an analytical method is the resistance to change in the results produced by the analytical method when deviations are made from the experimental conditions described in the procedure. The limits for experimental parameters should be prescribed in the method protocol (although this has not always been done in the past), and such permissible deviations, separately or in any combination, should produce no meaningful change in the results produced. A "meaningful change" here would imply that the method would not meet the data quality objectives defined by the *fitness for purpose*. The aspects of the method that are likely to affect results should be identified, and their influence on method performance evaluated by using ruggedness tests.
- 29. Examples of the factors that a ruggedness test could address are: small changes in the instrument,, brand/lot of reagent or changes in operator; concentration of a reagent; pH of a solution; temperature of a reaction; time allowed for completion of a process, and/or other pertinent factors.

K. Measurement Uncertainty (MU)

- 30. The formal approach to measurement uncertainty estimation is a calculated estimate from an equation or mathematical model, around which the true value can be expected to lie within a defined level of probability. The procedures described in method validation are designed to ensure that the equation used to estimate the result, with due allowance for random errors of all kinds, is a valid expression embodying all recognized and significant effects upon the result. Further considerations and description of the measurement uncertainty are provided in "Guidelines on Estimation of Uncertainty of Results" 6.
- 31. It is preferable to express the uncertainty of measurement as a function of concentration and compare that function with a criterion of *fitness for purpose* agreed between the laboratory and the client or enduser of the data. One possibility is to calculate MU from proficiency test data⁶.

PERFORMANCE CRITERIA OF SCREENING METHODS

- 32. Screening methods are usually either qualitative or semi-quantitative in nature, with the objective being to discriminate samples which contain no residues above a threshold value ("negatives") from those which may contain residues above that value ("indicated positives"). The validation strategy therefore focuses on establishing a threshold concentration above which results are "potentially positive," determining a statistically based rate for false detect (positive or negatives), testing for interferences and establishing appropriate conditions of use. The screening concept offers laboratories an effective means to extend their analytical scope to analytes, which potentially have a low probability of being present in the samples. Analytes that occur more frequently should continue to be monitored using validated quantitative MRMs. As in quantitative methods, screening methods should also be checked in terms of selectivity and sensitivity. In some applications, commercial test kits may be useful, but current techniques have rarely met multi-residue screening needs economically in practice. Selectivity and analytical scope are often improved when chromatography or other form of separation is used prior to detection. Another approach is to use screening methods that involve mass spectrometry (MS)-based detection, which is able to distinguish particular chemicals from each other.
- 33. The selectivity of screening methods must be able to distinguish the presence of the target compound, or group of compounds, from other substances that may be present in the sample material. Selectivity of screening methods is normally less than that of a quantitative method. Screening methods can take advantage of a structural feature common to a group or class of compounds and may be based on immunoassays or spectrophotometric responses which may not unambiguously identify a compound.
- 34. The validation of a screening method based on a screening detection limit (SDL) can be focused on detectability. For each representative type of matrix (commodity group)⁷, a minimal validation should involve analysis of at least 5 samples spiked at the estimated SDL. The samples and at least 5 matrix blanks from different sources (e.g. obtained from different markets or different agricultural fields, etc.). More replicates of greater diversity provide for a better validation. A minimum of two different samples for each type of matrix should be suitable for the intended scope of the laboratory. Additional validation data can be collected from on-going QC-data and method performance verification during routine analysis. The SDL of the qualitative screening method is the lowest level at which an analyte has been detected (not necessarily meeting the MS-identification criteria) in at least 95% of the samples (e.g. an acceptable false-negative rate of 5%).

PERFORMANCE CRITERIA OF QUANTITATIVE METHODS

- 35. Selectivity is of particular importance in defining the performance criteria of quantitative methods used in regulatory control programs for pesticide residues in foods. Ideally, the method needs to provide a signal response that is free from interferences from other analytes and matrix compounds that may be present in a sample or sample extract. Chromatographic analyses based on peaks, which are not fully resolved, provide less reliable quantitative results. Use of element-specific detectors or different detection wavelengths or MS-based detectors which are better able to distinguish a particular compound or structure, combined with chromatographic separation, improves the selectivity of quantitative methods.
- 36. The requirement to recover a range of different pesticide residues in one extraction increases the potential for compromised selectivity in MRMs compared to single residue methods. Using less selective extraction and clean-up procedures is likely to result in greater co-extracted matrix material in the final extract. The nature and quantities of such co-extracted material can vary markedly based on the matrix, method, and analytes of interest. Care is therefore required when setting criteria for the precision and trueness of MRMs to ensure that quantification will not be affected by chemical interferences.

⁶ Estimation of Uncertainty of Results (CAC/GL 59-2006)

⁷ Table 5, Guidelines on Good Laboratory Practice in Pesticide Residue Analysis (CAC/GL 40-1993)

- 37. In addition to the selectivity of a method, the ability of the method to provide a reliable quantitative result must be demonstrated (i.e. trueness see section F and precision see section G). Ideally, the relative standard deviation between the original sample and replicates will be less than 20 percent.
- 38. Acceptability criteria for a quantitative analytical method should be demonstrated at both initial and ongoing validation stages, as being capable of providing acceptable mean recovery values at each spiking level. For validation, it is recommended that a minimum of 5 replicates be analysed (to check the recovery and precision) at the targeted LVL, LOQ, or reporting limit of the method, and at least one additional higher level, for example, 2-10x the LVL or the MRL. If a method is being used for compliance testing (i.e. if a commodity is compliant with an established MRL) the MRL (or CXL) should fall within the validated concentration range. When the residue definition includes two or more analytes, the method should be validated for all analytes.
- 39. The trueness of a method may be determined by analysis of a certified reference material, by comparison of results with those obtained using another method for which the performance criteria have previously been rigorously established (typically a collaboratively studied method), or by determination of the recovery of analyte fortified into known blank sample material. Acceptable mean recoveries for enforcement purposes should normally range from 70-120% with a RSD ≤20%. For very low concentrations (e.g. <0.01 mg/kg) some laboratories may accept method performance criteria that fall outside of these criteria (e.g. 60 − 120% with a RSD <30%). In certain cases (typically with MRMs), recoveries outside this range may be acceptable, such as when recovery is lower but consistent (e.g. demonstrating good precision). This is more justifiable if the reason for the systematic low bias is well established by chemistry (e.g. known analyte distribution between phases in a partitioning step). However, a more accurate method should be used, if practicable. Recoveries >120% are likely to be attributable to a positive interference or bias that should be investigated.
- 40. Analysis of incurred matrix to support method validation is encouraged. For interpreting recoveries, it is necessary to recognize that analyte spiked into a test sample may not behave in the same manner as the biologically incurred analyte (pesticide residue). In many situations, the amount of an extracted incurred residue is less than the total incurred residues actually present. This may be due to losses during extraction, intra-cellular binding of residues, the presence of conjugates, or other factors that are not fully represented by recovery experiments using analyte-fortified blank matrices. Often radio-labelled incurred residues or standard reference materials are required to assess recoveries of incurred residues.
- 41. At relatively high concentrations, analytical recoveries are expected to approach one hundred percent. At lower concentrations, particularly with methods involving extensive extraction, isolation, and concentration steps, recoveries may be lower than at higher concentrations. Regardless of what average recoveries are observed, recovery with low variability is desirable so that a reliable correction for recovery can be made to the final result, when required.
- 42. In general, residue data do not have to be adjusted for recovery when the mean recovery is within the range of 70-120%. Recovery corrections should be made consistent with the guidelines provided by the CAC/GL 37-20018. This will facilitate direct comparison of data sets. Correcting functions should be established on the basis of appropriate statistical considerations and documented, archived and made available to clients and reviewers. Data should (a) be clearly identified as to whether or not a recovery correction has been applied and (b) if applicable, include the amount of the correction and the method by which it was derived. This will promote direct comparability of data sets. Correction functions should be established on the basis of appropriate statistical considerations, and documented, archived and made available to the client.
- 43. In accordance with ISO IEC17025⁴, participation in a proficiency testing program should be done. Many proficiency testing schemes are available for laboratories worldwide that conduct pesticide residue monitoring. Inter-laboratory testing may also be performed.

PERFORMANCE CRITERIA OF METHODS FOR ANALYTE IDENTIFICATION AND CONFIRMATION

44. By far, gross errors (spurious mistakes made during sample preparation) are the greatest source of misidentifications in MS-based methods. For this reason, all regulatory enforcement actions (above an MRL or for those with no MRL on that commodity) require confirmation of the result via re-extraction of a replicate test portion of the original sample and re-analysis, ideally using different sample preparation and/or analysis.

Harmonized IUPAC Guidelines for the use of Recovery Information in Analytical Measurement. Pure & Appl. Chem., 71,1999; 337 – 348. CAC/GL 37-2001

45. Selectivity is the primary consideration for methods of identification. The method should be sufficiently selective to provide unambiguous identification. MS coupled to a chromatographic separation method is a very powerful combination for identification of an analyte in the sample extract. This method provides information about the structure of the analyte that is not obtainable with chromatography alone. GC-MS and LC-MS tools (full-scan, selected ion mode, high-resolution, tandem MS/MS, hybrid systems, among other advanced techniques) provide many measurable parameters, such as retention times, chromatographic peak shapes, ion intensities and relative abundances/ratios, mass accuracies, and other useful aspects to help make analyte identifications. However, successful methods can be developed and applied using non-MS based techniques (e.g. HPLC with photo-diode array detection, GC with element selective detection), especially if confirmation of the test result is done with alternative column chemistries.⁹

A. MS-Based Identification

- 46. There are no universally accepted criteria for identification. Table 1 gives examples of criteria.
- 47. Current practices in qualitative and quantitative analysis of pesticide residues commonly involve chromatography + selected ion monitoring (SIM) or MS/MS techniques. Full-spectral MS is also an acceptable tool that uses spectral library matching factors and/or relative abundances of major ions within the full spectra. The latter case can be treated as ion ratios in the criteria given below using at least 3 ions. In the former case, matching factors should be used for regulatory identification purposes, and the library reference spectra should be obtained from background-subtracted high purity standards on the same instrument using the same conditions as in the sample analysis. The following identification criteria should be met:
 - Analyte retention time reference values should be determined from contemporaneously analysed (within the same batch) high concentration matrix-matched calibration standards. Otherwise, if it is known that no interferences are present, solvent-based standard solutions can be used
 - b. Ion ratio reference values are to be set in the same way as in paragraph 47 a. The different ions used for identification must co-elute and have similar peak shapes. The ion from the calibration standard with the higher average intensity is to be used as the denominator in the ion ratio, expressed in percentage (due to signal fluctuations, matrix effects, etc.... deviations of ion ratios up to 30% are acceptable).
 - c. The signal to noise ratios for measured peaks must be greater than 3 and/or the signal should exceed the threshold intensity level as compared to the signal of a suitable calibration standard or control encompassing the level of interest.
 - d. The ion transitions chosen for identification purposes should make chemical/structural sense (be sure that the ions chosen do not originate from a degradant, impurity, or confusion with a different chemical than the analyte).
 - e. All measured reagent and matrix blank samples should be free of carry-over, contamination, and/or interferences with a response >20% of the LOQ. For matrix blank samples, 30% of LOQ may be acceptable.
 - f. For MS analyses, it is preferable to monitor ions with a mass/charge ratio greater than 100.
- 48. The minimum acceptable retention time for the analyte(s) should be at least twice the retention time corresponding to the void (dead) volume of the column. The retention time of the analyte in the extract should correspond to that of the reference value (47a) within ± 0.2 min or 0.2% relative retention time, for both gas and liquid chromatography (preferably ± 0.1 min if possible).
- 49. Methods based on high-resolution mass spectrometry are considered to provide improved reliability through accurate measurement of the mass/charge of the ion than cannot otherwise be obtained using unit-resolution mass spectrometry techniques. Different types and models of mass spectrometric detectors provide different degrees of selectivity, which relates to the confidence in identification. The example criteria for identification provided in Table 1.should only be regarded as guidelines for identification, not as absolute criteria to prove presence or absence of a compound.

⁹ Guidelines on Good Laboratory Practice in Pesticide Residue Analysis (CAC/GL 40-1993)

B. Confirmation

- 50. If the initial analysis does not provide unambiguous identification or does not meet the requirements for quantitative analysis, a confirmatory analysis is required. This may involve re-analysis of the extract or the sample. When a CXL/MRL is exceeded, a confirmatory analysis of another portion of the sample is required. For unusual pesticide/matrix combinations, a confirmatory analysis is also recommended.
- 51. If the initial confirmatory method is not based on an MS technique, the confirmatory methods should involve MS-based analyte identification. Moreover, the confirmatory methods should use an independent approach based on different chemical mechanisms (such as LC and GC separations). In some situations, confirmation by independent laboratories may be appropriate. Examples of analytical techniques that may be suitable to meet criteria for confirmatory analytical methods are summarized in Table 2.

