CODEX ALIMENTARIUS COMMISSION

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Food and Agriculture Organization of the United Nations

World Health Organization

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TO:	Codex Contact Points Contact Points of international organizations having observer status with Codex
FROM:	Secretariat, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme
SUBJECT:	**REQUEST FOR COMMENTS ON THE RECOMMENDATIONS OF THE 2019 JOINT FAO/WHO MEETINGS ON PESTICIDE RESIDUES (JMPR)[1]**
DEADLINE:	**28 February 2021**

COMMENTS:	**To:**	**Copy to:**
	CCPR Secretariat Institute for Control of the Agrochemicals Ministry of Agriculture (ICAMA) E-mail: ccpr@agri.gov.cn	Secretariat Codex Alimentarius Commission Joint FAO/WHO Food Standards Programme E-mail: codex@fao.org

BACKGROUND

1. As CCPR52 has been rescheduled to April 2021, it was not possible to discuss the recommendations arising from the extraordinary and regular meetings of JMPR held in May and September 2019 respectively. In order to continue progressing work on the establishment of maximum residue limits (MRLs) for pesticides in Codex, the deadline for submission of comments on the JMPR recommendations has been extended as indicated above. Codex members and observer organizations who have not yet provided comments or would like to provide additional comments are kindly invited to do so by not later than the requested deadline (see paragraph 11).

A. MRLs AT STEP 3 OF THE PROCEDURE

JMPR Extraordinary Meeting

2. The Extraordinary Joint FAO/WHO Meeting on Pesticide Residues (JMPR) was held in Gatineau/Ottawa, Canada, from 7 to 17 May 2019.

3. The Meeting evaluated 19 pesticides and estimated maximum residue levels, which are recommended for use as maximum residue limits (MRLs) by the Codex Committee on Pesticide Residues (CCPR). The Meeting also estimated supervised trials median residue (STMR) and highest residue (HR) levels as a basis for estimation of the dietary exposure to residues of the pesticides reviewed.

JMPR Regular Meeting

4. The Regular Joint FAO/WHO Meeting on Pesticide Residues (JMPR) was held in Geneva, Switzerland, from 17 to 26 September 2019.

5. The Meeting evaluated 28 pesticides and in addition, a number of pesticides used on spices were considered. The Meeting also estimated maximum residue levels, which it recommended for use as maximum residue limits (MRLs) by CCPR. It also estimated STMR and HR levels as a basis for estimation of the dietary exposure to residues of the pesticides reviewed.

JMPR Extraordinary and Regular Meetings

6. Pesticides for which the estimated dietary exposure might, on the basis of the available information, exceed their Acceptable Daily Intakes (ADIs) are marked with footnotes, which are also applied to specific commodities when the available information indicated that the Acute Reference Dose (ARfD) of a pesticide might be exceeded when the commodity was consumed. The allocations and estimates are shown in Tables 1 and 2 in the Annex.

7. The tables include the Codex reference numbers of the compounds and the Codex classification numbers (CCNs) of the commodities, to facilitate reference to the Codex MRLs and other Codex documents. Both compounds and commodities are listed in alphabetical order.

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1 The recommendations of the JMPR for pesticide maximum residue limits correspond to Step 3 of the Codex Procedure.

8. Apart from the abbreviations indicated above, the following qualifications are used in the tables.

* (following name of pesticide)	New compound
** (following name of pesticide)	Compound reviewed within CCPR periodic review program
(*) (following recommended maximum residue level)	At or about the limit of quantification
Ar	The median or highest residue is reported at the moisture content of the feed commodity "as received"
Dw	The value is reported in the dry weight of the feed commodity
HR-P	Highest residue in a processed commodity, in mg/kg, calculated by multiplying the HR in the raw commodity by the processing factor
Po	The recommendation accommodates post-harvest treatment of the commodity.
PoP (following recommendation for processed foods (classes D and E in the Codex classification)	The recommendation accommodates post-harvest treatment of the primary food commodity.
STMR-P	An STMR for a processed commodity calculated by applying the concentration or reduction factor for the process to the STMR calculated for the raw agricultural commodity.
W (in place of a recommended MRL)	The previous recommendation is withdrawn, or withdrawal of the recommended MRL or existing Codex or draft MRL is recommended.

9. The Reports of the 2019 JMPR Extraordinary and Regular Meetings (including the Annexes) are available from the websites below:

   FAO weblink: http://www.fao.org/agriculture/crops/thematic-sitemap/theme/pests/jmpr/jmpr-rep/en/

   WHO weblink: http://www.who.int/foodsafety/publications/jmpr-reports/en/

10. Should anybody have problems in downloading the above documents, please contact the FAO or WHO JMPR Secretariats at the following addresses in order to get a copy as an email attachment:

FAO JMPR Secretariat
Plant Production and Protection Division
FAO of the United Nations
Viale delle Terme di Caracalla
00153 Rome, Italy
Tel:+39 06 57054246
E-mail: YongZhen.Yang@fao.org

WHO JMPR Secretariat
GEMS/Food Program
Department of Food Safety and Zoonoses (FOS)
World Health Organization
1211 Geneva 27, Switzerland
Tel: +41 22 791 3053
E-mail: madsens@who.int

REQUEST FOR COMMENTS

11. In view of the postponement of the 52nd Session of the Codex Committee on Pesticide Residues (CCPR52) to 26-31 July 2021, and the possible holding of this Session in virtual mode, Codex members and observers are encouraged to submit comments in reply to this CL within the extended deadline, in order to facilitate the consideration of the MRLs at the upcoming CCPR. In particular, submission of concern forms for their timely consideration by the JMPR Secretariat is highly important to facilitate the consideration of this item at CCPR52.

12. Member governments and interested international organizations having granted observer status in Codex wishing to submit comments on the proposed MRLs that correspond to Step 3 of the Codex Procedure as proposed by the 2019 JMPR Extraordinary and Regular Meetings and also on other recommendations which are relevant to the work of the 52nd Session of the Codex Committee on Pesticide Residues (see Tables 1 and 2 in the Annex) as well as concern forms should do so in writing, in conformity with the Procedures for the Elaboration of Codex Standards and Related Texts (*Codex Alimentarius Procedural Manual*) to the addresses and by the deadline indicated on cover page.

13. Circular letters are available on the Codex website[2] (Circular Letters, 2020) and also on the CCPR52 website[3].

[2] http://www.fao.org/fao-who-codexalimentarius/circular-letters/en
[3] http://www.fao.org/fao-who-codexalimentarius/meetings-reports/detail/en/?meeting=CCPR&session=52

ANNEX
(English Only)

TABLE 1

ACCEPTABLE DAILY INTAKES, ACUTE REFERENCE DOSES, ACUTE AND LONG-TERM DIETARY EXPOSURES, RECOMMENDED MAXIMUM RESIDUE LEVELS, SUPERVISED TRIALS MEDIAN RESIDUE VALUES AND OTHER VALUES RECORDED BY THE 2019 EXTRAORDINARY JMPR MEETING

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Acetochlor (280) ADI: 0–0.01 mg/kg bw ARfD: 1 mg/kg bw	AL 1020	Alfalfa hay	30 (dw)	-	Median: 4.55(as)	Highest: 13(as)
	AL 0157	Legume animal feed	W	3 (dw)		
	AL 0157	Legume animal feed, except alfalfa hay	3 (dw)	-		
	VD 0541	Soya bean (dry)	1.5	-	0.15	
	MO 0105	Edible offal (mammalian)	0.05	0.02(*)	0.0213	0.0418
	OR 0541	Soya bean oil, Refined			0.016	
Definition of the residue for compliance with the MRL and dietary risk assessment for animal and plant commodities: Sum of compounds hydrolysable with base to 2-ethyl-6-methylaniline (EMA) and 2-(1-hydroxyethyl)-6-methylaniline (HEMA), expressed in terms of acetochlor. The residue is not fat-soluble.						
Azoxystrobin (229) ADI: 0-0.2 mg/kg bw ARfD: Unnecessary	FT 0336	Guava	0.2		0.055	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Azoxystrobin. The residue is fat-soluble.						
Boscalid (221) ADI: 0-0.04 mg/kg bw ARfD: Unnecessary	FP 0226	Apple	W	2		
	FS 0013	Cherries, subgroup of	5		1.5	
	FI 0345	Mango	2		0.255	
	FS 2001	Peaches, subgroup of (including nectarine and apricots)	4		0.6	
	FS 0014	Plums, subgroup of (including fresh prunes)	1.5		0.25	
	FP 0009	Pome fruits, group of	2		0.35	
	DF 0014	Prunes, dried	5	10	0.7	
	FS 0012	Stone fruit	W	3		
	DT 1114	Tea, Green, Black (black fermented and dried)	40		6.25	
		Apple, juice			0.028	
		Dried prunes			0.7	
		Plum, puree			0.49	
		Tea, infusion			0.0125	
		Tea, instant tea			0.044	
Definition of the residue for compliance with the MRL for plant and animal commodities and dietary risk assessment for plant commodities: Boscalid. Definition of the residue for dietary risk assessment for animal commodities: Sum of Boscalid, 2-chloro-N-(4'-chloro-5-hydroxybiphenyl-2-yl) nicotinamide including its conjugate, expressed as boscalid. The residue is fat-soluble.						