Table 1. Identification criteria for different MS techniques

MS detector /	Typical systems		Requirement	s for identification	
characteristics	(examples)	Acquisition	minimum number of ions	other	
Unit mass resolution	quadrupole, ion trap, TOF	full scan, limited m/z range, SIM	3 ions		
MS/MS	triple quadrupole, ion trap, Q-trap, Q-TOF, Q- Orbitrap	selected or multiple reaction monitoring, mass resolution for precursor-ion isolation equal to or better than unit mass resolution	2 product ions	S/N ≥ 3°	
	High resolution	full scan, limited m/z range, SIM, fragmentation with or without precursor-ion selection, or combinations thereof	2 ions with mass accuracy ≤ 5 ppm ^{a,b, c}	Analyte peaks in the extracted ion chromatograms must fully overlap.	
Accurate mass measurement	MS: TOF or Q-TOF Orbitrap or Q- Orbitrap FT-ICR-MS sector MS	combined single stage MS and MS/MS with mass resolution for precursor-ion isolation equal to or better than unit mass resolution	2 ions: 1 molecular ion, (de)protonated molecule or adduct ion with mass acc. ≤ 5 ppma,c plus 1 MS/MS product ion ^d	Ion ratio within ±30% (relative) of average of calibration standards from same sequence	

a) preferably including the molecular ion, (de)protonated molecule or adduct ion

Table 2. Examples of detection methods suitable for the confirmatory analysis of substances

Detection method	Criterion	
LC or GC and MS	If sufficient number of fragment ions are monitored	
LC-DAD	If the UV spectrum is characteristic	
LC – fluorescence	In combination with other techniques	
2-D TLC – (spectrophotometry)	In combination with other techniques	
GC-ECD, NPD, FPD	Only if combined with two or more separation techniques	
LC-immunoaffinity	In combination with other techniques	
LC-UV/VIS (single wavelength)	In combination with other techniques	

b) including at least one fragment ion

 $^{^{}c)}$ < 1 mDa for m/z < 200

d) ≤5 ppm

e) in case noise is absent, a signal should be present in at least 5 subsequent scans

^{f)} if the mass accuracy of a precursor and its product ion is ≤ 5 ppm, ion ratio tolerance is optional.

ANNEX

DEFINITIONS

Analyte: The chemical substance sought or determined in a sample (CAC/GL 72-2009).

Analyte protectant: Compounds that strongly interacts to fill active sites in the gas chromatographic system, thereby reducing the analyte interactions with those active sites and yielding less peak tailing or losses, thus a higher analyte response.

Applicability: The analytes, matrixes, and concentrations for which an analytical method can be used satisfactorily (CAC/GL 72-2009).

Coefficient of Variation (CV): Often referred to as the Relative Standard Deviation (RSD). This is a measure of precision in quantitative studies comparing the variability of sets with different means.

Confirmation: The combination of two or more analyses that are in agreement with each other, at least one of which meets identification criteria.

Confirmatory method: A method that is capable of providing complementary information in agreement with a previous result. Ideally, a different subsample is analysed with a method involving a different chemical mechanism than in the first analysis, and one of the methods meets analyte identification criteria with an acceptable degree of certainty at the level of interest.

Degradate (degradant, degradation product): Component of a pesticide residue occurring in a commodity as a result of abiotic transformation of the pesticide (e.g. heat, light, moisture, pH, etc.)

False positive: A result wrongly indicating that the analyte is present or exceeds a specified concentration (e.g. CXL/MRL or reporting level).

False negative: A result wrongly indicating that the analyte is not present or does not exceed a specified concentration (e.g. CXL/MRL or reporting level).

Fortification: Addition of analytes for the purposes of determining the recovery (also known as spiking).

Identification: Process of unambiguously determining the chemical identity of all or any components of the residue definition.

Incurred residue: Residue occurring in a commodity resulting from specific use of a pesticide or from consumption by an animal or environmental contamination in the field, as opposed to residues present due to laboratory fortification of samples.

Interference: Intrinsic or extrinsic response unrelated to an analyte (e.g. noise) due to electronic, chemical, or other factors related to the instrumentation, environment, method, or sample.

Interferent: A chemical or other factor causing an interference

Internal standard (IS): A chemical added at a known amount to samples and/or standards in a chemical analysis, including the blank and calibration standards. This substance can then be used for calibration by plotting the ratio of the analyte signal to the internal standard signal as a function of the concentrations. This ratio for the samples is then used to obtain the analyte concentrations. The internal standard used needs to provide a signal that is similar to the analyte signal in most ways but sufficiently different so that the two signals are readily distinguishable from each other.

Limit of Detection (LOD): The lowest concentration or mass of the analyte that can be detected (but not quantified) in a sample. In practice, this is typically the analyte concentration at which the average signal/noise is 3.

Limit of quantification (LOQ): The smallest concentration of the analyte that can be quantified. It is commonly defined as the minimum concentration of the analyte in the test sample that can be determined with acceptable precision (repeatability) and accuracy under the stated conditions of the test. For the scope of this document, this is typically the analyte concentration at which the average signal/noise is 10. [See also paragraph 26].

Linearity: The ability of a method of analysis, within a certain range, to provide an instrumental response or results, proportional to the quantity of analyte to be determined in the laboratory sample (CAC/GL 72-2009).

Lowest Calibrated Level (LCL): The lowest concentration (or mass), which the determination system is successfully calibrated, through the analysis batch.

Lowest Validated Level (LVL): The lowest validated spiking level meeting the method performance criteria.

Matrix: The material or component (e.g. the food) that is sampled for pesticide residue studies.

Matrix blank: Sample material or sample portion containing no detectable concentration of the analytes of interest.

Matrix effect: An influence of the one or more undetected components from the sample on the measurement of the analyte concentration or mass.

Matrix-matched standards: Standard solutions prepared in final extracts of matrix blanks similar to that of the sample

Metabolite: Component of a pesticide residue occurring in a commodity as a result of biotic transformation (metabolism) of a pesticide in a biological system (e.g. plant, animal).

Multiresidue method (MRM): A method which can determine a large number of compounds typically from different chemical classes

Precision: Degree of variability of a measurement around a mean.

Quantitative method: A method capable of producing analyte concentration (determinative) results with trueness and precision that comply with established criteria.

Recovery: Amount measured as a percentage of the amount of analyte(s) (as per residue definition) originally added to a sample of the appropriate matrix, which contains either no detectable level of the analyte or a known detectable level. Recovery experiments provide information on both precision and trueness and thereby the accuracy of the method.

Relative Standard Deviation (RSD): The standard deviation, divided by the absolute value of the arithmetic mean, expressed in percentage. It refers to the precision of the method (also known as coefficient of variation-CV).

Repeatability: Precision usually expressed as RSD, obtained from the same measurement procedure or test procedure; the same operator; the same measuring or test equipment used under the same conditions; the same location and repetition over a short period of time (CAC/GL 72-2009).

Reproducibility: Precision (typically expressed as RSD) from observation conditions where independent test/measurements results are obtained with the same method on identical test/measurement items in different test or measurement facilities with different operators using different equipment (CAC/GL 72-2009).

Residue Definition: the spectrum of compounds to be analysed which may include the parent compound, metabolites, isomers, reaction products and/or degradants. The residue definition is typically determined by a regulatory body.

Ruggedness: A measure of the capacity of an analytical procedure to remain unaffected by small but deliberate various in method parameters and provides an indication of its reliability during normal usage (CAC/GL 72-2009).

Sample preparation: Involves the extraction of a test portion of the sample, its clean-up and other steps that lead to the sample solution for analysis.

Screening Detection Limit (SDL): Lowest level of fortification that has been shown to have certainty at a 95% confidence level.

Screening Method: A method that meets predetermined criteria to detect the presence, or absence, of an analyte or class of analytes, at or above the minimum concentration of interest.

Selectivity: The extent to which a method can determine particular analyte(s) in a mixture(s) or matrices(s) without interferences from other components of similar behaviour (CAC/GL 72-2009).

Sensitivity: Quotient of the change in the indication of a measuring system and the corresponding change in the value of the quantity being measured (CAC/GL 72-2009).

SIM: selected ion monitoring, a mass spectrometry detection technique

Single Residue Method: A method which determines a single analyte or a small group of analytes with similar physico-chemical properties.

Standard addition: The method of standard addition is a type of quantitative analysis approach sometimes used in analytical chemistry whereby a known quantity of analyte is added directly to the aliquots of final extracts.

TOF: Time of flight, a detection methodology used in mass spectrometry.

Trueness: The closeness of agreement between the average of an infinite number of replicate measured quantity value and a reference quantity value (CAC/GL 72-2009).

Uncertainty: A parameter associated with the result of a measurement that characterizes the dispersion of values that could reasonably be attributed to the measurement.

APPENDIX XIV

(Part A)

TABLE 1: CCPR SCHEDULE AND PRIORITY LISTS OF PESTICIDES (NEW COMPOUNDS, NEW USES AND OTHER EVALUATIONS) 2018 CCPR SCHEDULE OF JMPR EVALUATIONS (PROPOSED) - NEW COMPOUND EVALUATIONS

(For approval)

Date Stamp	TOXICOLOGY	RESIDUE	Prioritisation criteria	Commodities	Residue trials provided
No. 1 Circa 2012	Chlorfenapyr Tox 2012	Chlorfenapyr [BASF] (254)	Registered MRLs > LOQ ??	Soybean, tea	Soybean (10), tea (6)
No. 2 6 Dec 2013	Ethiprole (999) (insecticide) [Bayer CropScience] – Germany	Ethiprole (999)	Registered MRLs > LOQ	Coffee; rice and food of animal origin	Coffee (15); rice (12)
No. 3 Pre 2014 [moved from 2015 at the request of manufacturer] Request by US / Japan to reschedule the residue evaluation to 2019 but keep the toxicology evaluation for 2018, if the full evaluation is not possible given the prioritization criteria	Pyrifluquinazon (999) (insecticide) [Nihon Nohyaku] Japan	Pyrifluquinazon	Registered Japan; KOREA; Expected U.S. registrations by 5/22/2018 MRLs > LOQ ??	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
No. 4 27 Nov 2014	XDE-777 (999) Dow AgroSciences United Kingdom fungicide	XDE-777 (999) Dow AgroSciences; France	Registered - Soon MesoAndean countries (2015-6); UK (2018) MRLs > LOQ – Y	Bananas,	Banana – 8 trials,
No. 5 25 March 2015	Norflurazon USA (herbicide) (999) [TessenderloKerley Inc.]	Norflurazon (Moved from 2016 at request of nominator)	Registered MRLs > LOQ	Almond; apple; apricot; asparagus; avocado; blackberry; blueberry; cranberry; cherry (sweet /tart); citrus fruits group; cottonseed; grape; hazelnut; hops; nectarine; peach; peanut; pear; pecan; plums and prunes; raspberry; soybean; 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

Date Stamp	TOXICOLOGY	RESIDUE	Prioritisation criteria	Commodities	Residue trials provided
No. 6 2 Sept 2015 [Moved from 2017 on request]	Pydiflumetofen SYN545794 (999) (fungicide) Canada [Syngenta]	Pydiflumetofen SYN545794 (999)	Registered in Argentina MRL>LOQ	Soybean seed; Pulses (dry beans, dry peas, lentils, chickpeas), grapes; fruiting vegetables; cucurbits; leafy vegetables; potato; corn; wheat; barley; oats, peanuts, apples, canola	Wheat (33 trials), barley (21 trials), oats (22 trials), canola (21 trials), grapes (12 trials), apples (8 trials),dry beans (11 trials), dry peas (10 trials), fruiting vegetables (tomato (12 trials), bell and non-bell peppers (9 trials)), leafy vegetables (head and leaf lettuce (16 trials), spinach (8 trials), celery (8 trials)), cucurbits (cucumber (7 field and 3 protected), squash (6 trials), cantaloupe (6 trials)), com (field and popcorn (23 trials), peanuts (12 trials), soybeans (21 trials), potatoes (26 trials)
No. 7 30 October 2015 and revised nomination form on 25 Nov 2015	Fluazinam (999) [ISK Biosciences; Ishihara Sangyo Kaisha] USA (fungicide)	Fluazinam (999)	Registered MRLs > LOQ	USA- Apples; Mayhaw; Brassica (Cole) Leafy Vegetables plus Turnip greens; Bushberry; Carrot; Ginseng; Lettuce, Head and Leaf; Edible-podded Legume Vegetables, Except Peas; Succulent Bean, includes Lima Bean, Except Peas; Succulent Bean, includes Lima Bean, Except Peas; Melons; Peas and Soybeans; Onions, Bulb; Melons; Squashes/ Cucumbers; Peppers/ Eggplants; Peanuts; Tuberous and Corm vegetables; Soybean; Wine grape; Tea	USA&CAN: Apple (20); Broccoli (13); Cabbage (20); Mustard greens (11); Blueberry (13); Carrot (13); Ginseng (5); Head lettuce (7); Leaf lettuce (7); Succulent beans (11); Lima beans (7); Dried beans (18); Onion (9); Cantaloupe (11); Cucumber (6); Summer squash (6); Bell pepper (9); Non-bell pepper (4); Peanut (10); Potato (12); Soybean (16); USA, CAN, GRC, FRA, ITA, DEU, ESP, CHL: Grape (23) JPN: Tea (5)
No. 8 30 Oct 2015	Pyriofenone (999) [IshiharaSangyoKai sha/ISK Biosciences] USA	Pyriofenone(999)	Registered in EU, JP and CA MRLs > LOQ	USA- Berries and other small fruits; Fruiting vegetables; Mango	USA&CAN: Grape (12); Strawberry (9); Blueberry (10); Blackberry (6); Kiwi (3); Cucumbers (9); Summer Squash (9); Cantaloupe (5); BRA: Mango (4); EU: Table and Wine Grapes (20)
RESERVE 3 Nov 2015	Tioxazafen(999) [Monsanto]- USA (nematicide)	Tioxazafen and its metabolite benzamidine(999)	Registered? no MRLs > LOQ? Corn, cotton seed no, soybean seed yes	USA- Corn, cotton, soybean	Corn (22), Cotton (13), Soybean (22)
RESERVE 4 Dec 2015	Mandestrobin (999) Canada - USA (fungicide) [Sumitomo Chemical]	Mandestrobin	Registered, MRLs>LOQ	Canola, Grape, Strawberry	Canola (23); Grape (16); Strawberry (10)

2018 NEW USES AND OTHER EVALUATIONS

DATE	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
1 - Priority 1 24/10/2015		Cyantraniliprole [DuPont] USA	USA- FRUITING VEGETABLES, OTHER THAN CUCURBITS (EXCEPT SWEETCORN); GRAPES; STRAWBERRIES; CUCURBIT VEGETABLES (GREENHOUSE); OLIVES; ARTICHOKE, GLOBE; MANGOS; CRANBERRIES; RICE	[fruiting vegetables - tomatoes (19), peppers (24)]; grapes (18); strawberries (29); [cucurbit vegetables (greenhouse cucumbers) (5)]; olives (9); artichokes, Globe (5); mangos (8); cranberries (6); rice (6)
2- Priority 1 11 June 2015 Moved from 2017		Isoxaflutole [Bayer CropScience] (268)	SOYA BEAN (LABEL REVIEW)	
3- Priority 1 30/09/2016		Abamectin [Syngenta] (177)	CANEBERRY, SWEETCORN, GREEN ONION, BEANS - SHELLED, SOYBEAN, PINEAPPLE GRAPE, MANDARIN, PUMMELO (THAILAND) SPINACH (ALTERNATIVE GAP)	Caneberry (7), sweetcorn (12), green onions (5), lima bean (7), soybean (20), pineapple (8), grape (13)
4 - Priority 1 30/09/2016		Fludioxonil [Syngenta]	CARROTS, CELERY, GUAVA, PINEAPPLE, KALE, POMEGRANATE DRY PEAS (CANADA)	Carrots (4), celery (8), guava (5), pineapple (4), mustard green (7), cabbage (6), broccoli (6), pomegranate (4) Dry peas (8 trials)
5- Priority 1 30/09/2016		Lufenuron [Syngenta]	CITRUS, COFFEE, CORN, APPLE CARAMBOLA (MALAYSIA) [LABEL SUBMITTED]	citrus (12), coffee (7), corn (4), Carambola (4)
6 -Priority 1 30/09/2016		Metalaxyl-M [Syngenta] (212)	COCOA BEANS (4 YEAR RULE GRANTED IN 2014), REPUBLIC OF KOREA (GINSENG)	Syngenta Cocoa (8) Korea Ginseng (4)
7 - Priority 1 30/09/2016		Diquat [Syngenta] (031)	CEREALS-WHEAT, BARLEY, OAT (AUSTRALIA); PULSE (CANADA)-4 YEAR RULE (2014)	Dry peas (8 trials), dry beans (10 trials), lentils (8 trials), chickpeas (9 trials)
8 - Priority 1 9 Nov 2016		Oxathiapiproline (999) [Syngenta]	DUPONT: POPPY, HOPS, SUNFLOWER, SOYBEAN SYNGENTA – POTATO, CITRUS (BOTH SOIL USES); SYNGENTA/IR-4: ASPARAGUS, CANEBERRY, MUSTARD GREENS, BASIL,	DuPont: poppy (5), hops (5), sunflower (8), soybean (8) Potato (16), Citrus (12 orange, 6 grapefruit, 5 lemon); Syngenta/IR-4: asparagus (10), caneberry (5), mustard greens (10), basil (8
9 - Priority 1 28 Nov 2016 Moved from 2017 on request	Pyraclostrobin (210) [BASF] Partly applicable: Evaluation of metabolite data being relevant for new uses	Pyraclostrobin (210) Registered? Yes MRLs > LOQ? Yes - all commodities listed for evaluation:	POME FRUITS, OLIVES, PERSIMMON, TROPICAL FRUITS (MANGO, PAPAYA, PASSION FRUIT, PINE APPLE), LEEK, BRASSICA VEGETABLES, FRUITING VEGETABLES, CORN SALAD (LAMB'S LETTUCE), SPINACH, LEGUME VEGETABLES (BEANS AND PEAS), ROOT AND TUBER VEGETABLES, STEM VEGETABLES, RICE, SUGAR CANE, PEANUTS, CACAO, COFFEE, TEA	Pome fruits (20), avocado (4), olives (12), persimmon (3), tropical fruits (mango (8-10), papaya (4-8), passion fruit (8), pine apple (8)), leek (8), brassica vegetables (20), fruiting vegetables (15), corn salad (lamb's lettuce) (4), spinach (extrapolation from lettuce, head (29)), legume vegetables (beans and peas) (43), root and tuber vegetables (46), stem vegetables (33), rice (about 20), sugar cane (48), peanuts (31), cacao (4), coffee (7), tea (8 - 10)
10 - Priority 1 30/11/2016		Cyazofamid [ISK Biosciences] USA	USA- HERBS, BULB VEGETABLES	USA- Fresh Chive (9); Dried Chive (5) Green Onions (5); Dry Bulb Onions (10)
11 - Priority 1 30/11/2016		Isofetamid [IshiharaSangyoKaisha] USA	USA- POME FRUITS; STONE FRUITS; BERRIES AND OTHER SMALL FRUITS; LEGUME VEGETABLES; PULSES; SOYBEAN	USA&CAN: Apple (20); Pear (10); Peach (13); Plum (9); Cherry (15); Blueberry (10); Raspberry (5); Kiwi (3); Dry pea (11); Dry bean (15); Succulent pea (10); Succulent bean (13); BRA: Soybean (4)
12 - Priority 1 16 Nov 2016		Mandipropamid [Syngenta]	COCOA, POTATO	Cocoa (8), potato (26)
13 - Priority 1 28 Nov 2016		Profenofos (171) Brazil Syngenta	COFFEE – REGISTERED IN BRAZIL	Syngenta Coffee (7)
14 - Priority 1 Moved from 2017 on request 01/01/17		Fluxapyroxad (256) [BASF]	CITRUS, CITRUS OIL, COFFEE, SUCCULENT BEANS AND PEAS, COTTONSEED, POTATO, MANGO, PAPAYA, ALFALFA, WHEAT, PEANUT OIL	Citrus (26), citrus oil (2), coffee (5), succulent beans and peas (18), cottonseed (14), potato (16), alfalfa (10), wheat (10), peanut oil (2), mango, papaya

DATE	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
15 - Priority 1 01/01/17		Bentazone [BASF] (172)	FIELD PEA (USA) - 4 year rule granted in 2014	
16 - Priority 1 9 March 2017		Propamocarb (148) [Bayer CropSciences]	FEEDING STUDIES	
17 - Priority 1 12 April 2017	Spiromesifen (294) India	Spiromesifen (294) India	BASIL [Thailand] Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, grean pea, bitter gourd, cucumber, brinjal and capsicum), grapes, tea	Await field trial information NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED
18 - Priority 1 12 April 2017	EU (tox) PROCEED WITH TOX REVIEW	Lambda-cyhalothrin (146) India	CHINESE BRASSICA [Thailand] Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, Tea, cumin	Await field trial information NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED
19- Priority 1 14 Apr 2017	[Valent USA Corporation; subsidiary of Sumitomo Chemical Co., Ltd.]- USA	Pyriproxyfen (200) - Costa Rica (from 2016 on request)	COSTA RICA: BANANA; PHILIPPINES: PAPAYA; MALAYSIA/SINGAPORE: MANGO; PANAMA: PINEAPPLE USA- CUCURBIT VEGETABLES CANADA - GREENHOUSE TOMATOES, AND GREENHOUSE BELL PEPPERS	Summer Squash (6), Cucumber (6), Cantaloupe (7) Greenhouse tomatoes (11), greenhouse bell peppers (8) Banana (12), papaya (6), mango (6), pineapple (6)
20 - Priority 1 24 April 2017	Sulfoxaflor (252) [Dow AgroSciences] USA - Re- evaluation of developmental tox, new data	Sulfoxaflor [Dow AgroSciences] USA Request for new MRLs, based upon new residue data	Kenya, Tanzania, Uganda: passion fruit; Ghana and Senegal: mango TREE NUTS (USA), RICE, CORN, SORGHUM, COCOA, PINEAPPLE, BEAN	Passion fruit (6); mango (6

2018 PERIODIC REVIEW

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Not supported by the manufacturer Concern Form lodged	Bromopropylate (70)	The active substance was first included in 1973 and re-evaluated in 1993, but not since. In the evaluation of 1993 an ADI was set at 0.03 mg/kg bw/d but no ARfD. Since no ARfD was ever set and data for evaluation are missing (supervised field trials, processing studies), the MRLs should be re-evaluated after 41 years	Since in 1993 it was not yet common practice to set an ARfD, EFSA used the ADI to assess the acute effects in the short term intake. A risk assessment was performed using the EFSA PRIMo including the existing CXLs for citrus fruits, pome fruits and grapes. The highest chronic exposure was calculated for the German child, representing 124% of the ADI. Since there were no supervised field trials complying with the critical GAP or reliable processing studies, the intake could not be further refined. The acute intake assessment (using the ADI-value) shows exceedance of the toxicological reference value for citrus fruits (884% for oranges, 594% for grapefruit, 371% for mandarins, 230% for lemons, and 134% for limes), pome fruits (653% for apples, 607% for pears), table grapes (437%) and wine grapes (158%). For further details see EFSA evaluation on the internet at http://www.efsa.europa.eu/en/efsaiournal/doc/1640.pdf.	1993	0.03 - 1993	N/A
Kresoxim-methyl (199) Periodic evaluation (BASF) FROM 2017	Kresoxim-methyl (199) Registered? Yes MRLs > LOQ? fungicide	Citrus, pome fruits, stone fruits, strawberry, small berries, sunflower, grapes, grape leaves, dried grapes, bulb vegetables, leek, cucurbits - inedible peel, cucurbits - edible peel, wheat, barley, straw and fodder of cereals, olives, mango, pecans, beetroots, bell peppers, tomato, egg plants, animal products	Citrus (19), pome fruits (37), stone fruits (10), strawberry (24), small berries (6), sunflower (10), grapes (12), grape leaves (16), bulb vegetables (16), leek (16), cucurbits - inedible peel (14), cucurbits - edible peel (8), wheat (20), barley (14), straw and fodder of cereals (34), olives (8), mango (4), pecans (6), beetroots (10), bell peppers (10), tomato (12)	1998	0.4 (1998)	NR (1998)
Clethodim (187) USA Arysta LifeScience From 2017	Clethodim (187)	Bean; broccoli; cabbage; carrot; cranberry; cucurbits; hops; lettuce; pea; strawberry; blueberry USA – Artichoke; Caneberry; Safflower, Apple, Pear, Cherry, Peach, Plum	Blueberry (9) – Awaiting further advice Artichoke (3); Caneberry (6); Safflower (4); Apple (14), Pear (6), Cherry (15), Peach (9), Plum (6)	1994	0.01 1994	NR 2004
Metalaxyl (138) Quimicas del Vallés - SCC GmbH CCPR49 agreed that no further postponement of this review will be acceptable. The advancement of metalaxyl-M MRLS at step 7 since 2004 is contingent upon the metaxyl review.	Metalaxyl (138)	Review in 2004 for residues was for evaluation of metalaxyl-M; support from Quimicas del Vallés - SCC GmbH; USA – Grapes; tomatoes; potatos; lettuce; oranges; strawberries; broccoli; cauliflower; head cabbage; onion Supervised trials by Thailand – PINEAPPLES	Grapes (21); tomatoes (20); potatos (16); lettuce (10); oranges (4); strawberries (8); broccoli (8); cauliflower (4); head cabbage (4); onion (8) Thailand – pineapples (confirmed)	2004	0.08 2004	NR 2004
Flumethrin (195) [Bayer CropScience]	Flumethrin (195)	Cattle milk; cattle meat		1996	0.004, 1996	N/A

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Imazalil (110) [Janssen] First reserve for 2017	Imazalil (110)	Support / Retain: Banana, Citrus fruits (Grapefruit, oranges, lemons, limes mandarins), Cucumber, Melons, except watermelons, Pome fruits (Apples, pear), Potato, Wheat, Wheat straw & fodder, dry Add Gerkin, Courgette (zucchini), Barley, Maize, Millet, Oats, Rye, Sorghum, Barley straw fodder dry, tomato Not supported Persimmon, Raspberry, Strawberry	Pome fruit: 39, Banana: 8, Cereal (seed treatment): 8, Citrus: 36, Cucurbits (edible peel plus melon): 17, Potatoes: 24, Tomatoes: 10 EU – public health concerns - The active substance has not been re-evaluated for residues since it was included the first time in 1977. Toxicological re-evaluation was done in 2000 and an ARfD was derived in 2005. (seeCX/PR 12/44/14-Add. 1 March 2012) As a consequence of this ARfD a couple of MRLs are not safe for consumers. Due to the fact that no periodic re-evaluation of residue took place since 35 years all MRLs should be reviewed. From EFSA evaluation an ADI of 0,025 mg/kg bw and an ARfD of 0.05 mg/kg bw (ADI, 2001). This is in line with the current JMPR values of 0.03 mg/kg bw (ADI, 2001) and 0.05 mg/kg bw (ARfD, 2005). A risk assessment was performed using the EFSA PRIMo including the current CXLs for banana, citrus fruit, cucumber, gherkins, melons exc. watermelons, Japanese persimmons, pome fruit, potato, raspberries, strawberries and wheat. Due to the rather old residue evaluation a refinement using HR and STMR values was impossible. Distribution between pulp and peel was not taken into account. As can be seen from this rather rough estimation ADI is exceed for a couple of WHO clusters, i. e. cluster B, E, F, D, with residues in potatoes account for a major part of the residues. It can also be stated that for European consumers children are most likely at risk. For European consumers the ARfD is exceeded for potatoes, pome fruit, Japanese persimmon as well as for citrus fruit, banana and melons, not taking into account distribution between peel and pulp. Changing the variability factor to 3 as used by JMPR will change the outcome of the assessment dramatically. Potatoes, pome fruits as well as citrus fruit, bananas and melons, not taking into account distribution between peel and pulp are still exceeding the ARfD. Await advice from JMPR on public health concerns	1994R, 2005T	0.03 2001	0.05 2005