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Chlorantraniliprole (263) ADI: 0-2 mg/kg bw ARfD: Unnecessary	VD 2065	Dry beans, subgroup of (except soya beans)	0.3		0.0305	
	VD 2066	Dry peas, subgroup of	0.3		0.0305	
	SO 3160	Palm fruit (African oil palm)	0.8		0.195	
	OC 0695	Palm oil, crude	2		0.507	
	OC1240	Palm kernel oil, crude			0.0098	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Chlorantraniliprole. The residue is fat-soluble						
Chlorothalonil (081) ADI: 0-0.02 mg/kg bw ARfD: 0.6 mg/kg bw **Metabolite SDS-3701** ADI: 0–0.008 mg/kg bw ARfD: 0.03 mg/kg bw	FB 0265	Cranberry	15	W	Chlorothalonil: 3.0 SDS-3701: 0.01	Chlorothalonil: 7.7 SDS-3701: 0.019
Definition of the residue for compliance with MRL for plant commodities: Chlorothalonil. Definition of the residue for dietary risk assessment for plant commodities: Chlorothalonil SDS-3701 (2,5,6-trichloro-4-hydroxyisophthalonitrile), all considered separately. Definition of the residue for compliance with MRL and dietary risk assessment for animal commodities: SDS-3701 (2,5,6-trichloro-4-hydroxyisophthalonitrile). The residue is not fat-soluble.						
Cyprodinil (207) ADI: 0-0.03 mg/kg bw ARfD: Unnecessary	VD 0541	Soya bean (dry)	0.3		0.085	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Cyprodinil. The residue is fat-soluble						
Dicamba (240) ADI: 0-0.3 mg/kg bw ARfD: 0.5 mg/kg bw	SO 0691	Cotton seed	W [A)]	0.04(*)		
	SO 0691	Cotton seed	3	--	0.69	--
	GC 0645	Maize	W [A)]	0.01(*)		
	GC 0645	Maize	0.01(*) [A)]	--	0.02 [B)]	--
	AS 0645	Maize fodder (dry)	W [A)]	0.6(dw)		
	AS 0645	Maize fodder (dry)	0.6(dw) [A)]	--	0.06(dw) [B)]	0.33(dw) [B)]
	VD 0541	Soya bean (dry)	W [A)]	10		
	VD 0541	Soya bean (dry)	10 [A)]	---	0.0535	--
	AL 0541	Soya bean fodder (dry)	150(dw)	--	35(as)	68(as)
	AB 0541	Soya bean hulls	15	--	0.065	--
	AB 1265	Soya bean meal	15	--	0.071	--
		Cotton seed oil	--		0.055	
		Maize oil, crude			0.00058 [B)]	
		Soya bean oil	--		0.0032	
		Soya milk	--		0.0032	
		Tofu	--		0.0034	
Definition of the residue for compliance with the MRL for soya bean, maize, and cotton: Sum of dicamba and 3,6-dichloro-2-hydroxybenzoic acid (DCSA; free and conjugated), expressed as dicamba; for other plant commodities: Dicamba. Definition of the residue for dietary risk assessment for soya bean, maize, and cotton: Sum of dicamba, 2,5-dichloro-3-hydroxy-6-methoxybenzoic acid (5-OH dicamba), 3,6-dichloro-2-hydroxybenzoic acid (DCSA; free and conjugated) and 2,5-dichloro-3,6-dihydroxybenzoic acid (DCGA; free and conjugated), expressed as dicamba; for other plant commodities: Sum of dicamba and 5-OH dicamba, expressed as dicamba.						

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Sum of dicamba and DCSA, expressed as dicamba. The residue is not fat-soluble. A) To withdraw the previous recommendation and replace it with a new one at the same level based on a new residue definition for compliance with the MRL. B) Recommended by 2010 JMPR based on conventional maize						
Fenazaquin (297) ADI: 0-0.05 mg/kg bw ARfD: 0.1 mg/kg bw	AM 0660	Almond hulls	4(dw)		Median: 1.2(as)	
	MO 0105	Edible offal (mammalian)	0.02(*)		0	0
	MF 0100	Mammalian fats (except milk fats)	0.02(*)		0	0
	MM 0095	Meat (from mammals other than marine mammals)	0.02(*)(Fat)		Muscle: 0 Fat: 0	Muscle: 0 Fat: 0
	ML 0106	Milks	0.02(*)		0	0
	FM 0183	Milk fats	0.02(*)		0	0
	TN 0085	Tree nuts, group of (except coconut)	0.02		0.01	0.016
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Fenazaquin. Definition of the residue for compliance with the MRL for animal commodities: Sum of Fenazaquin and the metabolite 2-hydroxy-fenazaquin acid expressed as fenazaquin. Definition of the residue for dietary risk assessment for animal commodities: Sum of Fenazaquin and the metabolites 2-(4-{2-[(2-hydroxyquinazolin-4-yl)oxy]ethyl}phenyl)-2-methylpropanoic acid (2-hydroxy-fenazaquin acid) and quinazolin-4-ol and 3,4-dihydroquinazolin-4-one (tautomeric forms of 4-hydroxyquinazoline), expressed as fenazaquin equivalents. The residue is fat soluble.						
Flonicamid (282) ADI: 0-0.07 mg/kg bw ARfD: Unnecessary	FC 0002	Lemons and Limes, subgroup of	1.5	-	0.22	
	FC 0004	Oranges, sweet, sour, subgroup of	0.4	-	0.115	
	FC 0005	Pumelo and grapefruit (including Shaddock-like hybrids), subgroup of	0.3	-	0.0635	
	AB0001	Citrus pulp, dry	3(dw)	-	Median: 0.396	
	JF 0001	Citrus juice			0.0044	
	OR 0001	Citrus oil, edible			0.0022	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Flonicamid. Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Flonicamid and the metabolite TFNA-AM, expressed as flonicamid. The residue is not fat-soluble.						
Flupyradifurone (285) ADI: 0-0.08 mg/kg bw ARfD: 0.2 mg/kg bw	FI 0326	Avocado	0.6	-	0.28	0.36
	SB 0715	Cacao beans	0.01(*)	-	0.071	-
	FB 2005	Cane berries, subgroup of	6	-	1.4	4.3
	SB 0716	Coffee beans	0.9	-	0.295	-
	DH 1100	Hops, dry	10	-	3.55	-
		Beer (hops)			0.0355	
		Cacao beans, roasted			0.0547	-
	DM 0715	Cocoa powder			0.116	-
		Chocolate			0.0497	-