APPENDIX XIV (Part B)

TABLE 1: CCPR PRIORITY LISTS OF PESTICIDES (NEW COMPOUNDS, NEW USES AND OTHER EVALUATIONS) 2019 NEW COMPOUND EVALUATIONS

Date Stamp	TOXICOLOGY	RESIDUE	Prioritisation criteria	Commodities	Residue trials provided
Pre 2014 [moved from 2015 at the request of manufacturer] Request by US / Japan to reschedule the residue evaluation to 2019 but keep the toxicology evaluation for 2018, if the full evaluation is not possible given the prioritization criteria	Pyrifluquinazon (999) (insecticide) [Nihon Nohyaku] Japan	Pyrifluquinazon	Registered Japan; KOREA; Expected U.S. registrations by 5/22/2018 MRLs > LOQ ??	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
5 April 2015 Not confirmed	SYN546330 [Syngenta] (insecticide)	SYN546330	Registered? No MRLs > LOQ? Yes	Soybean dry, Pome fruit, Citrus, Cotton, Fruiting vegetables, Cucurbits, Okra	Soybean dry (8), Pome fruit (8), Citrus (16), Cotton (4), Fruiting vegetables (Tomato 13, Pepper 13), Cucurbits (Cucumber 8, Melon 8), Okra (8)
4 Dec 2015 Not confirmed	Afidopyropen (999) [Meiji SeikaPharma/ BASF] [USA] (insecticide)	Afidopyropen [BASF] (999)	Registered? N March 18 MRLs>LOQ? y	USA- Citrus fruits, Pome fruits, Stone fruits, Brassica (Head, flowering), Fruiting vegetables (tomatoes, peppers), Fruiting vegetables (Cucurbits), Leafy (head, leafy lettuce, spinach), Brassica, leafy (Mustard greens), Soybeans, Potatoes, Celery, Tree nuts, Cotton	Citrus (lemon, 8; oranges, 12; grapfruit, 6); pome fruit (apple, 15; pear, 9); stone fruit (peaches, 13; plum, 10; cherry, 8); Brassica (head cabbage, 10; broccoli, 10); cucurbits (cucumber, 9; cantaloupe, 8, squash, 10); fruiting vegetables (tomatoes, 20; sweet bell peppers, 7; nonbell peppers, 3); leafy lettuce (8); head lettuce (9); spinach (9); mustard greens (8); soybean (20); potato (20); celery (10); tree nuts (almonds, 5; pecans, 5; pistachios, 3); cotton

Date Stamp	TOXICOLOGY	RESIDUE	Prioritisation criteria	Commodities	Residue trials provided
4 Dec 2015 Priority 1 22 Nov 2016 Request to reschedule from 2018 to 2019	Metconazole (999) [Valent USA Corporation, on behalf of Kureha Corporation Japan] (fungicide)	Metaconazole [Valent USA Corporation] (999)	Registered US MRLs > LOQ	USA- Stone fruit group; Blueberry; Banana; Garlic; Onion, Bulb; Legume vegetables; Pulses; Soya bean; Root and tuber vegetables1 (except Sugar beet (root)); Sugar beet (roots); Barley; Maize; Oats; Rye; Triticale; Wheat; Sugar cane; Tree nuts; Oilseed (except Cotton seed, Peanuts, Soya bean and Sunflower)**; Cotton seed; Peanuts; Sunflower seed; Meat (from mammals other than marine mammals); Mammalian fats (except milk fats); Edible offal (Mammalian); Milks; Poultry meat; Poultry fats; Poultry, Edible offal; Egg; Peanut oil, crude	USA- Banana (12), barley grain (28), blueberry (11), cotton seed (12), corn/maize (20), sweet corn (12), tree nuts (10), peanuts (14), soya bean (30), stone fruits (22), sugar beet roots (12), sugarcane cane (8), sunflower (12), oats (12), rape oilseed (16), dried shelled peas pulses (15), dry beans (19), triticale wheat (31), potato (32), fresh legumes, peas without pod (13), onion (4), garlic (3)
19 April 2016 Priority 1	Triflumuron [Bayer]	Triflumuron [Bayer]	Registered Y	Soybean	
30 Nov 2016	Orthosulfamuron (999) (herbicide) [Nihon Nohyaku Co., Ltd.] US, Brazil	Orthosulfamuron	Registered US, Brazil MRLs > LOQ	Rice (US, Brazil); Sugarcane (Brazil)	Rice (16 US, 4 Brazil); Sugarcane (8 Brazil)
28 Nov 2016	Pyflubumide (999), (insecticide), [Nihon Nohyaku Co., Ltd.] Japan	Pyflubumide	Registered Japan MRLs > LOQ	Tea	Tea (6)
16 March 2017	Pyridate [Belchim Crop Protection]	Pyridate	Registered Y MRL > LOQ	Alfalfa, cabbage, kale/collard, clover, Leek /spring onion/chive, Onion/shallot/garlic, chickpea	Alfalfa, cabbage, kale/collard, clover, Leek /spring onion/chive,, Onion/shallot/garlic, chickpea Number of field trials to be advised
16 March 2017	Valifenalate [Belchim Crop Protection]	Valifenalate	Registered Y MRL > LOQ	Grape, Tomato/aubergine, Onion/shallot/garlic	Grape, Tomato/aubergine, Onion/shallot/garlic Number of field trials to be advised

2019 NEW USES AND OTHER EVALUATIONS

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
1- Priority 1		Chlorantraniliprole (230)	PALM OIL (MALAYSIA) LABEL PROVIDED ON 18 JULY 2016	Palm oil (8)
18 July 2016		[Dupont]	Pulses	
2 - Priority 1 30/09/2016 Syngenta requested move from 2018	Chlorothalonil (81); (fungicide) [Syngenta]	Chlorothalonil (81); (fungicide) [Syngenta]	orange; lemon; grapefruit; lettuce; strawberry; almond; radish (root veg); mustard greens; guava; lychee, USA- CRANBERRY (under the 4 year rule).	Orange (12), Lemon (5), Grapefruit (6), Lettuce (13), Strawberry (8), Almond (5) radish (7); mustard greens (9); guava (5); lychee (4) cranberry (5)
3 - Priority 1 30/09/2016 Syngenta requested move from 2018		Mesotrione [Syngenta]	CITRUS, POME FRUIT, STONE FRUIT, TREE NUTS	Citrus – orange, grapefruit, lemon (23), Pome fruit – apple, pear (18), Stone fruit – cherry, peach, plum (21), Tree nuts – almond, pecan (10)
4- Priority 1 30/09/2016		Thiabendazole [Syngenta]	LEGUMES AND PULSES	Legumes and pulses (48)
5 - Priority 1 21 Nov 2016		S-Methoprene Wellmark International - EPA Reg. No. 2724-442	PEANUTS	Peanuts (1) - (4 farm sites, 5 different peanut varieties)
6 - Priority 1 25 Nov 2016		Tebuconazole [Bayer] (189)	CITRUS	4 trials orange, 4 trials mandarin, 3 processing trials (orange)
7 - Priority 1 25 Nov 2016		Flupyradifurone [Bayer] (285)	BLACKBERRY, RASPBERRY, AVOCADO, POMEGRANATE, HOP, COCOA AND COFFEE	Blackberry (4), raspberry (7), avocado (4), pomegranate (4), hop (11+2p), cocoa (9+2P) and coffee
8 - Priority 1 30 Nov 2016	Boscalid Evaluation of metabolite data being relevant for new uses	Boscalid (221) [BASF]	Yes - all commodities listed for evaluation: POME FRUITS, TROPICAL FRUITS (AVOCADO, MANGO, PAPAYA, POMEGRANATE), CUCURBITS, SUGAR CANE, TEA, HERBAL INFUSIONS (GINSENG)POME FRUITS, TROPICAL FRUITS (AVOCADO, MANGO, PAPAYA, POMEGRANATE), CUCURBITS, SUGAR CANE, TEA, HERBAL INFUSIONS (GINSENG)	Pome fruits (54 field and 6 postharvest trials), cherry (55), tropical fruits (avocado (7) mango (9)), berries (strawberry (54 field and 31 greenhouse trials), raspberry (37), blackberry (4), blueberry (20)), cucurbits edible peel (22 greenhouse and 35 field trials), cucurbits inedible peel (54 field and 6 greenhouse trials), ginseng (extrapolation from carrot, 8 field trials), tea (8)
9- Priority 1 1 Dec 2016		Mandestrobin Canada (999)	STRAWBERRY, GRAPE, CANOLA	Strawberry (10), grape (16), canola (23)
10 - Priority 1 6 Dec 2016		Pendimethalin (292) (herbicide) [BASF] – USA	CANE BERRIES (FB 2005), BUSH BERRIES (FB 2006),	Raspberry (3), Blackberry (4), Blueberry (7), Strawberry (8), Mint (4)
11 - Priority 1 8 Dec 2016		Fosetyl-Al [Bayer] (999)	PEACH, BLACKBERRY, RASPBERRY, BLUEBERRY, CRANBERRY, KIWI, CABBAGE, BROCCOLI, CAULIFLOWER, GREEN MUSTARD, KALE, CELERY, CHICORY WITLOOF, COFFEE, SPICES	Peach (9), blackberry (12), raspberry (6), blueberry (3), cranberry (5), kiwi (8), cabbage (28), broccoli (10), cauliflower (15), green mustard (14), kale (4), celery (5), chicory witloof (8), coffee (5), spices (7)
12 -Priority 1 March 2017		Cyantraniliprole [DuPont] USA	CRANBERRY, BLUEBERRY, ALMOND	cranberry (7), blueberry (8), almond (12)
13 - Priority 1 25 April 2017		Cyprodinil (207) [Syngenta]	SOYBEAN (Brazil)	TBA
14 - Priority 1 25 April 2017		Azoxystrobin (229) [Syngenta]	COFFEE (Brazil) higher GAP	ТВА

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
15 - Priority 1 26 April 2017		Dicamba (240) USA [Monsanto]	COTTON, SOYBEAN	Cotton (13), soybean (22)
Priority 1 30/09/2016 NOT FOR EXTRA MEETING		Trinexapac [Syngenta]	RICE, RYE	Rice (16), rye (extrapolation from wheat barley)
23 Nov 2016		Acetochlor (280) [Monsanto Co.]	Soya bean	Soybean (21)
30/09/2016 Syngenta requested move from 2018		Benzovindiflupyr (261) [Syngenta]	Blueberry, onion (dry), onion (green), sugar cane	Blueberry, onion (dry and green) (14), sugar cane (8)
Moved from 2018 - quota full		Bifenthrin [FMC] (178)	Barley; barley (straw fodder); - 4 year rule granted in 2014 strawberry, Lettuce head, celery (alternative GAP) okra - India	
Moved from 2018- quota full	Moved from 2017	Penthiopyrad (253) USA	USA – Blueberry; Caneberry	Blueberry (9) and Cranberry (7)
Moved from 2018 - quota full		Fluensulfone (265) [Adama]	cereal, tree nut, stone fruit, pome fruit, corn, guava, cotton	Cereal (56), tree nut (10), stone fruit (21), pome fruit (26), corn (21), guava (4), cotton (4)
Moved from 2018 - quota full	Isoprothiolane (999) Costa Rica and Guatemala (registration expected in 4Q2017), Colombia and Ecuador (registration expected in 2018) fungicide Nihon Nohyaku	Isoprothiolane (999) Costa Rica and Guatemala (registration expected in 4Q2017), Colombia and Ecuador (registration expected in 2018)	banana	Banana (16)
1 July 2016		Clofentezine (156) [ADAMA]	Hops (IR4)	Hops (5)
22 Nov 2016		Cyclaniliprole [Ishihara Sangyo Kaisha] USA (Cpd no. not assigned yet)	Berries and other small fruits, Citrus Fruits, Root and tuber vegetables	Blueberry (10), Raspberry (5), Strawberry (9), Kiwi (3), Orange (12), Grapefruit (6), Lemon (5), Potato (25)
		Cypermethrins (118) [BASF], [FMC]	Public health concerns - acute dietary risk– Netherlands – check uses for peach based on existing residue data and labels; Republic of Korea (ginseng)	Ginseng (4)
23 Nov 2016		Fenpyroximate (193) (acaricide) [Nihon Nohyaku Co., Ltd.] USA	Citrus; Banana; Čelery; Caneberry; Summer squash; Watermelon	Citrus (24 US) [Orange (13 US), Grapefruit (6 US), Lemon (5 US)]; (Banana (5 US); Caneberry (7 US) [Blackberry (3 US) Raspberry (4 US)]; Celery (8 US); Summer Squash (5 US); Watermelon (4 US)

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
28 Nov 2016		Fluazifop-p-butyl (999) (herbicide) [Syngenta] USA	Blueberry; Caneberry; Lettuce; Strawberry; Onion; Mustard Greens; papaya	Blueberry (9); Caneberry (6); Lettuce (26); Strawberry (6); Onion, green (4); Mustard Greens (12); papaya (8)
20 Apr 2016		Fluensulfone (265) [ADAMA]	Grapes, peanuts	Grapes (12), peanuts (12)
30/09/2016 Syngenta requested move from 2018		Lambda-cyhalothrin (146) [Syngenta]	pineapple	Pineapple 8
22 Nov 2016		Pyriofenone [Ishihara Sangyo Kaisha] USA (Cpd no. not assigned yet)	Fruiting vegetables, other than Cucurbits	Tomato (23), Bell pepper (9), Non-bell pepper (3)
23 Nov 2016 Request by US to reschedule the residue evaluation currently schedule for the 2018 new compound evaluation to 2019		Pyrifluquinazon (999) (insecticide) [Nihon Nohyaku Co., Ltd.] USA, Japan	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 (US); Tea (Japan)	Almonds (5); pecans (5); grape (table) (12); raisin, juice (if MRL not included under table grape); plum (6); peach (9); cherry (6); apple (12); pear (6); lemon (5); grapefruits (6); oranges (12); cantaloupe (6); cucumbers (6); summer squash (5); peppers (12); tomatoes (8); leaf lettuce (7); head lettuce (7); celery (8); spinach (7); cauliflower (6); cabbage (8); mustard greens (5); potatoes (16); cotton seed (12); tea (6) and corresponding animal commodity MRLs
1 July 2016		Spirotetramat (234) [Bayer]	Strawberry; carrot; sugarbeet	Strawberry (10); carrot (24); sugarbeet (19)
1 July 2016		Thiamethoxam(245) [Syngenta]	Persimmon (Korea); Rice [Syngenta] Strawberry; Cherry tomato	Persimmon (6); Rice (8) Strawberry(6); Cherry tomato(6);
23 Nov 2016		Tolfenpyrad (269) (insecticide) [Nihon Nohyaku Co., Ltd.] USA	Pome fruit; Cucurbits; Fruiting veg.; Brassica; Citrus; Avocado; Onion; Blueberry; Strawberry; Caneberry; Greenhouse Tomato; Greenhouse Cucumber	Apples (16); Cucumbers (6); Cantaloupe (6); Summer Squash (5); Tomatoes (12); Peppers (9); Cauliflower (6); Cabbage (6); Mustard Greens (5); Orange (12); Lemon (5); Grapefruit (6); Avocado (5); Onion (10); Blueberry (11); Strawberry (8); Caneberry (6); Greenhouse tomato (4); Greenhouse cucumber (4)
27 Nov 2014	XDE-777 (999) Dow AgroSciences United Kingdom fungicide	XDE-777 (999) Dow AgroSciences; France	Wheat, triticale, rye and durum	Cereals (Wheat 8 trials)
		Picoxystrobin– [Dupont] – USA (258)	TBA	TBA
		Buprofezin (173) [Nihon Nohyaku] Japan	Grape, apple, olive, tomato, citrus, otton, pistachio, walnut, rice, tea, coffee (including processed commodities)	
		Acephate (95) India	Rice, grapes, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum)	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
			Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger	Monitoring data

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
•		Acetamiprid (246) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, grean pea, bitter gourd, cucumber, brinjal and capsicum), grapes,	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
			Cumin	Monitoring data
		Bifenthrin (178)	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, grean	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION
		India	pea, bitter gourd, cucumber, brinjal and capsicum), grapes, tea,	PROVIDED – DEFERRED TO 2019
			Curry leaves	
				Monitoring data
		Carbendazim (72) India	Dried ginger, dried chilli, cumin	Monitoring data
		Chlorpyrifos (017) India	fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), rice, grapes	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
			Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger	Monitoring data
		Clofenapyr (254) India	Dried chilli	Monitoring data
		Clothianidin (238) India	Cumin	Monitoring data
		Cypermethrin (118) India	Curry leaves, Dry chilli,	Monitoring data
		Deltamethrin (35) India	Dried chilli	Monitoring data
	Moved on request	Diazinon (22) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, grean pea, bitter gourd, cucumber, brinjal and capsicum), grapes	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
		Dicofol (26) India	Black pepper, fennel, fenugreek	Monitoring data
		Dimethoate (27) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, Tea	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
		Fenpropathrin (185)	Dried chilli, cumin	Monitoring data
		Imidacloprid (206) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes,	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
		Metalaxyl (138) India	Dried ginger	Monitoring data
		Methomyl (94) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
		Parathion (59) India	Curry leaves	Monitoring data
		Phosalone (60) India	Cardamom, dried chilli	Monitoring data
		Phorate (112) India	Dried ginger, cumin	Monitoring data
		Profenofos (171) India	fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), Tea,	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
			curry leaves, dried chilli, cumin, cardamom, fennel, fenugreek, black pepper, ginger powder	
			Popper, ginger powder	Monitoring data
		Propiconazole (160) India	Fennel, fenugreek	Monitoring data
		Thiamethoxam (245) India	Cumin	Monitoring data

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
		Triazophos (143) India	Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes	NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2019
			Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger	Monitoring data

2020 NEW COMPOUND EVALUATIONS

Date Stamp	TOXICOLOGY	RESIDUE	Prioritisation criteria	Commodities	Residue trials provided
6 Dec 2016	Ethalfluralin [Gowan] - Canada	Ethalfluralin	Registered MRLs = LOQ	Pulses	
8 Sept 2016 Not confirmed	SYN407 (999) (insecticide) [Syngenta]	SYN407 (999) (insecticide) [Syngenta]	Registered – No (status 2016) MRLs > LOQ	Rice, Soybean, Citrus, Cotton, Fruiting vegetables (Tomato, Pepper), Cucurbits (Cucumber/squash, Melon)	Rice (8), Soybean (20), Citrus (16), Cotton (4), Fruiting vegetables (Tomato (13), Pepper (13)), Cucurbits (Cucumber/squash (8), Melon (8))
8 Nov 2016	Fluazaindolizine (XXX) (nematicide) [DuPont] – USA	Fluazaindolizine (XXX)	Registered n MRLs > LOQ y	Treated crops: Eg. Fruiting vegetables, cucurbit vegetables, carrots, potatoes; Rotational crops: Eg., tomatoes, strawberries, carrots, radish, turnip, sugarbeet, celery, broccoli, leaf lettuce, Swiss chard, peas (dry), soybeans, oilseed rape; field corn (maize), wheat	Treated crops: tomatoes (27), peppers (26), cucumbers (18), melons (18), squash (17), carrots (11), potatoes (22), Rotational crops: tomatoes (10), Strawberries (10), Carrots (3), Radish (2); Turnip/Sugarbeet (5), Celery (5), Broccoli (10), Leaf Lettuce (10), Swiss chard (5), Peas (dry) (10), soybeans (5), oilseed rape (5), field corn (maize) (10), wheat (10)
21 March 2017	BCS-CN88460 [Bayer CropScience] fungicide Germany	BCS-CN88460	Not registered MRLs > LOQ	wheat grain, triticale grain, barley grain, rye grain, oats grain, corn/maize grain, sweet corn, cereals straw, by-products of cereals and corn/maize, as well as products of animal origin	
4 Dec 2015 Not confirmed Moved from 2019 on request	Broflanilide(999) (insecticide) [Landis International on behalf of Mitsui Chemicals] [USA]	Broflanilide (999)	Registered? No (first registration expected in 2019) MRLs > LOQ? Yes, for majority of crops and food of animal origin	USA- Brassica vegetables; Fruiting vegetables; Leafy vegetables; Legume vegetables; Pulses; Root vegetables	Brassica vegetables (35 + 16 trials), Fruiting vegetables (35 trials), Leafy vegetables (35 + 10 trials), Soybean with pod (3 trials), Pulses: Soybeans (31trials), dry beans (7 trials), Root vegetables: Potatoes (25 trials), radishes (6 trials), sweet potato(6 trials), turnip(3 trials), Stalk / stem vegetables: Leek (3 trials), green onion (3 trials), Cereals: Grain/Hay/Straw/Fodder (50 trials); Sugarcane (6 trials); Coffee (9 trials), Tea (6 trials), Feeding studies in cow and hen
4 Dec 2015 Not confirmed Moved from 2019 on request	BAS 750 F (fungicide) (999) [USA] 4 Dec 2015	BAS 750 F [BASF] (999)	Registered? NO MRLs > LOQ? YES	USA- wheat, field corn, rice, sorghum, barley, sweet corn, dried beans, succulent beans, dried peas, succulent peas, lentils, soybean, sugar beet, peanut, canola, apple, pear, almond, pecan, pistachio, cherry, peach, plum, grape	US- Wheat, 25 (US/CA), 16 (EU); Field corn, 16; Rice, 12; Sorghum, 9; Barley, 16 (US/CA), 16 (EU); Sweet corn, 12; dried bean, 10; dry pea, 9; succulent pea, 9; lentil, 8; soybean, 20; sugar beet, 15; peanut, 12; canola, 13; apple, 15; pear, 10; almond, 5; pecan, 5; pistachio, 3; cherry, 8; peach, 12; plum, 8; grape, 13

2020 NEW USES AND OTHER EVALUATIONS

Date Stamp	TOXICOLOGY	RESIDUE	Commodities	Residue trials provided
5 April 2017		Pyraclostrobin (210) BASF	Ginseng (Rep of Korea)	
16 March 2017		Thiamethoxam(245) [Syngenta]	Ginseng (Rep of Korea)	Ginseng(6)

TABLE 2A: PRIORITY LISTS OF PERIODIC REVIEWS - 2019-2021

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"

2019 PERIODIC REVIEW

Chemical LLC] Tox conducted in 1997 Amitraz (122) [Arysta Lifesciences] Falls under the 15-year rule (listed in Table 2B), last evaluation in 1998 Falls under the 15-year rule (listed in Table 2B), last evaluation in 1998 1998 1998 1998 1998 1998 0.01 0.01 0.01 MRLs are set at LOQ.No EU evaluation of residue trials is available. Therefore the acute risk assessment was performed with	TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Amitraz (122) [Arysta Lifesciences] Falls under the 15-year rule (listed in Table 2B), last evaluation in 1998 1998 1998. The EU proposes to submit a concern form on the basis of public health concerns. The EU and JMPR ARfD and ADI for amitraz are equal. All EU MRLs are set at LOQ.No EU evaluation of residue trials is available. Therefore the acute risk assessment was performed with	Chemical LLC]	aldicarb		Yes	1995		0.003 - 1995
the existing CXLs.However, when applied in the EFSA PRIMO model exceedances are observed for oranges (663%), apples (490%), pear (450%), pearles (297%), cucumber (292%), tomatose (291%) for children. Refinement (ESTI 2) of the variability factors would still lead to exceedances of the ARID for the same cycle (211-480%). In addition, even without including the LOQs for the crops without MRLs, the highest calculated TMDI values in 80 Alar ez 54 and 146 in DE and NL child, with pome fruit attributing the most (>100 % of the ADI). It is acknowledged that the time of the STMRs would lower the long-term dietary exposure by approximately a factor of 4-5, whereby exceedance of the ADI is exceeded in longer envisaged. Using the FAO IESTI spreadsheets and JMPR ARID, the ARID is exceeded in case of oranges (150-290%), apple (280-360%), pear (280-290%), peaches (150-250%), cucumber (130-200%), tomator (100-200%), tomator (100-200%), to the dietary exposure by approximately a factor of 2, but this would lower the dietary exposure by approximately a factor of 2, but this would still result in exceedances of the ARID.	Amitraz (122)	Amitraz (122)		1998. The EU proposes to submit a concern form on the basis of public health concerns. The EU and JMPR ARfD and ADI for amitraz are equal. All EU MRLs are set at LOQ.No EU evaluation of residue trials is available. Therefore the acute risk assessment was performed with the existing CXLs.However, when applied in the EFSA PRIMo model exceedances are observed for oranges (663%), apples (490%), pear (455%), peaches (297%), cucumber (292%), tomatoes (291%) for children. Refinement (IESTI 2) of the variability factors would still lead to exceedances of the ARfD for the same crops (211-480%). In addition, even without including the LOQs for the crops without MRLs, the highest calculated TMDI values in % ADI are 254 and 146 in DE and NL child, with pome fruit attributing the most (>100 % of the ADI). It is acknowledged that the use of the STMRs would lower the long-term dietary exposure by approximately a factor of 4-5, whereby exceedance of the ADI is no longer envisaged. Using the FAO IESTI spreadsheets and JMPR ARfD, the ARfD is exceeded in case of oranges (150-290%), apple (280-360%), pear (280-290%), peaches (150-260%), cucumber (130-200%), tomatoes (110-320%). It is acknowledged that the use of HRs would lower the dietary exposure by approximately a factor of 2,	1998		

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Azinphos-methyl (2) Not supported JMPR JMPR 2007 ARfD0.1	Azinphos-methyl (2)		The EU submitted a concern form in October 2015. Azinphos-methyl was re-evaluated concerning toxicology in 2007 with concerns mentioned by EU in CCPR 2008 due to the use of human data. The re-evaluation for residue behaviour was announced for 2010 but then did not take place as the substance was no longer supported. The substance is not authorised in the EU. It is of public health concern as the ARfD established by JMPR is exceeded for several commodities when using EU consumption data: 185% of ARfD for pears; 135% oranges which might be of no concern taking into account distribution between peel and pulp; Peaches (120%); Pine apples (105%). As the substance is falling under the 15 year rule and it has been confirmed at several meetings of the CCPR that it is no longer supported worldwide, the existing CXLs should urgently been withdrawn (2010 CCPR, para 178; 2011 CCPR, Appendix X; 2012 CCPR, para 166; 2014 CCPR, Appendix XV; 2015 CCPR, Appendix XV).		2007 0.03	2007 0.1
Carbosulfan (145) Carbofuran (96) [FMC Corporation]	Carbosulfan Carbofuran	Awaiting advice on supported commodities ASPARAGUS; EGG PLANT, MANGO (Thailand)	Netherlands – public health concerns Carbosulfan: Not approved (September 2007, RMS BE) - Information insufficient with regard to consumer exposure. Concerns identified with regard to toxicity of the substance and presence of unknown levels of caricnogenic imuprities which may increase during storage, Consumers exposure inconclusive due to uncertainties regarding the effects of certain metabolites, some of which could be genotoxic Carbofuran: Not approved (September 2007, RMS BE) - Information insufficient with regard to consumer exposure. Concerns identified - High toxicity of the substance and some of its metabolites, Consumer exposure inconclusive	1997	0.01 (1986) 0.001 (1996)	0.02 (2003) 0.001 (2009)
Dicloran (83)	Dicloran (83)		Not approved (April 2008 and May 2011, RMS ES) - Concerns identified with regard to the the toxicological relevance of several impurities in the technical material (relevent for residues in food?) and with regard to consumer risk assessment in following crops.	1998	0.01 (1998)	NR (2003)
Dimethoate [Cheminova] [FMC] (027)	Dimethoate	Pulses (Canada) - Dry beans (3 trials), succulent beans (3 trials), dry peas (5 US trials and 10 EU trials), succulent peas (3 US trials and 2 EU trials), edible-podded peas (6 US trials) Thailand – yard-long beans	EU concerns ARfD JMPR 2003 Acute risk for citrus and cherries Sum of dimethoate and omethoate expressed as dimethoateIn the 2003 evaluation by JMPR an ARfD was established. However, in the exposure assessment for the acute risk the highest residue was not used in the case of citrus. Using the HR would lead to an exceedance of the ARfD of 230%. Furthermore, the CXL of 2 mg/kg for cherries leads to an unacceptable acute risk for children and should be revised. Await advice from JMPR on public health concerns		0.002, 1996	0.02, 2003