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	SM 0716	Coffee beans, roasted			0.21	-
		Instant coffee			0.94	-
Definition of the residue for compliance with the MRL for plant commodities: Flupyradifurone. Definition of the residue for dietary risk assessment for plant commodities: Sum of flupyradifurone, difluoroacetic acid and 6-chloronicotinic acid, expressed as parent equivalents. Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Sum of flupyradifurone and difluoroacetic acid, expressed as parent equivalents. The residue is not fat-soluble.						
Fosetyl-Al (302) ADI: 0-1 mg/kg bw (Applies to fosetyl-aluminium and phosphonic acid, expressed as fosetyl-aluminium) ARfD: Unnecessary	FB 0264	Blackberries	70(FA)		5.95	
	SB 0716	Coffee beans	30(FA)		8.8	
	PE 0112	Eggs	0.05(*)		0	
	VB 0042	Flowerhead Brassicas (sub-group)	0.2(*)(F)		0.2	
	VB 2036	Head Brassicas (sub-group)	0.2(*)(F)		0.2	
	VL 0480	Kale	0.2(*)(F)		0.2	
	FI 0341	Kiwifruit	150(FA)		34.5	
	MF 0100	Mammalian fat (except milk fats)	0.3	0.2	0.13	
	FI 0353	Pineapple	15(FA)		2.35	
	PF 0111	Poultry fat	0.05(*)		0	
	PM 0110	Poultry meat	0.05(*)		0	
	PO 0111	Poultry, edible offal of	0.05(*)		0	
	MM 0105	Edible offal (mammalian)			Kidney: 0.32 Liver: 0.24	
	MM 0095	Meat (from mammals other than marine mammals)			Fat: 0.13 Muscle: 0.077	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Sum of fosetyl, phosphonic acid and their salts, expressed as phosphonic acid. Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Phosphonic acid. The residue is not fat-soluble (FA) based on Fosetyl-Al use; (F) based on Fosetyl use.						
Glyphosate (158) ADI: 0-1 mg/kg bw ARfD: Unnecessary	VD 2065	Dry beans, subgroup of (except soya beans)	15		0.32	
	VD 0071	Beans (dry)	W	2		
	VD 2066	Dry peas, subgroup of	10		1.7	
	VD 0533	Lentil (dry)	W	5		
	VD 0072	Peas (dry)	W	5		
Definition of the residue for compliance with the MRL for plant commodities - for soya bean, maize and rape: Sum of glyphosate and N-acetylglyphosate, expressed as glyphosate, for other crops: Glyphosate. Definition of the residue for compliance with the MRL for animal commodities: Sum of glyphosate and N-acetylglyphosate, expressed as glyphosate. Definition of the residue for dietary risk assessment for plant and animal commodities: Glyphosate, N-acetylglyphosate, AMPA and N-acetyl AMPA, expressed as glyphosate. The residue is not fat-soluble.						

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Mesotrione (277) ADI: 0-0.5 mg/kg bw ARfD: Unnecessary	FC 0001	Citrus fruit, group of	0.01(*)		0	
	FP 0009	Pome fruits, group of	0.01(*)		0	
	FS 0012	Stone fruits, group of	0.01(*)		0	
	TN 0085	Tree nuts group of	0.01(*)		0.01	
	AM 0660	Almond hulls	0.04(dw)		Median 0.01(as)	
Definition of the residue for compliance with the MRL and dietary risk assessment for animal and plant commodities: Mesotrione. The residue is not fat-soluble.						
Metaflumizone (236) ADI: 0-0.1 mg/kg bw ARfD: Unnecessary	FP 0226	Apple	0.9		0.275	
	SB 0716	Coffee bean	0.15		0.02	
	DF 0269	Dried grapes (=currants, raisins and sultanas)	13		2.55	
	MO 0105	Edible offal (mammalian)	0.02(*)	0.02(*)(w)	0.02	0.013(w)
	PE 0112	Eggs	0.02		0.0077	
	FB 0269	Grape	5		0.98	
	FC 0002	Lemons and limes, subgroup of	2		0.52	
	GC 0645	Maize	0.04		0.02	
	MF 0100	Mammalian fats (except milk fats)	0.6	0.02(*)(w)	0.092	0.013(w)
	MM 0095	Meat (from mammals other than marine mammals)	0.02(*)(Fat)	0.02(*)(w)	0.02	0.013(w)
	VC 0046	Melon	1		0.02	
		Milk fat	0.7	0.02(w)	0.33	0.013(w)
	ML 0106	Milks	0.02	0.01(w)	0.01	0.007(w)
		Orange oil	100		23	
	FC 0004	Orange, sweet, sour, subgroup of	3		0.66	
	PO 0111	Poultry edible offal	0.02(*)		0.0068	
	PF 0111	Poultry fat	0.08		0.069	
	PM 0110	Poultry meat	0.02(*)(Fat)		0.0022	
	VD 0541	Soya bean	0.2		0.02	
	GS 0659	Sugar cane	0.02(*)		0	
	FP 0226	Apple	0.9		0.275	
	JF 0226	Apple juice			0.022	
		Apple sauce			0.00825	
		Canned apples			0.00825	
		Dried apples			0.011	
		Grape, must, naturally cloudy			1.39	
		Grape, must, separated			0.16	
		Grape, pasteurized juice			1.04	
		Grape, wine			0.078	
		Instant coffee			0.046	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	JF 0004	Orange juice			0.0066	
		Roasted and ground beans			0.046	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Metaflumizone, sum of metaflumizone E-isomer and metaflumizone Z-isomer. The residue is fat-soluble.						
Methoprene (147) ADI: 0–0.09 mg/kg bw for the R,S racemate; 0–0.05 mg/kg bw for S-methoprene ARfD: Unnecessary	SO 0703	Peanut, whole	5(Po)		5	
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: Methoprene. The residue is fat-soluble.						
Pendimethalin (292) ADI: 0-0.1 mg/kg bw ARfD: 1 mg/kg bw	FB 2005	Cane berries, subgroup of	0.05(*)		0.05	0.05
	FB 2006	Bush berries, subgroup of	0.05(*)		0.05	0.05
	HH 0738	Mints	0.2	-	0.077	0.1
	OR 0738	Peppermint oil, edible	6	-	2.3	
	FB 0275	Strawberries	0.05(*)		0.05	0.05
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: Pendimethalin. The residue is fat-soluble.						
Spirotetramat (234) ADI: 0-0.05 mg/kg bw ARfD: 1 mg/kg bw	VR 0577	Carrot	0.04		0.0545	0.114
	FB 0275	Strawberry	0.3		0.08	0.19
	VR 0596	Sugar beet	0.06		0.052	Highest: 0.072
	AV 0596	Sugar beet leaves or tops (dry)	8(dw)		Median: 0.25(as)	Highest: 1.7(as)
	DM 0596	Sugar beet molasses	0.3		0.1	
	DM 3517	Sugar beet, sugar refined			0.034	
Definition of the residue for compliance with MRL for plant commodities: Spirotetramat and its enol metabolite, 3-(2,5-dimethylphenyl)-4-hydroxy-8- methoxy-1-azaspiro[4.5]dec-3-en-2-one, expressed as spirotetramat. Definition of the residue for dietary risk assessment for plant commodities: Spirotetramat, enol metabolite 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one, ketohydroxy metabolite 3-(2,5-dimethylphenyl)-3-hydroxy-8-methyoxy-1-azaspiro[4.5]decane-2,4-dione, monohydroxy metabolite cis-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one, and enol glucoside metabolite glucoside of 3-(2,5- dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one, expressed as spirotetramat. Definition of the residue for compliance with MRL and dietary risk assessment for animal commodities: Spirotetramat, enol metabolite, 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one, expressed as spirotetramat. The residue is not fat-soluble.						
Tebuconazole (189) ADI: 0-0.03 mg/kg bw ARfD: 0.3 mg/kg bw	AB 0001	Citrus pulp, Dry	3(dw)		Median: 1.9	
	FC0003	Mandarins (including mandarin-like hybrids) subgroup of	0.7(Po)		0.05	0.05
	OR 0004	Orange oil, edible	10		6.6	
	FC0004	Oranges, sweet, sour, subgroup of	0.4(Po)		0.05	0.05
		Orange marmalade			0.17	
		Orange peel			0.915	1.2

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Tebuconazole. The residue is not fat-soluble.						
Thiabendazole (065) ADI: 0-0.1 mg/kg bw ARfD: 0.3 mg/kg bw for women of child-bearing age 1 mg/kg bw for the general population	VP 2060	Beans with pods	0.01(*)		0	0
	VD 2065	Dry beans, subgroup of	0.01(*)		0	
	VD 2066	Dry peas, subgroup of	0.01(*)		0	
	FI 0345	Mango	7(Po)	5(Po)	0.0175	0.030
	VP 2061	Peas with pods, subgroup of	0.01(*)		0	
	VP 2062	Succulent beans without pods, subgroup of	0.01(*)		0	
	VP 2063	Succulent peas without pods, subgroup of	0.01(*)		0	
	VR 0508	Sweet potato	9(Po)		4.7	6.97
		Sweet potato - baked washed with peel			1.3	1.95
		Sweet potato - chips			0.094	0.139
		Sweet potato - flakes			0.376	0.558
		Sweet potato - fries			0.564	0.836
		Sweet potato - puree			0.094	0.139
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Thiabendazole. Definition of the residue for compliance with the MRL for animal commodities: Sum of thiabendazole and 5-hydroxythiabendazole. Definition of the residue for dietary risk assessment for animal commodities: Sum of thiabendazole, 5-hydroxythiabendazole and its sulfate conjugate.						

TABLE 2

ACCEPTABLE DAILY INTAKES (ADIs), ACUTE REFERENCE DOSES (ARFDs), ACUTE AND LONG-TERM DIETARY EXPOSURES, RECOMMENDED MAXIMUM RESIDUE LEVELS, SUPERVISED TRIALS MEDIAN RESIDUE VALUES (STMRs) AND OTHER VALUES RECORDED BY THE 2019 REGULAR JMPR MEETING

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Afidopyropen (312)* ADI: 0–0.08 mg/kg bw ARfD: 0.2 mg/kg bw (for women of child-bearing age) ARfD: 0.3 mg/kg bw (for general population)	AM 0660	Almond hulls	0.6(dw)		Median: 0.064(ar)	
	DF 0226	Apple, dried (peeled)	0.02		0.013	0.019
	VB 0041	Cabbages, head	0.5		0.02	0.10
	FS 0013	Cherries, subgroup of	0.03		0.02	0.031
	FC 0001	Citrus Fruit, group of	0.15		0.0535 [a]	0.086 [a]
	OR 0004	Citrus oil [b]	0.7		0.22	
	AB 0001	Citrus pulp, dry [b]	0.4		0.13	
	HH 3209	Coriander, leaves	5		2.5	4.8
	AB 1204	Cotton gin trash	1.5		Median: 0.65	Highest: 1.0
	SO 0691	Cotton seed	0.08		0.02	
	VC 0424	Cucumber	0.7		0.17	0.60
	HH 0730	Dill, leaves	5		2.5	4.8
	MO 0096	Edible offal (mammalian)	0.2		Liver: 0.22 Kidney: 0.13	Liver: 0.34 Kidney: 0.13
	PE 0112	Eggs	0.01(*)		0.022	0.098
	VO 2046	Eggplants, subgroup of	0.15		0.030	0.12
	VB 0042	Flowerhead Brassicas, subgroup of	0.4		0.135	0.34
	VC 2040	Fruiting vegetables, cucurbits – melon, pumpkins and winter squashes, subgroup of	0.05		0.027 [a]	0.048 [a]
	HS 0784	Ginger, rhizome (fresh)	0.01(*)		0	0
	VL 2050	Leafy greens, subgroup of	2		0.88	2.6
	VL 0054	Leaves of Brassicaceae, subgroup of	5		2.5	4.8
	MF 0100	Mammalian fats (except milk fats)	0.01(*)		0.13	0.13
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)		Muscle: 0.18 Fat: 0.13	Muscle: 0.26 Fat: 0.13
	ML 0106	Milks	0.001(*)		0.020	
	HH 0740	Parsley, leaves	5		2.5	4.8
	FS 2001	Peaches, subgroup of	0.015		0.02	0.022
	VO 0051	Peppers, subgroup of, (excluding okra, martynia and roselle)	0.1		0.036	0.11
	HS 0444	Peppers, chili dried	1		0.36	1.1
	FP 0009	Pome fruit, group of, (excluding persimmon)	0.03		0.021	0.029
	FS 0014	Plums, subgroup of	0.01(*)		0.02	0.02
	PO 0111	Poultry, edible offal of	0.01(*)		0.024(Liver)	0.11(Liver)
	PF 0111	Poultry, fats	0.01(*)		0.022	0.098

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	PM 0110	Poultry, meat	0.01(*)		0.022	0.098
	VD 0541	Soya bean (dry)	0.01(*)		0.02	
	VS 2080	Stem and petioles, subgroup of	3		0.54	2.2
	VC 0431	Summer squash	0.07		0.039	0.050
	VO 2045	Tomatoes, subgroup of	0.15		0.030	0.12
	VO 0448	Tomatoes, dried	0.7		0.17	0.70
	TN 0085	Tree nuts, group of	0.01(*)		0.02	0.02
	VR 0071	Tuberous and corm vegetables, subgroup of	0.01(*)		0	0
	HS 0794	Turmeric, root (fresh)	0.01(*)		0	0
	JF 0226	Apples, juice (pasteurized)			0.013	
	FP 0226	Apples, canned			0.013	
	FP 0226	Apples, sauce/puree			0.013	
	OR 0691	Cotton seed (refined oil)			0.0013	
	JF 0004	Citrus juice (raw) [b]			0.012	
		Citrus peel (fresh) [b]			0.096	0.15
	FC 0004	Marmalade [b]			0.012	
	VO 0448	Tomatoes, canned			0.016	0.065
	JF 0448	Tomatoes, juice (raw)			0.0026	
	VO 0448	Tomatoes, paste (concentrates sauce/puree)			0.016	
	VO 0448	Tomatoes, sauce/puree (single strength)			0.0072	
[a] Based on whole fruit, since no data were submitted on flesh only. [b] Based on processing studies on oranges.						
Definition of the residue for compliance with the MRL for plant commodities: Afidopyropen. Definition of the residue for dietary risk assessment for plant commodities: Sum of afidopyropen + dimer of [(3R,6R,6aR,12S,12bR)-3-[(cyclopropanecarbonyl)oxy]-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(pyridin-3-yl)-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl rac-cyclopropanecarboxylate(M007), expressed as afidopyropen. Definition of the residue for compliance with the MRL for animal commodities: Afidopyropen. Definition of the residue for dietary risk assessment for animal commodities, excluding liver: Afidopyropen + (3S,4R,4aR,6S, 6aS, 12R,12aS,12bS)-3,6,12-trihydroxy-4-(hydroxymethyl)-4,6a, 12b-trimethyl--9-(pyridin-3-yl)-1, 3,4,4a,5,6,6a,12, 12a,12b-decahydro-2H,11H-benzo- [ƒ] pyrano[4,3-b]chromen-11-one (M001) + Cyclopropane carboxylic acid (CPCA/M061) and (2R)-3-carboxy-2- [(cyclopropylcarbonyl)oxy]- N, N, N-trimethylpropan-1- aminium chloride (CPCA-carnitine conjugate/M060), expressed as afidopyropen. Definition of the residue for dietary risk assessment for animal commodities, liver: Afidopyropen + (3S,4R,4aR,6S, 6aS, 12R,12aS,12bS)-3,6,12-trihydroxy-4-(hydroxymethyl)-4,6a, 12b-trimethyl--9-(pyridin-3-yl)-1, 3,4,4a,5,6,6a,12, 12a,12b-decahydro-2H,11H-benzo- [ƒ] pyrano[4,3-b]chromen-11-one (M001) + Cyclopropane carboxylic acid (CPCA/M061) and (2R)-3-carboxy-2- [(cyclopropylcarbonyl)oxy]- N, N, N-trimethylpropan-1- aminium chloride (CPCA-carnitine conjugate/M060) + [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-(cyclopropylcarbonyl)oxy]-6,12-dihydroxy-4,6a,12b-trimethyl-9-(1-oxidopyridin-3-yl)-11-oxo-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-2H, 11H-benzo[f]pyrano[4,3-b]chromen-4-yl]methyl cyclopropane-carboxylate (M017), expressed as afidopyropen. The residue is not fat-soluble						
Benzovindiflupyr(261) ADI: 0–0.05 mg/kg bw	VA 2031	Bulb onion, subgroup of	0.02	-	0.01	0.015
	GS 0659	Sugar cane	0.4	0.04	0.069	0.25
	DM 0659	Sugar cane, molasses	-	-	0.006	-
		Sugar cane refined sugar	-	-	0.003	-
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: Benzovindiflupyr. The residue is fat-soluble.						