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Fenarimol (192) [Gowan] Not supported by the manufacturer Concern form lodged	Fenarimol	Fenarimol was first included as active substance in 1995. The ADI was set at 0.01 mg/kg bw/d. The COM set an ADI of 0.01 mg/kg bw/d in 2007 as well as an ARfD of 0.02 mg/kg bw/d. Since the JMPR hasn't evaluated the active substance in 19 years whereas now an ARfD-value is available it is proposed to reevaluate all MRLs.	An ADI- and ARfD-value were derived in a peer-review under 91/414/EEC. EFSA identified in the acute risk assessment for children a possible risk for peppers (157.4%), peaches (148.3%), apples (146.9%), tomatoes (145.4%), pears (136.6%) and bananas (125.4%). A refined calculation was carried out using the HR. For further details see EFSA evaluation on the internet at http://www.efsa.europa.eu/en/efsajournal/doc/161r.pdf .	1995	0.01 - 1995	N/A
Phosalon (60) [Cheminova]	Phosalon (60)		Falls under the 15-year rule (listed in Table 2B), last evaluation in 1997. The EU proposes submit a concern form on the basis of public health concerns. The substance is not authorised in the EU. EU has established a lower ADI and ARfD than JMPR. Using the EU ARfD and ADI of 0.01 mg/kg, the EU MRLs and the Codex MRL for apple and pome fruit for phosalone leads to exceedance of ADI, with apple contributing most (114-639 %) in various populations. In the short-term dietary risk assessment these MRLs lead to exceedances of the EU ARfD not only in apples (490%), but also in pears (180%) and peaches (120%). The impact of the metabolite oxaphosalone has not been taken into account, but will only add to the dietary exposure. With the ARfD of the JMPR at 0.3 mg/kg bw and the ADI at 0.02 mg/kg bw/day, there are no exposure concerns. Awaiting advice on supported commodities Durian (Thailand)	1997	1997 0.02	2001 0.3
Tolclofos-methyl (191) [Sumitomo Chemical] – derferred to 2019 on request	Tolclofos-methyl (191)	Lettuce head; lettuce leaf; potato; radish	Await advice – moved from 2017 on request	1994	0.07 1994	N/A

2020 PERIODIC REVIEW

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Diazinon (22) [Makhteshim— Agan]	Diazinon	Note: Diazinon is already scheduled for toxicological and residue assessment by an interim JMPR to be held in Spring 2016, based on concerns raised by IARC on the possible carcinogenic properties of the substance (see Summary Report JMPR2015).	Falls under the 15-year rule (listed in Table 2B), last evaluation in 1996. EU Concerns are as follows: The substance is not authorised in the EU. The EU-ADI of 0.0002 mg/kg bw/day) is much lower than the JMPR ADI (0.005 mg/kg bw/day). Using the existing CXLs and the EU ARfD/ADI in the EFSA PRIMo model, serious public health concerns are identified after long-term dietary exposure of diazinon. An acute dietary risk assessment was performed using CXLs. When using the JMPR IESTI model, the JMPR-ARfD is not exceeded. By using the EFSA PRIMo model and the CXLs, the EU-ARfD is exceeded (IESTI 1) in case of scarole (175%), plums (132%), carrots (127%), melons (121%), apples (118%), broccoli (1177%), tomatoes (116%), pears (105%), head cabbage (105%), bovine meat (102%). Refinement (IESTI 2) of the variability factors would still lead to exceedances of the ARfD for scarole, melons, plums and bovine meat (102-175%). Use of the HR would lower the short term exposure by a factor of 2 which would not result in an exceedance of ARfD. Even without including the LOQs for the crops without MRLs, the highest calculated TMDI values in % (EU) ADI are 376-4990% in various populations (child, toddlers, general public) and countries, with meats, pome fruit, carrots and sugar beets contributing the most (all >>100 % of the ADI). It is acknowledged that the use of the STMRs would lower the long-term dietary exposure by approximately a factor of 4-5, but this would still lead to an exceedance of the ADI.	1996	2006 0.005	2006 0.03
Ethoxyquin (35) One CXL - pear	Ethoxyquin (35)		The substance is not authorised in the EU and no import tolerances exist. EFSA concluded that the metabolism data used by JMPR for establishing the residue definition for enforcement and risk assessment could not be confirmed as the metabolism data showed deficiencies using the JMPR residue definition. EFSA concluded that the CXL for pears exceeded the ARfD (109%) and proposed to lower the EU MRL to the LOD. The last periodic review of residues was performed by JMPR in 1999 and of toxicology in 1998. This is approximately 15 years ago. It seems that Japan has recently performed a toxicological evaluation of the substance. COMMENT: a toxicological review occurred in 2005 – reviewed ADI and set ARfD		0.005, 2005	0.5, 2005
202 – Fipronil [BASF]	202 - Fipronil		006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 015 Pulses; 016 Root and tuber vegetables; 020 Cereal grains; 021 Grasses for sugar or syrup production; 04 Nuts and seeds; 023 Oilseeds	2000/01	2000 0.0002	2000 0.003
Iprodione (111) (FMC) Moved at the request of manufacturer – await completion of EU, Canada and US reviews	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 (All CXLs appear to be supported)	FMC Trials: Almonds (4); barley (13); blackberries (8); broccoli (4); carrot (12); cherry (5); lettuce, leaf (12); peach (9); raspberries, red/black (8); rice, husked (18); Spices, seeds (4); spices, roots & rhizomes (4); apricots (8); artichoke (4); banana (8); bean, succulent - lima and snap (12); Brassica, head and stem vegetables (12); coffee (6); eggplant (8); mandarins (8); mango (4); melon (12); pea (12); peanut (12); plum (12); potato (16); soybean (12); wheat (16)	1994	0.06 1995	N/A

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Methidathion (51) Manufacturer support from Zenno Chem for mango and peach scheduled for 2020 If no support for existing CXLs, then revocation of CXLs at CCPR49.	Methidathi on (51) insecticide	Peach, mango, apple, pear, cherry, mandarin, tea	The active substance has been re-evaluated for residues (after its first inclusion in 1972) in 1992. An ARfD was derived in the toxicological re-evaluation in 1997. As a consequence of this ARfD a couple of MRLs are not safe for consumers. Due to the fact that no periodic re-evaluation of residues took place in 42 years it is proposed to carry out a new evaluation. The JMPR has established an ADI of 0.001 mg/kg bw/d and an ARfD of 0.01 mg/kg bw/d in 1997. A risk assessment was performed using the EFSA PRIMo including all MRLs that were considered relevant for international trade. The ADI was exceeded for 25 European diets with the highest exposure representing 2392% of the ADI. Citrus fruits, olives for oil production and milk were shown to be the main contributors. Citrus fruits also exceeded the ARfD (up to 6631%). A second exposure calculation delete the existing MRLs for citrus fruits, pome fruits and sunflower seeds still showed an that the ADI for 5 European diets was exceeded (up to 301%). For further details see EFSA evaluation on the internet at http://www.efsa.europa.eu/en/efsajournal/doc/1639.pdf .	1992	0.001 - 1997	0.01 - 1997
Pirimicarb (101) Syngenta	Pirimicarb (101)	Supported by the manufacturer	Public health concerns - acute dietary risk—Netherlands – check uses for peach and lettuce based on existing residue data and labels Moved from 2017 New use and other evaluations	2004		
Prochloraz (142) [Bayer CropScience]			Last reviewed by JMPR in 2001. In 2011, Prochloraz was re-evaluated in the EU and a lower acute toxicological endpoint of 0.025 mg/kg/bw/d was established compared to a value of 0.1 set by JMPR in 2001. From the JMPR report (2004) the IESTI was calculated to be greater than 25% of the ARfD at 0.1 for several commodities. With a lowering of the ARfD by a factor of 4, the CXLs for banana, edible offal (mammalian), grapefruit, mandarin, orange, papaya, pineapple, shaddocks/pomelos are expected to be of concern. The EU values were derived from 2 studies that do not appear to have featured in the JMPR evaluation. The multi-generation rat study "Reader 1993" submitted as part of a dossier by a notifier and a 90 day dog study "Lancaster 1979" submitted by another notifier. In addition a change in the interpretation the significance of extended gestation in both the "Cozen 1980 study" and the "Reader 1993" study also impacted. It should also be noted the many papers reviewed as part of the literature search around prochloraz were also considered when the list of endpoints and critical values were set.		0.01, 1983 confir med 2001	0.1, 2009
Quintozene (64) [Crompton— AMVAC]	quintozene		Falls under the 15-year rule (listed in Table 2B), last evaluation in 1995. The EU proposes submit a concern form on the basis of public health concerns. Quintozene containing more than 0.1% hexachlorobenzene is banned in the EU. For quintozene (containing less than 0.1% hexachlorobenzene), the necessity for deriving an ARfD has not been assessed (EU or JMPR). Using the CXLs, the JMPR IESTI model and the ADI as surrogate ARfD, an exceedance of the ARfD is found for ginger root (240%); no exceedance is found for the EFSA PRIMo model. Using the (temporary) ADI of 0.01 mg/kg bw/day, the TMDI in the long-term dietary risk assessment does not exceed the ADI using the Codex MRLs and the EFSA PRIMo model. However, there are many uncertainties regarding the metabolites that can be formed, depending on application of the active substance at growth stage and on type of plant. There is a lack of sufficient data to exclude consumer risks.	1995	1995 0.01	1995 n/a

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Dithiocarbamates (105) [Taminco] (ferbam, maneb/mancozeb, propineb, thiram, ziram) MOVE to 2020 22 2016 Additional advice; US Supports Mancozeb, Metiram, Propineb, Thiram, Ziram	Dithiocarba mates (105)	Longan (Thailand – mancozeb) Mancozeb: Oranges (24), Mandarins (16), Nuts (10), Apples (48), Pears (4), Peaches (8), Apricot (8), Plums (28), Cherries (16), Grapes (2*), small fruits and berries (25), Potato (16), Carrot (24), Onions (24), Tomatoes (31), Pepper (18), Courgette (14), Cucumber (36), Melon (20), Broccoli (24), Cauliflower (20), Head cabbage (32), Lettuce (22), Witloof (4), Beans/Peas, fresh without pods (8), Peas, fresh without pods (8), Peas, fresh without pods (16), Asparagus (10), Leeks (19), Pulses, dry (24), Olives (15), Wheat (26), Barley (16), Sugar beet (16) *Additional trials in progress Metiram: Grape (23); Potato (23); Apple (15); Tomato (15); Onions (8); Lettuce (20); Cucurbits edible peel (8); Passion Fruit (4); Banana (12); Pineapple (4) Propineb: apples (50); grape (54); mango (5); citrus (31); tomato (36); potato (31); chili pepper (11); cucumber (27); rice (8); shallot (8) Thiram (foliar): Apple (25); Pear (10); Apricot (7); Peach (12); Cherry (28); Strawberry (40); Plum (12); Olive (8); Grape (13); Eggplant (2); Lettuce (9); Sunflower (4); Avocado (6); Mango (1); Banana (17) Thiram (seed): Sugar beet (4); Maize (8); Oilseed rape (8) Ziram (foliar): Peach (6); Apricot (4); Plum (11); Pear (21); Cherry (11); Grape (5); Tomato (7); Blueberries (4)	Residue definition applies to all DTC – propineb; mancozeb; ferbam; ziram; thiram; maneb; metiram; zineb Netherlands - public health concerns Several (serious) public health risks have been identified for several dithiocarbamates (Maneb/mancozeb, propineb, thiram, ziram) using EU data (ARfD and MRLs with conversion factor corrections). JMPR has not derived ARfDs for these substances (except an interim ARfD of 0.1 mg/kg bw for propineb) nor performed acute dietary risk assessment as it was not yet done at that time (before 2000). Various group ADI's for several dithiocarbamates (e.g. 0.03 mg/kg for maneb, mancozeb, metiram and zineb, 0.007 mg/kg for propineb, 0.003 mg/kg for ziram and ferbam, and 0.01 mg/kg for thiram). We acknowledge that a periodic review of propineb has been performed in 2004. Still a risk has been identified for peppers and (dried) tomatoes using the HR for peppers of 13 mg/kg and the HR for tomatoes of 2.9 mg/kg for propineb and the interim ARfD of 0.1 mg/kg bw. Processing data have not been included in this calculation. For thiram risks have been identified for e.g. use on apples and pears (recommended MRL of 5 mg/kg listed under ziram, no STMR or HR listed, Annex I, JMPR report 2004 from http://www.faco.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMPR/Report s_1991-2006/report2004/mpr.pdf) falling back on the use of the ADI of 0.01 mg/kg bw/day (no ARfD exists). Using the EU ARfD of 0.6 mg/kg bw or risks are identified any more. For ziram risk are identified e.g. use pome fruit, even if making use of the EU ARfD (0.08 mg/kg bw/) instead of falling back on the ADI of 0.003 mg/kg bw/d in the absence of an JMPR ARfD. Due to time constraints, we have not yet further explored the risks identified for maneb / mancozeb. The majority of the dithiocarbamates have been evaluations. We propose therefore to update the evaluations with regard to the acute dietary risk assessment of all the dithiocarbamates in one overall assessment. This would enable identification of all the pos	1996T, 1993R, (2004 propineb)	Range of group ADIs	Interi m ARfD propi neb 0.1 m g/kg 1995