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Bifenthrin (178)	FB 0275	Strawberry [c]	3[c]	3	0.46	2.3
ADI: 0–0.01 mg/kg bw ARfD: 0.01 mg/kg bw	AS 0081	Straw and fodder (dry) of cereal grains	1(dw)	-	Median: 0.26(ar)	Highest: 0.45(ar)
[c] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of bifenthrin for the consumption of strawberries may present a public health concern. Definition of the residue for compliance with the MRL for plant and animal commodities and dietary risk assessment for plant commodities: Bifenthrin (sum of isomers). The residue is fat-soluble.						
Buprofezin (173) ADI: 0–0.009 mg/kg bw ARfD: 0.5 mg/kg bw **Aniline** ADI: 0–0.02 mg/kg bw ARfD: 0.02 mg/kg bw	AB 0001	Citrus pulp, dry	5	2	Median: 0.97	Highest: 1.9
	OR 0001	Citrus oil, edible	6		1.2	
	OC 0305	Olive oil, crude	20		3.9	
	TN 0085	Group of tree nuts	0.05(*)		0.05	0.05
	AM 0660	Almond hulls	3	2	Median: 0.22	
	TN 0660	Almond	W	0.05(*)	--	
	MF 0100	Mammalian fats except milk fats	0.01(*)		0	0
	PE 0112	Eggs	0.01(*)		0	0
	PO 0111	Poultry, edible offal of	0.01(*)		0	0
	PF 0111	Poultry fats	0.01(*)		0	0
	PM 0110	Poultry meat	0.01(*)		0	0
		Citrus flesh			0.039	0.078
		Citrus peel			0.67	1.3
	JF 0001	Citrus juice			0.12	
		Orange marmalade			0.25	
	DF 0226	Apples, dried			0.17	0.59
		Apple canned			0.015	
		Apple puree			0.019	
		Apple jelly			0.015	
	JF 0226	Apple juice			0.16	
	AB 1230	Apple pomace wet			Median: 0.56	
	DF 0269	Dried grapes			0.27	1.2
	JF 0269	Grape juice			0.073	
		Grape wine			0.2	
		Olive canned (pickled, fermented)			0.76	1.2
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: Buprofezin. The residue is not fat-soluble.						
Clethodim (187) ** ADI: 0–0.2 mg/kg bw ARfD: Unnecessary	AL 1020	Alfalfa fodder	W	10		
	AL 0061	Beans fodder	W	10		
	VD 0071	Beans (dry)	W	2		
	VP 0061	Beans, except broad bean and soya bean	W	0.5(*)		
	SO 0691	Cotton seed	W	0.5		
	OC 0691	Cotton seed oil, crude	W	0.5(*)		
	OR 0691	Cotton seed oil, edible	W	0.5(*)		
	MO 0105	Edible offal (mammalian)	W	0.2(*)		

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	PE 0112	Eggs	W	0.05(*)		
	VD 0561	Field pea (dry)	W	2		
	AM 1051	Fodder beet	W	0.1(*)		
	VA 0381	Garlic	W	0.5		
	MM 0095	Meat (from mammals other than marine mammals)	W	0.2(*)		
	ML 0106	Milks	W	0.05(*)		
	VA 0385	Onion, bulb	W	0.5		
	SO 0697	Peanut	W	5		
	VR 0589	Potato	W	0.5		
	PM 0110	Poultry meat	W	0.2(*)		
	PO 0111	Poultry, edible offal of	W	0.2(*)		
	SO 0495	Rape seed	W	0.5		
	OC 0495	Rape seed oil, crude	W	0.5(*)		
	OR 0495	Rape seed oil, edible	W	0.5(*)		
	VD 0541	Soya bean (dry)	W	10		
	OC 0541	Soya bean oil, crude	W	1		
	OR 0541	Soya bean oil, refined	W	0.5(*)		
	VR 0596	Sugar beet	W	0.1		
	SO 0702	Sunflower seed	W	0.5		
	OC 0702	Sunflower seed oil, crude	W	0.1(*)		
	VO 0448	Tomato	W	1		
Definition of the residue for compliance with the MRL for plant commodities: Sum of clethodim and its metabolites convertible to dimethyl 3-[2-(ethylsulfonyl)propyl]-pentanedioate (DME) and dimethyl 3-[2-(ethylsulfonyl)propyl]-3-hydroxy-pentanedioate (DME-OH), expressed as clethodim. Definition of the residue for compliance with the MRL for animal commodities: Sum of clethodim and its metabolites convertible to dimethyl 3-[2-(ethylsulfonyl)propyl]-pentanedioate (DME), expressed as clethodim. Definition of the residue for dietary risk assessment for plant and animal commodities: A conclusion could not be reached. The residue is fat-soluble.						
Cyclaniliprole (207) ADI: 0–0.04 mg/kg bw ARfD: Unnecessary	TN 0660	Almonds	0.03		0.019	
	AM 0660	Almond hulls	6		Median: 1.7	
	FB 2006	Bush berries, subgroup of	1.5		0.275	
	FB 0267	Elderberries	1.5		0.275	
	FB 2254	Guelder rose	1.5		0.275	
	FB 2005	Cane berries, subgroup of	0.8		0.27	
	FS 0013	Cherries, subgroup of	0.7	0.9	0.14	
	VB 0041	Cabbages, head	0.7		0.0325	
	VO 2700	Cherry tomato	W	0.1		
	FC 0001	Citrus fruit, group of	0.4	-	0.087	
	OR 0001	Citrus oil, edible	50		10.1	
	VC 2039	Cucumbers and summer squashes, subgroup of	0.05	0.06	0.021	
	DV 0448	Tomato, dried	0.35	0.4	0.11	
	MO 0105	Edible offal (mammalian)	0.2	0.01(*)	Kidney: 0.052 Liver: 0.061	
	VO 2046	Eggplants, subgroup of	0.15	0.1	0.0525	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	PE 0112	Eggs	0.01(*)		0	
	VB 0042	Flowerhead Brassicas, subgroup of	0.8	1	0.28	
	FB 0269	Grapes	0.6	0.8	0.12	
	VB 2036	Head Brassicas, subgroup of	W	0.7		
	VL 2050	Leafy greens, subgroup of	7		2.4	
	VL 0054	Leaves of Brassicaceae, subgroup of	10	15	3.5	
	MM 0095	Meat (from mammals other than marine mammals)	0.25(Fat)	0.01(*)(Fat)	Muscle: 0.016 Fat: 0.064	
	FB 2009	Low growing berries, subgroup of (except cranberries)	0.4		0.12	
	VC 2040	Melons, pumpkins and winter squashes, subgroup of	0.1	0.15	0.041	
	MF 0100	Mammalian fats (except milk fats)	0.25	0.01(*)	0.064	
	ML 0106	Milks	0.01	0.01(*)	0.004	
	FM 0183	Milk fats	0.2	0.01(*)	0.108	
	VO 0051	Peppers, subgroup of (except martynia, okra and roselle)	0.15	0.2	0.0525	
	HS 0444	Peppers, chili, dried	1.5	2	0.525	
	FS 2001	Peaches (including apricots and nectarines), subgroup of	0.3	0.3	0.053	
	FP 0009	Pome fruits	W	0.3		
	FP 0009	Pome fruits, group of (excluding Japanese persimmons)	0.2	-	0.057	
	FS 0014	Plums, subgroup of	0.15	0.2	0.052	
	PO 0111	Poultry, edible offal	0.01(*)	0		
	PF 0111	Poultry, fats	0.01(*)	0		
	PM 0110	Poultry, meat	0.01(*)	0		
	DT 1114	Tea, green, black (black, fermented and dried)	50		12.5	
	VO 2045	Tomatoes, subgroup of	0.08		0.033	
	VR 2071	Tuberous and corm vegetables, subgroup of	0.01(*)		0	
	DF 0014	Prunes	0.6	0.8	0.19	
	VO 0448	Tomato	W	0.1		
		Citrus juice			0.01	
	JF 0226	Apple, juice			0.019	
		Grape, must			0.08	
	JF 0269	Grape, juice			0.04	
		Grape, wine			0.04	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
		Potato crisps			0	
		Potato flakes/granules			0	
		Tea infusion			1.8	
		Tomato, canned			0.005	
	VW 0448	Tomato, paste			0.04	
	JF 0448	Tomato, juice			0.03	
Definition of the residue for compliance with the MRL for plant and animal commodities: Cyclaniliprole. Definition of the residue for estimation of dietary risk assessment for plant commodities: Cyclaniliprole + 3-bromo-2-((2-bromo-4H- pyrazolo[1,5-d]pyrido[3,2-b]-[1,4]oxazin-4-ylidene)amino)-5-chloro-N-(1-cyclopropylethyl)benzamide (NK-1375), expressed as cyclaniliprole equivalents. The molecular weight conversion factor to express NK-1375 in cyclaniliprole equivalents = 1.064. Definition of the residue for estimation of dietary risk assessment for animal commodities: Cyclaniliprole. The residue is fat-soluble.						
Cypermethrin (118) ADI: 0–0.02 mg/kg bw ARfD: 0.04 mg/kg bw	VR 0604	Ginseng	0.03(*)		0.03	0.03
	DV 0604	Ginseng, dried including red ginseng	0.15		0.06	0.10
	DM 0604	Ginseng, extracts	0.06(*)		0.06	0.06
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: Cypermethrin (sum of isomers). The residue is fat-soluble.						
Dimethoate (027)** ADI: 0–0.001 mg/kg bw ARfD: 0.02 mg/kg bw	VS 0620	Artichoke, globe	W	0.05		
	VS 0621	Asparagus	W	0.05(*)		
	GC 0640	Barley	W	2		
	VB 0402	Brussels sprouts	W	0.2		
	VB 0403	Cabbage, Savoy	W	0.05(*)		
	MO 0812	Cattle, edible offal of	W	0.05(*)		
	VB 0404	Cauliflower	W	0.2		
	VS 0624	Celery	W	0.5		
	FS 0013	Cherries	W	2		
	FC 0001	Citrus fruits	W	5		
	PE 0112	Eggs	W	0.05(*)		
	VL 0482	Lettuce, head	W	0.3		
	MF 0100	Mammalian fats (except milk fats)	W	0.05(*)		
	FI 0345	Mango	W	1(Po)		
	MM 0096	Meat of cattle, goats, horses, pigs and sheep	W	0.05(*)		
	ML 0107	Milk of cattle, goats and sheep	W	0.05(*)		
	FP 0230	Pear	W	1		
	VP 0063	Peas (pods and succulent=immature seeds)	W	1		
	HS 0444	Peppers Chili, dried	W	3		
	VO 0445	Peppers, sweet (including pimento or pimiento)	W	0.5		
	VR 0589	Potato	W	0.05		
	PF 0111	Poultry fats	W	0.05(*)		
	PM 0110	Poultry meat	W	0.05(*)		

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	PO 0111	Poultry, edible offal of	W	0.05(*)		
	MO 0822	Sheep, edible offal of	W	0.05(*)		
	HS 0191	Spices, fruits and berries	W	0.5		
	HS 0193	Spices, roots and rhizomes	W	0.1(*)		
	HS 0190	Spices, seeds	W	5		
	VR 0596	Sugar beet	W	0.05		
	FT 0305	Table olives	W	0.5		
	VL 0506	Turnip greens	W	1		
	VR 0506	Turnip, garden	W	0.1		
	GC 0654	Wheat	W	0.05		
	AS 0654	Wheat straw and fodder, dry	W	1		
Residue definition for compliance with the MRL in plant and animal commodities: Dimethoate and omethoate (measured and reported separately). Residue definition for dietary risk assessment for plant and animal commodities: The Meeting was unable to recommend a definition for dietary risk assessment. The residue is not fat-soluble.						
Fluazifop-p-butyl (283)[d] ADI: 0–0.004 mg/kg bw ARfD: 0.4 mg/kg bw	FB 2005	Cane berries, subgroup of	0.08	0.01(*)	0.021	0.074
	FB 0021	Currants, black, red, white	W	0.01(*)		
	FB 0268	Gooseberry	W	0.01(*)		
	FB 2006	Bush berries, subgroup of	0.3	-	0.021	0.26
	FB 0267	Elderberries	0.3		0.021	0.26
	FB 2254	Guelder rose	0.3		0.021	0.26
	FB 0275	Strawberry	3	0.3	0.685	1.5
[d] Based on the decision of CCPR 2017 (REP17/PR) to withdraw the draft MRLs for sweet potato and yam, long-term dietary exposure is unlikely to present a public health concern. Definition of the residue for compliance with the MRL for plant commodities: Total fluazifop, defined as the sum of fluazifop-P-butyl, fluazifop-P-acid (II) and their conjugates, expressed as fluazifop-P-acid. Definition of the residue for dietary risk assessment for plant commodities: Sum of fluazifop-P-butyl, fluazifop-P-acid (II), 2-[4-(3-hydroxy-5-trifluoromethyl-2-phenoxy)pyridyloxy] propionic acid (XL), 5-trifluoromethyl-2-pyridone (X) and their conjugates, expressed as fluazifop-P-acid. Definition of the residue for compliance with MRLs and for dietary risk assessment for animal commodities: Total fluazifop, defined as the sum of fluazifop-P-butyl, fluazifop-P-acid (II) and their conjugates, expressed as fluazifop-P-acid. The residue is fat-soluble.						
Fluensulfone (265) ADI: 0–0.01 mg/kg bw ARfD: 0.3 mg/kg bw	FC 0001	Citrus fruit, group of	0.2		0.01	0.063
	FP 0009	Pome fruit, group of (except Persimmon, Japanese)	0.2		0	0
	FS 0012	Stone fruit, group of	0.09		0	0
	FB 2008	Small fruit vine climbing, Subgroup of	0.7		0	0
	GS 0659	Sugar cane	0.06		0.01	0.01
	TN 0085	Tree nuts, group of	0.025(*)		0.01	0.01
	SB 0716	Coffee bean	0.05		0	
	GC 2086	Wheat, similar grains, and pseudocereals without husks, subgroup of	0.08		0.01	
	GC 2087	Barley, similar grains, and pseudocereals with husks, subgroup of	0.08		0.01	
	GC 2091	Maize cereals, subgroup of	0.15		0.01	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	GC 2090	Sweet corns, subgroup of	0.15		0.01	0.01 (corn-on-the-cob, baby corn)
	GC 2088	Rice cereals, subgroup of	0.04		0.01	
	GC 2089	Sorghum grain and millet, subgroup of	0.04		0.01	
	AS 0162	Hay or fodder (dry) of grasses except maize fodder and rice straw and fodder, dry	15(dw)		0.01(ar) [median]	0.02(ar) [highest]
	AS 0645	Maize fodder	0.6(dw)		0.01(ar) [median]	0.01(ar) [highest]
	AS 0649	Rice straw and fodder, dry	0.06(dw)		0.01(ar) [median]	0.01(ar) [highest]
	AS 0081	Straw or fodder (dry) of cereal grains (except maize fodder and rice straw and fodder, dry)	6(dw)		0.01(ar) [median]	0.01(ar) [highest]
	AM 0660	Almond hulls	7(dw)		0.01(ar) [median]	
	AB 0001	Citrus pulp, dry	1.5		0.01 [median]	
	OR 0001	Citrus oil, edible	1.5		0.34	
	JF 0226	Apple juice	0.4		0	
	DF 0226	Apples, dried	1		0	0
	DF 0014	Prunes	0.3		0	0
	DF 5259	Dried grapes	2		0	0
	DM 0659	Sugar cane molasses	0.5		0	0
Definition of the residue for compliance with the MRL for plant commodities: Sum of fluensulfone and 3,4,4-trifluorobut-3-ene-1-sulfonic acid (BSA), expressed as fluensulfone equivalents. Definition of the residue for dietary risk assessment for plant commodities: Fluensulfone. Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: Fluensulfone. The residue is fat-soluble.						
Fluxapyroxad (256) ADI: 0–0.02 mg/kg bw ARfD: 0.3 mg/kg bw	FC 0001	Citrus fruit, group of	W	1	--	--
	FC 0002	Lemons and limes (including citron), subgroup of	1	--	0.38	0.46
	FC 0003	Mandarins, subgroup of	1	--	0.38	0.46
	FC 0004	Oranges, sweet, sour (including orange-like hybrids), subgroup of	1.5	--	0.395	0.59
	FC 0005	Pummelo and grapefruits (including Shaddock-like hybrids, among other grapefruit), subgroup of	0.6	--	0.15	0.27
	OR 0001	Citrus oil, edible	90	60	23	--
	AB 0001	Citrus pulp, dry	8	--	1.9	--
		Lemon/lime/mandarin juice (raw)	--	--	0.015	--
	JF 0004	Orange juice (raw)	--	--	0.016	--
	JF 0203	Grapefruit juice (raw)	--	--	0.006	--
		Grapefruit oil	--	--	8.9	--
		Lemon/lime peel (fresh)	--	--	0.72	0.87