2021 PERIODIC REVIEW

TOXICOLOGY	RESIDUE	Commodities	Comments	Previous evaluation	ADI	ARfD
Bromide ion (47)	Bromide ion (47)		No Croplife manufacturer responsible Last reviewed over 25 years ago - Not cleared toxicologically by JMPR Bromide ion from all sources but not including covalently bound bromine, Methyl bromide (52) – guideline CXLs	1988	1.0 - 1988	N/A
Fenbutatin oxide (109)	Fenbutatin oxide		National registrations - Y No supporting member country No longer supported by manufacturer	1992	0.03 - 1992	N/A
Guazatine (114)	Guazatine (114)		Guazatine was first discarded as not having an ADI/ARfD at all. However, this appears to be a special case. In 1978 an ADI was derived, which was withdrawn in 1997 since "The Meeting concluded that it could not establish an ADI for guazatine owing to the inadequate information on its composition and concerns about the production of rare malignant tumours in mice". "The Meeting estimated the maximum residue level shown in Annex I.As the Meeting withdrew the ADI for guazatine this is recorded only as a Guideline Level". As such no CXLs are supposed to be available. However, a CXL for cereal grains (0.05* mg/kg G = guideline value) and citrus fruit (5 mg/kg Po = post harvest use) can still be found in the Codex Alimentarius. Annex 1 and Annex 2 of the JMPR 1997 evaluation, show that the CXL for Citrus fruits of 5 mg/kg Po is withdrawn, but that for cereals a maximum residue level of0.05* mg/kg is proposed. The CXL of 5 mg/kg has been adopted by the CCPR in 1999. It is unclear which discussion is behind this. The problem is that this specific MRL-crop combination gives rise to a human health risk. Only "guideline levels" (5 mg/kg) for citrus exist since the ADI was withdrawn in 1997. It was recommended that these guideline levels would remain until a new ADI is recommended. It is proposed either to delete the guideline level or request sponsors to support a re-evaluation of guazatine. There are no CXLs in place in CX/PR 14/46/5 – instead guideline levels are set – clarification from Codex Secretariat is sought.		Withdrawn 1997	N/A
Hydrogen phosphide, (zinc and aluminium salts) (46)	Hydrogen phosphide (46)	Cereal grains, citrus, almonds	No Croplife manufacturer responsible – request for additional preparation time	1971	NR	N/A
Permethrin (120)	Permethrin (120)	Not supported	Not supported by manufacturer Last reviewed over 25 years ago	1987	0.05 - 1999	NR - 1999

TABLE 2B: PERIODIC REVIEW LIST (COMPOUNDS LISTED UNDER 15 YEAR RULE BUT NOT YET SCHEDULED OR LISTED)

Compounds listed in this table have not been evaluated for at least 15 years. Decisions on the prioritization of these compounds should be based on the relevant criteria specified in pp159-161 of the *Codex Procedural Manual*. Compounds are listed in Table 2b awaiting advice on supporting data packages and/or an indication of manufacturer/member country support.

TOXICOLOGY	RESIDUE	Issue – Commodities supported	Current national registrations	Previous evaluation	ADI	ARfD
Fenthion (39)	fenthion	No longer supported by the manufacturer	yes	1995	0.007 - 1995	0.01 - 1997
Disulfoton (74)	disulfoton	No longer supported by the manufacturer	yes	1996	0.0003 - 2006	0.003 - 2006
Fenbuconazole (197) [Dow AgroSciences]	fenbuconazole	Awaiting advice on supported commodities	yes	1997	0.03 (1997)	0.2 (2012)
Dinocap (87)	dinocap	No longer supported by the manufacturer	yes	1998	0.008 - 1998	0.008 WCBA 0.03 general
Maleic hydrazide (102) [Chemtura]	maleic hydrazide	Awaiting advice on supported commodities	yes	1998	0.3 (1996)	N/A
Amitrole (79) [Nufarm]	amitrole	Awaiting advice on supported commodities	yes	1998	0.002 (1997)	N/A
Pyriproxyfen [Sumitomo] (200)	pyriproxyfen	Awaiting advice on supported commodities	yes	1999	0.1 (1999)	NR (1999)
Malathion [Cheminova] (049)	malathion	Awaiting advice on supported commodities	yes	1999	0.3 (1997	2.0 (2003)
2-phenylphenol (056) [???]	2-phenylphenol	manufacturer unkown	yes	1999	0.4, 1999	NR 1999
Parathion-methyl (059) [Cheminova]	Parathion-methyl	Awaiting advice on supported commodities	yes	1994R, 1995T	0.003, 1995	0.03, 1995
Bitertanol (144) [Bayer CropScience]	Bitertanol	Awaiting advice on supported commodities	Yes	1998T, 1999R	0.01, 1998	NR 1998
2,4-D [Dow AgroSciences] (020)	2,4-D	Awaiting advice on supported commodities	yes	1996T, 1998R, 2001T(ARfD),	0.01, 1996	NR
Diphenylamine [Cerex Agri] (030)	Diphenylamine	Awaiting advice on supported commodities	yes	1998T, 2001R	0.08, 1998	NR
Piperonyl butoxide [Endura] (062)	Piperonyl butoxide	Awaiting advice on supported commodities	yes	1995T, 2001T(ARfD), 2001R	0.2, 1995	NR
Methomyl [DuPont] (094)	Methomy	Awaiting advice on supported commodities	yes	2001	0.02, 2001	0.02, 2001
Spinosad [Dow AgroSciences] (203)	Spinosad	Awaiting advice on supported commodities	yes	2001	0.02, 2011	NR
Imidacloprid [Bayer CropScience] (206)	Imidacloprid	Awaiting advice on supported commodities	yes	2001	0.06, 2002	0.4, 2002
Esfenvalerate [Sumitomo] (204)	Esfenvalerate	Awaiting advice on supported commodities	yes	2002	0.02, 2002	0.02, 2002
Flutolanil [Nihon Nohyaku] (206)	Flutolanil	Awaiting advice on supported commodities	yes	2002	0.09, 2002	NR, 2002

TABLE 3: RECORD OF PERIODIC REVIEWS

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
007	Captan	1963	1995T, 2004T(ARfD), 2000R			Arysta Life Science
008	Carbaryl	1965	2001T(ADI, ARfD), 2002R			Bayer CropScience
17	Chlorpyrifos	1972	1999T, 2000R, 2006 (ARfD)			Dow AgroSciences
)25	Dichlorvos	1965	2011T, 2012R			AMVAC
)26	Dicofol	1968	1992, 2011T			Not supported by manufacturer
)31	Diquat	1970	1993T, 1994R, 2013			Syngenta
)32	Endosulfan	1965	1998T, 2006R			Makhteshim Agan
)37	Fenitrothion	1969	2007T(ADI, ARfD), 2003R			Sumitomo
)41	Folpet	1969	1995T, 2007T(ARfD), 1998R			Makhteshim Agan
)48	Lindane	1965	2002T, 2003R, 2015			EMRLs proposed
)57	Paraquat	1970	2003T, 2004R			Syngenta
63	Pyrethrins	1965	2003T, 2000R			No manufacturer
65	Thiabendazole	1970	1997T, 1997R, 2006T(ARfD)			Syngenta
67	Cyhexatin	1970	2005T, 2005R			Cerex Agri
81	Chlorothalonil	1974	2009T, 2010R			Syngenta
)84	Dodine	1974	2000T, 2003R			AgriPhar SA
)85	Fenamiphos	1974	1997T, 1999R, 2006T(ARfD)			Makhteshim Agan
086	Pirimiphos-methyl	1974	1992T, 2006T(<i>ARfD</i>), 2003R			Syngenta
90	Chlorpyrifos-methyl	1975	2009			Dow AgroSciences
95	Acephate	1976	2005T, 2003R			Arysta Life Science
00	Methamidophos	1976	2002T, 2003R			Bayer CropScience
03	Phosmet	1976	1994T, 2003T, 1997R 2002R			Gowan
06	Ethephon	1977	2002T(ARfD), 2015			Bayer CropScience
12	Phorate	1977	2004T, 2005R			BASF / AMVAC
13	Propargite	1977	1999T, 2002R			Chemtura
16	Triforine	1977	1997T, 2014			Support from Sumitomo Co.
18	Cypermethrin	1979	2006T, 2008R			FMC / AgriPhar
19	Fenvalerate	1979	2012			Sumitomo Chemical
29	Azocyclotin	1979	2005T, 2005R			Cerex Agri
32	Methiocarb	1981	1998T, 1999R, 2005R (ARfD)			Bayer CropScience
33	Triadimefon/triadimenol	1979	2004T, 2007R			133 /168 - Bayer CropScience
35	Deltamethrin	1980	2000T, 2002R			Bayer CropScience
43	Triazophos	1982	2002T, 2007R			Bayer CropScience
46	Lambda-cyhalothrin	1984	2007T, 2008R			Syngenta
47	Methoprene	1984	2001T, 2005R			Dow AgroSciences
48	Propamocarb	1984	2005T, 2006R			Bayer CropScience
149	Ethoprophos	1983	1999T, 2004R			Bayer CropScience
51	Dimethipin	1985	1999T, 2004T(<i>ARfD</i>), 2001R			Chemtura
55	Benalaxyl	1986	2005T, 2009R			FMC
56	Clofentezine	1986	2005T, 2009R			Makhteshim Agan
57	Cyfluthrin	1986	2006T, 2007R			Makhteshim Agan / Bayer
58	Glyphosate	1986	2004			Monsanto
60	Propiconazole	1987	2004 2004T, 2007R			Syngenta
65	Flusilazole	1989	20041, 2007R			DuPont
166	Oxydemeton-methyl	1989	2007 2002T, 1998R			United Phosphorous

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
167	Terbufos	1989	2003T			AMVAC
169	Cyromazine	1990	2006T, 2007R			Syngenta
171	Profenofos	1990	2007T, 2008R			Syngenta
172	Bentazone	1991	2012T, 2004T(ARfD), 2013			BASF
173	Buprofezin	1991	2008			Nihon Nohyaku
174	Cadusafos	1991	2009T, 2010R			FMC
175	Glufosinate-ammonium	1991	2012			Bayer CropScience
176	Hexythiazox	1991	2008T, 2009R			Nippon Soda
177	Abamectin	1992	1997T, 2015			Syngenta
178	Bifenthrin	1992	2009T, 2010R			FMC
179	Cycloxydim	1992	2009T, 2012R			BASF
180	Dithianon	1992	2010T, 2013R			BASF
181	Myclobutanil	1992	2014			Support from Dow AgroSciences
182	Penconazole	1992	2016			Syngenta
184	Etofenprox	1993	2011T,R			Mitsui Chemical Inc
185	Fenpropathrin	1993	2012T, 2014			Sumitomo Chemical
189	Tebuconazole	1994	2010T, 2011R			Bayer CropScience
190	Teflubenzuron	1994	2016			Support unknown
194	Haloxyfop	1995	2006T, 2009R			Dow AgroSciences
196	Tebufenozide	1996	2003T(ARfD)			Dow AgroSciences
201	Chlorpropham	2000	2005T(ADI, ARfD)			Cerex Agri
015	Chlormequat	1970	1997T, 1999T(ARfD) 1994	2017	2017	Support from BASF
051	Methidathion	1972	1997T, 1992	2017	2017	Not supported
072	Carbendazim	1973	1995T, 2005T(ARfD), 1998R	2017	2017	Nippon Soda
126	Oxamyl	1980	2002	2017	2017	Dupont
188	Fenpropimorph	1994	2004T(ARfD)	2017	2017	Support from BASF
193	Fenpyroximate	1995	2007T(ARfD)	2017	2017	Nihon Nohyaku
199	Kresoxim-methyl	1998	None	2017	2017	BASF
070	Bromopropylate	1973	1993	2018	2018	not supported
110	Imazalil	1977	1977, 2000T, 2005T(ARfD)	2018	2018	Janssen
138	Metalaxyl	1982	2002T	2018	2018	Quimicas del Vallés - SCC GmbH
187	Clethodim	1994	1999T(ARfD)	2018	2018	Support from USA
195	Flumethrin	1996	None	2018	2018	Bayer CropScience
002	Azinphos-methyl	1965	2007T	2019	2019	Makhteshim
027	Dimethoate	1965	1996T, 2003T(ARfD), 1998R	2019	2019	
060	Phosalone	1972	1997T, 2001T(ARfD), 1994R	2019	2019	Cheminova
083	Dicloran	1974	1998	2019	2019	Gowan
096	Carbofuran	1976	1996T, 2008T(ARfD), 1997R	2019	2019	FMC
117	Aldicarb	1979	1992T, 1995T(ARfD), 1994R	2019	2019	AgLogicChemcial LLC
122	Amitraz	1980	1998T	2019	2019	Arysta Lifesciences
145	Carbosulfan	1984	2003T, 1997R	2019	2019	
191	Tolclofos-methyl	1994	None	2019	2019	Sumitomo Chemical
192	Fenarimol	1995	None	2019	2019	
022	Diazinon	1965	2006T, 1993	2020	2020	Makhteshim-Agan
035	Ethoxyquin	1969	2005T, 1999R	2020	2020	No manufacturer
064	Quintozene	1969	1995	2020	2020	Chemtura
101	Pirimicarb	1976	2004	2020	2020	Syngenta