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
		Orange peel (fresh)	--	--	0.72	1.1
		Citrus wet pomace	--	--	0.47	0.71
		Marmalade	--	--	0.026	--
Definition of the residue for compliance with the MRL for plant and animal commodities: Fluxapyroxad. Definition of the residue for dietary risk assessment for plant commodities: Sum of fluxapyroxad and 3-difluoromethyl)- N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1H-pyrazole-4-carboxamide (M700F008) and 3-(difluoromethyl)- 1-(ß-D-glucopyranosyl)-N-(3',4',5'-triflurobipheny-2-yl)-1H-pyrzaole-4- carboxamide (M700F048) and expressed as parent equivalents. Definition of the residue for dietary risk assessment for animal commodities: Sum of fluxapyroxad and 3-(difluoromethyl)- N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1H-pyrazole-4-carboxamide (M700F008) expressed as parent equivalents. The residue is fat-soluble.						
Isofetamid (290) ADI: 0-0.05 mg/kg bw ARfD: 3 mg/kg bw	FB 2006	Bush berries, subgroup of	4	5	0.31	3
	VD 2065	Dry beans (except soya beans), subgroup of	0.09	0.05	0.01	
	VD 2066	Dry peas, subgroup of	0.09	0.05	0.01	
Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: Isofetamid. Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: Sum of isofetamid and 2-[3-methyl-4-[2- methyl-2-(3-methylthiophene-2-carboxamido) propanoyl]phenoxy]propanoic acid (PPA), expressed as isofetamid. The residue is fat-soluble.						
Kresoxim-methyl (199) ADI: 0–0.3 mg/kg bw ARfD: Unnecessary	FP 0009	Pome fruit	W	0.2		
	FP 0009	Pome fruit (except persimmon, Japanese)	0.15		0.11	
		Apple sauce			0.032	
	JF 0226	Apple juice			0.022	
	DF 0226	Apples, dried			0.043	
Definition of the residue for compliance with the MRL for plant commodities: Kresoxim-methyl. Definition of the residue for dietary risk assessment for plant commodities: Sum of kresoxim-methyl and metabolites (2E)-(methoxyimino){2-[(2-methylphenoxy)methyl]phenyl}acetic acid (490M1) and (2E)-{2-[(4-hydroxy-2-methylphenoxy)methyl]phenyl}(methoxyimino)acetic acid (490M9) including their conjugates expressed as kresoxim-methyl. Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Sum of metabolites (2E)-(methoxyimino){2- [(2-methylphenoxy)methyl]phenyl}acetic acid (490M1), and (2E)-{2-[(4-hydroxy-2-methylphenoxy)methyl]phenyl}(methoxyimino)acetic acid (490M9) expressed as kresoxim-methyl. The residue is not fat-soluble.						
Mandestrobin (307)* ADI: 0–0.2 mg/kg bw ARfD: 3 mg/kg bw (for women of child-bearing age)	FB 0269	Grapes	5	-	1.4	3.7
	DF 0269	Grapes, dried (=currants, raisins and sultanas)	10		2.8	7.4
	MF 0100	Mammalian fats (except milk fats)	0.01(*)	-	0	0
	ML 0106	Milks	0.01(*)	-	0	-
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)	-	0(Muscle) 0(Fat)	0(Muscle) 0(Fat)
	MO 0105	Edible offal (mammalian)	0.01(*)	-	0(Liver) 0(Kidney)	0(Liver) 0(Kidney)
	PE 0112	Eggs	0.01(*)	-	0	0
	PF 0111	Poultry fats	0.01(*)	-	0	0
	PM 0110	Poultry meat	0.01(*)	-	0(Muscle) 0(Fat)	0(Muscle) 0(Fat)
	PO 0111	Poultry, edible offal of	0.01(*)	-	0	0
	FB 0275	Strawberry	3.0	-	0.87	2.2
	SO 0495	Rape seed	0.2	-	0.02	-

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	OR 0495	Rape seed oil	-	-	0.0012	
Definition of the residue for compliance with MRL in plant and animal commodities and for dietary risk assessment in plant commodities: Mandestrobin. Definition of the residue for acute dietary risk assessment in animal commodities: Sum of parent, (2RS)-2-[2-(4-hydroxy-2,5-dimethylphenoxymethyl)phenyl)-2-methoxy-N-methylacetamide (4-OH-mandestrobin) + (2RS)-2-(2-hydroxymethylphenyl)-2-methoxy-N-methylacetamide (De-XY-mandestrobin) + 2RS)-2-[2-(2-hydroxymethyl-5- methylphenoxymethyl)phenyl]-2-methoxy-N-methylacetamide (2-CH_2-OH-mandestrobin) + 2-({2-[(1RS)-1-methoxy-2-(methylamino)-2-oxoethyl]benzyl}oxy)-4-methylbenzoic acid (2-COOH-mandestrobin), + 3-({2-[(1RS)-1-methoxy-2-(methylamino)-2-oxoethyl]benzyl}oxy)-4-methylbenzoic acid (5-COOH-mandestrobin) and their conjugates, expressed as parent compound. Definition of the residue for long-term dietary risk assessment in animal commodities: Sum of parent, (2RS)-2-[2-(4-hydroxy-2,5-dimethylphenoxymethyl)phenyl)-2-methoxy-N-methylacetamide (4-OH-mandestrobin), and its conjugates, expressed as parent compound. The residue is fat-soluble.						
Metconazole (313)* ADI: 0–0.04 mg/kg bw ARfD: 0.04 mg/kg bw **Triazole alanine and Triazole acetic** ADI: 0–1 mg/kg bw ARfD: Unnecessary **1,2,4-triazole** ADI: 0–0.2 mg/kg bw ARfD: 0.3 mg/kg bw	FI 0327	Banana	0.1(*)		0.1	0.1
	FB 0020	Blueberries	0.5		0.14	0.33
	VP 0061	Beans with pods (Phaseolus spp.) immature pods and succulent seeds)	0.05(*)		0	0
	SO 0691	Cotton seed	0.3		0.0345	
	MO 0105	Edible offal (mammalian)	0.04(*)		0.037	0.037
	PE 0112	Eggs	0.04(*)		0	0
	VA 0381	Garlic	0.05(*)		0.05	0.05
	TN 0085	Tree nuts, group of	0.04(*)		0	0
	GC 0645	Maize	0.015		0.01	
	MF 0100	Mammalian fats (except milk fats)	0.04(*)		0	0
	MM 0095	Meat (from mammals other than marine mammals)	0.04(*)		0	0
	ML 0106	Milks	0.04(*)		0	
	VA 0385	Onion, bulb	0.05(*)		0.05	0.05
	SO 0697	Peanut	0.04(*)		0.04	
	PO 0111	Poultry, edible offal of	0.04(*)		0.019	0.020
	PF 0111	Poultry fats	0.04(*)		0	0
	PM 0110	Poultry meat	0.04(*)		0	0
	SO 0495	Rape seed	0.15		0.02	
	FS 0013	Cherries, subgroup of	0.3		0.07	0.16
	VD 2065	Subgroup of dry beans except soya beans	0.04(*)		0.04	
	VD 2066	Dry peas, subgroup of	0.15		0.0425	
	FS 2001	Peaches, subgroup of	0.2		0.045	0.09
	FS 0014	Plums, subgroup of	0.1		0.040	0.05
	SO 2091	Sunflower seeds, subgroup of	1.5		0.089	
	VR 2071	Tuberous and corm vegetables, subgroup of	0.04(*)		0	0
	VR 0596	Sugar beet	0.07		0.02	
	VD 0541	Soya bean (dry)	0.04		0.01	
	GS 0659	Sugar cane	0.06		0.0205	0.036