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
105	Dithiocarbamates - incl propineb, ferbam, ziram	1965	1993R/1996T ferbam/ziram, 2004 propineb	2020	2020	Individual DTCs are evaluated, propineb 2004, ferbam/ziram 1996
111	Iprodione	1977	1995T, 1994R	2020	2020	Support from BASF
142	Prochloraz	1983	2001T, 2004R	2020	2020	Bayer CropScience
202	Fipronil	2000/2001	None	2020	2020	BASF
046	Hydrogen phosphide	1965	1966T	2021	2021	Support unknown
047	Bromide ion	1968	1988T	2021	2021	Support unknown
109	Fenbutatin oxide	1977	1992T, 1993R	2021	2021	Not supported by BASF
114	Guazatine	1977	1997	2021	2021	Guideline limits – citrus, pome fruit
120	Permethrin	1979	1999T	2021	2021	Not supported by manufacturer
130	Diflubenzuron	1981	2001T, 2002R	JECFA comments		Chemtura
020	2,4-D	1970	1996T, 1998R, 2001T(ARfD),	Listed-not scheduled	Listed-not scheduled	Dow AgroSciences
030	Diphenylamine	1969	1998T, 2001R	Listed-not scheduled	Listed-not scheduled	Cerex Agri
039	Fenthion	1971	1995, 1997T(ARfD)	Listed-not scheduled	Listed-not scheduled	Not supported by manufacturer
049	Malathion	1965	1997T, 2003T(ARfD), 1999R	Listed-not scheduled	Listed-not scheduled	
056	2-phenylphenol	1969	1999	Listed-not scheduled	Listed-not scheduled	No manufacturer
059	Parathion-methyl	1965	1995T, 2000R	Listed-not scheduled	Listed-not scheduled	Cheminova
062	Piperonyl butoxide	1965	1995T, 2001T(ARfD), 2001R	Listed-not scheduled	Listed-not scheduled	Endura
074	Disulfoton	1973	1996T(ARfD)	Listed-not scheduled	Listed-not scheduled	Bayer CropScience
079	Amitrole	1974	1997T, 1998R	Listed-not scheduled	Listed-not scheduled	Nufarm
087	Dinocap	1969	1998T, 2000T(ARfD)	Listed-not scheduled	Listed-not scheduled	Not supported by manufacturer
094	Methomyl	1975	2001	Listed-not scheduled	Listed-not scheduled	DuPont
102	Maleic hydrazide	1976	1996T, 1998R	Listed-not scheduled	Listed-not scheduled	Chemtura
144	Bitertanol	1983	1998T, 1999R	Listed-not scheduled	Listed-not scheduled	Bayer CropScience
197	Fenbuconazole	1997	None	Listed-not scheduled	Listed-not scheduled	Dow AgroSciences
200	Pyriproxyfen	1999	None	Listed-not scheduled	Listed-not scheduled	Sumitomo Chemical / Valent Canada
203	Spinosad	2001	None	Listed-not scheduled	Listed-not scheduled	Dow AgroSciences
206	Imidacloprid	2001	None	Listed-not scheduled	Listed-not scheduled	Bayer CropScience
204	Esfenvalerate	2002	None	Listed-not scheduled	Listed-not scheduled	Sumitomo Chemical
205	Flutolanil	2002	None	Listed-not scheduled	Listed-not scheduled	NIhon Nohyaku
207	Cyprodinil	2003	None	Never scheduled	Never scheduled	Syngenta
208	Famoxadone	2003	None	Never scheduled	Never scheduled	DuPont
209	Methoxyfenozide	2003	None	Never scheduled	Never scheduled	Dow AgroSciences
210	Pyraclostrobin	2003	None	Never scheduled	Never scheduled	BASF
211	Fludioxonil	2004	None	Never scheduled	Never scheduled	Syngenta
212	Metalaxyl-M	2002	None	Never scheduled	Never scheduled	Syngenta
213	Trifloxystrobin	2004	None	Never scheduled	Never scheduled	Bayer CropScience
214	Dimethenamid-P	2005	None	Never scheduled	Never scheduled	BASF
215	Fenhexamid	2005	None	Never scheduled	Never scheduled	Bayer CropScience
216	Indoxacarb	2005	None	Never scheduled	Never scheduled	DuPont DuPont
217	Novaluron	2005	None	Never scheduled	Never scheduled	Makhteshim-Agan
218	Sulfuryl fluoride	2005	None	Never scheduled	Never scheduled	Dow AgroSciences
219	Bifenazate	2005	None	Never scheduled	Never scheduled	Chemtura
220	Aminopyralid	2006	None	Never scheduled	Never scheduled	Dow AgroSciences
221	Boscalid	2007	None	Never scheduled	Never scheduled	BASF
222	Quinoxyfen	2006	None	Never scheduled	Never scheduled	Dow AgroSciences
223		2006				
223	Thiacloprid	2006	None	Never scheduled	Never scheduled	Bayer CropScience

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
224	Difenoconazole	2007	None	Never scheduled	Never scheduled	Syngenta
225	Dimethomorph	2007	None	Never scheduled	Never scheduled	BASF
226	Pyrimethanil	2007	None	Never scheduled	Never scheduled	Bayer CropScience
227	Zoxamide	2007	None	Never scheduled	Never scheduled	Gowan
229	Azoxystrobin	2008	None	Never scheduled	Never scheduled	Syngenta
230	Chlorantraniliprole	2008	None	Never scheduled	Never scheduled	DuPont
231	Mandipropamid	2008	None	Never scheduled	Never scheduled	Syngenta
232	Prothioconazole	2008	None	Never scheduled	Never scheduled	Bayer CropScience
233	Spinetoram	2008	None	Never scheduled	Never scheduled	Dow AgroSciences
234	Spirotetramat	2008	None	Never scheduled	Never scheduled	Bayer CropScience
235	Fluopicolide	2009	None	Never scheduled	Never scheduled	Bayer CropScience
236	Metaflumizone	2009	None	Never scheduled	Never scheduled	BASF
237	Spirodiclofen	2009	None	Never scheduled	Never scheduled	Bayer CropScience
238	Clothianidin	2010	None	Never scheduled	Never scheduled	Sumitomo Chemical
239	Cyproconazole	2010	None	Never scheduled	Never scheduled	Syngenta
240	Dicamba	2010	None	Never scheduled	Never scheduled	BASF
241	Etoxazole	2010	None	Never scheduled	Never scheduled	Sumitomo Chemical
242	Flubendiamide	2010	None	Never scheduled	Never scheduled	Nihon Nohyaku
243	Fluopyram	2010	None	Never scheduled	Never scheduled	Bayer CropScience
244	Meptyldinocap	2010	None	Never scheduled	Never scheduled	Dow AgroSciences
245	Thiamethoxam	2010	None	Never scheduled	Never scheduled	Syngenta
246	Acetamiprid	2011	None	Never scheduled	Never scheduled	Nippon Soda
247	Emamectin-benzoate	2011	None	Never scheduled	Never scheduled	Syngenta
248	Flutriafol	2011	None	Never scheduled	Never scheduled	Cheminova
249	Isopyrazam	2011	None	Never scheduled	Never scheduled	Syngenta
250	Propylene oxide	2011	None	Never scheduled	Never scheduled	Aberco
251	Saflufenacil	2011	None	Never scheduled	Never scheduled	BASF
252	Sulfoxaflor	2011	None	Never scheduled	Never scheduled	Dow AgroSciences
253	Penthiopyrad	2011	None	Never scheduled	Never scheduled	DuPont
253	Ametoctradin	2012	None	Never scheduled	Never scheduled	[BASF] – USA
254	Chlorfenapyr	2018 R, 2012T	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
261	Benzovindiflupyr	2013	None	Never scheduled	Never scheduled	Syngenta
262	Bixafen	2013	None	Never scheduled	Never scheduled	Bayer CropScience
263	Cyantraniliprole	2013	None	Never scheduled	Never scheduled	DuPont
264	Fenamidone	2013/14	None	Never scheduled	Never scheduled	Bayer CropScience
265	Fluensulfone	2013/14	None	Never scheduled	Never scheduled	Makhteshim
266	Imazapic	2013	None	Never scheduled	Never scheduled	BASF
267	Imazapyr	2013	None	Never scheduled	Never scheduled	BASF
268	Isoxaflutole	2013	None	Never scheduled	Never scheduled	Bayer CropScience
269	Tolfenpyrad	2013	None	Never scheduled	Never scheduled	Nihon Nohyaku
270	Triflumizole	2013	None	Never scheduled	Never scheduled	Nippon Soda
271	Trinexapac	2013	None	Never scheduled	Never scheduled	Syngenta

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
272	Aminocyclopyrachlor	2014	None	Never scheduled	Never scheduled	DuPont
273	Cyflumetofen	2014	None	Never scheduled	Never scheduled	BASF
274	Dichlobenil	2014	None	Never scheduled	Never scheduled	Chemtura
275	Flufenoxuron	2014	None	Never scheduled	Never scheduled	BASF
276	Imazamox	2014	None	Never scheduled	Never scheduled	BASF
277	Mesotrione	2014	None	Never scheduled	Never scheduled	Syngenta
278	Metrafenone	2014	None	Never scheduled	Never scheduled	BASF
279	Pymetrozine	2014	None	Never scheduled	Never scheduled	Syngenta
280	Acetochlor	2015	None	Never scheduled	Never scheduled	Monsanto
281	Cyazofamid	2015	None	Never scheduled	Never scheduled	Ishihara Sangyo Kaisha
282	Flonicamid	2015	None	Never scheduled	Never scheduled	Ishihara Sangyo Kaisha
283	Fluazifop-p-butyl	2015	None	Never scheduled	Never scheduled	Syngenta
284	Flumioxazin	2015	None	Never scheduled	Never scheduled	Sumitomo
285	Flupyradifurone	2015	None	Never scheduled	Never scheduled	Bayer CropScience
286	Lufenuron	2015	None	Never scheduled	Never scheduled	Syngenta
287	Quinclorac	2015	None	Never scheduled	Never scheduled	BASF
288	Acibenzolar-S methyl	2016	None	Never scheduled	Never scheduled	Syngenta
289	Imazethapyr	2016	None	Never scheduled	Never scheduled	BASF
290	Isofetamid	2016	None	Never scheduled	Never scheduled	Ishihara Sangyo Kaisha
291	Oxathiapiprolin	2016	None	Never scheduled	Never scheduled	DuPont
292	Pendimethalin	2016	None	Never scheduled	Never scheduled	BASF
293	Pinoxaden	2016	None	Never scheduled	Never scheduled	Syngenta
294	Spiromesifen	2016	None	Never scheduled	Never scheduled	Bayer CropScience
999	Bicyclopyrone	2017	none	Never scheduled	Never scheduled	Syngenta
999	Cyclaniliprole	2017	None	Never scheduled	Never scheduled	Ishihara Sangyo Kaisha
999	Fenazaguin	2017	None	Never scheduled	Never scheduled	Gowan
999	Fenpyrazamine	2017	None	Never scheduled	Never scheduled	Sumitomo chemical
999	Isoprothiolane	2017	None	Never scheduled	Never scheduled	NIhon Nohyaku
999	Natamycin	2017	none	Never scheduled	Never scheduled	DSM Food Specialities
999	Phosphorous acid / fosetyl	2017	None	Never scheduled	Never scheduled	Nufarm / Bayer CropScience
999	Triflumezopyrim	2017	None	Never scheduled	Never scheduled	DuPont
999	Ethiprole	2018	None	Never scheduled	Never scheduled	Bayer CropScience
999	Fluazinam	2018	None	Never scheduled	Never scheduled	ISK Biosciences / Isihara Sangyo Kaisha
999	Mandestrobin	2018	None	Never scheduled	Never scheduled	Sumitomo Chemical
999	Norflurazon	2018	None	Never scheduled	Never scheduled	Tessenderlo Kerley Inc.
999	Pydiflumetofen SYN545794	2018	None	Never scheduled	Never scheduled	Syngenta
999	Pyriofenone	2018	None	Never scheduled	Never scheduled	ISK Biosciences / Isihara Sangyo Kaisha
999	Tioxazafen	2018	None	Never scheduled	Never scheduled	Monsanto
999	XDE-777	2018	None	Never scheduled	Never scheduled	Dow AgroSciences
999	Pyrifluquinazon	2018 2019T	None	Never scheduled	Never scheduled	Nihon Nohyaku
999	Metconazole	2019	None	Never scheduled	Never scheduled	Valent USA / Kureha
999	Afidopyropen	2019	None	Never scheduled	Never scheduled	Meiji SeikaPharma / BASF
999	BAS 750F	2019	None	Never scheduled	Never scheduled	BASF
999	Broflalinide	2019	None	Never scheduled	Never scheduled	Landis Internaitonal / Mitsui Chemicals
999	SYN546330	2019	None	Never scheduled	Never scheduled	Syngenta

Code	Chemical	Initial JMPR evaluation	Periodic reviews	Scheduled (Tox)	Scheduled (Residues)	Notes
999	Triflmuron	2019	None	Never scheduled	Never scheduled	Bayer
999	orthosulfamuron	2019	none	Never scheduled	Never scheduled	Nihon Nohyaku
999	SYN407	2020	None	Never scheduled	Never scheduled	Syngenta
999	Ethafluralin	2020	none	Never scheduled	Never scheduled	Gowan
999	Fluazaindolizine	2020	none	Never scheduled	Never scheduled	DuPont
999	BCS-CN88460	2020	none	Never scheduled	Never scheduled	Bayer CropScience

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)