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	GC 0447	Sweet corn (corn-on–the-cob)	0.015		0.01	0.01
	DF 0014	Prunes, dried	0.5		0.092	0.115
	OR 0495	Rape seed oil, edible	0.5		0.032	
	OR 0697	Peanut oil, edible	0.06		0.056	
	OR 0691	Cotton seed oil, edible	-		0.004	
	OR 0541	Soya bean oil, refined	-		0.005	
	AL 3354	Soya bean hay	8(dw)		Median: 1.7(ar)	Highest: 3.1(ar)
	AS 0640	Barley straw and fodder, dry	25(dw)		Median: 5.9(ar) (hay), 2.3(ar) (straw)	Highest: 13(ar) (hay), 8.8(ar) (straw)
	AS 0647	Oat straw and fodder, dry	25(dw)		Median: 5.9(ar) (hay), 2.3(ar) (straw)	Highest: 13(ar) (hay), 8.8(ar) (straw)
	AS 0650	Rye straw and fodder, dry	25(dw)		Median: 5.9(ar) (hay), 2.3(ar) (straw)	Highest: 13(ar) (hay), 8.8(ar) (straw)
	AS 0653	Triticale straw and fodder, dry	25(dw)		Median: 5.9(ar) (hay), 2.3(ar) (straw)	Highest: 13(ar) (hay), 8.8(ar) (straw)
	AS 0654	Wheat straw and fodder, dry	25(dw)		Median: 5.9(ar) (hay), 2.3(ar) (straw)	Highest: 13(ar) (hay), 8.8(ar) (straw)
	AB 1204	Cotton gin trash	10(dw)		Median: 2.65(ar)	Highest:4.1(ar)
	AS 0645	Maize fodder (dry)	7(dw)		Median: 1.85(ar)	Highest:3.2(ar)
		Sugar, sugar beet			0.012	
		Sugar cane, refined sugar			0.002	
Definition of the residue for compliance with MRL for plant and animal commodities: Metconazole (sum of cis and trans isomer). Definition of the residue for dietary risk assessment for plant commodities: Metconazole (sum of cis and trans isomer). Definition of the residue for compliance with MRL and dietary risk assessment for animal commodities: Sum of metconazole (cis and trans-isomer) and metabolites (1SR,2SR,5RS)-5-(4-chlorobenzyl)-2-(hydroxymethyl)-2-methyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (M1; free and conjugated) and (1RS,2SR,3RS)-3-(4-chlorobenzyl)-2-hydroxy-1-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanecarboxylic acid (M12; free and conjugated), expressed as metconazole. The residue is not fat-soluble.							
Omethoate (055)	HS 0191	Spices, fruits and berries	W	0.01		
	HS 0193	Spices, roots and rhizomes	W	0.05		
These MRLs applied to residues that may have resulted from the use of dimethoate.						
Penthiopyrad (253) ADI: 0–0.1 mg/kg bw ARfD: 1 mg/kg bw	FB 2005	Cane berries, subgroup of	10		3.7	4.8
	FB 2006	Bush berries, subgroup of	7		1.7	4.0
	FB 0267	Elderberries	7		1.7	4.0
	FB 2254	Guelder rose	7		1.7	4.0
Definition of the residue for compliance with MRL for plant commodities: Penthiopyrad. Definition of the residue for compliance with MRL for animal commodities and for dietary risk assessment for plant and animal commodities: Sum of penthiopyrad and 1-methyl-3-trifluoromethyl-1H-pyrazole-4-carboxamide (PAM), expressed as penthiopyrad. The residue is not fat-soluble.						
Picoxystrobin (258) ADI: 0-0.09 mg/kg bw ARfD: 0.09 mg/kg bw	GC 0651	Sorghum grain	0.02		0.01	
	SO 0691	Cottonseed	2		0.205	
	SB 0716	Coffee bean	0.04		0.01	
	DT 1114	Tea, green, black (black, fermented and dried)	15		1.2	
	MO 0105	Edible offal (mammalian)	0.02	0.02	Liver: 0.006 Kidney: 0	Liver: 0.01 Kidney: 0

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	MF 0100	Mammalian fats (except milk fats)	0.02	0.02	0.008	0.015
	MM 0095	Meat (from mammals other than marine mammals)	0.02(Fat)	0.02(Fat)	Muscle: 0 Fat: 0.008	Muscle: 0 Fat: 0.015
	ML 0106	Milks	0.01(*)	0.01(*)	0	
	AL 1020	Alfalfa fodder	10(dw)		Median:1.3(dw)	Highest: 7.4(dw)
	AS 0651	Sorghum straw and fodder, dry	1(dw)		Median: 0.042(dw)	Highest: 0.053(dw)
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Picoxystrobin. Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: Picoxystrobin. The residue is fat-soluble.						
Propiconazole (160) ADI: 0–0.07 mg/kg bw ARfD: 0.3 mg/kg bw	FS 2001	Peaches, subgroup of	4(Po)	0.7(Po)	1.7	2.5
Definition of the residue for compliance with the MRL for plant and animal commodities: Propiconazole. Definition of the residue for dietary risk assessment for plant and animal commodities: Propiconazole plus all metabolites convertible to 2,4-dichloro-benzoic acid, expressed as propiconazole. The residue is fat-soluble.						
Pydiflumetofen (309) ADI: 0–0.1 mg/kg bw ARfD: 0.3 mg/kg bw	GC 2087	Barley, similar grains, and pseudocereals with husks, Subgroup of	3		0.23	
	AS 0640	Barley straw and fodder, dry	50(dw)		Median: 9.2(dw)	Highest: 40(dw)
	VB 0040	Brassica vegetables (except Brassica leafy vegetables), group of	0.1		0.02	0.09
	SO 0691	Cottonseed	0.3		0.08	
	VD 2065	Dry beans, subgroup of	0.4		0.028	
	VD 2066	Dry peas, subgroup of	0.4		0.028	
	MO 0105	Edible offal (mammalian)	0.1		Liver: 0.044 Kidney: 0.051	Liver: 0.43 Kidney: 0.29
	PE 0112	Eggs	0.02		0.02	0.03
	VC 0045	Fruiting vegetables, Cucurbits, group of	0.4		0.12	0.27
	VO 0050	Fruiting vegetables, other than cucurbits, group of (except martynia, okra and roselle)	0.5		0.11	0.42
	VL 2050	Leafy greens, subgroup of[e]	40 [e]		12.5	17
	VL 0054	Leaves of Brassicaceae, subgroup of	0.1		0.02	0.09
	VL 2052	Leaves of root and tuber vegetables, subgroup of (except leaves of tuber vegetables)	0.07		0.02	0.05
	AL 0157	Legume animal feeds	30(dw)		Median: 9.2(dw)	Highest: 15(dw)
	VP 0060	Legume vegetables, group of	0.02		0.02	0.02
	GC 2091	Maize cereals, subgroup of	0.04		0.03	
	CF 1255	Maize flour	0.07		0.048	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	AS 0645	Maize fodder	18(dw)		3.1(ar)	13(ar)
	OR 0645	Maize oil, edible	0.08		0.057	
	VO 2709	Martynia	0.02		0.02	0.02
	MF 0100	Mammalian fats (except milk fats)	0.1		0.015	0.069
	MM 0095	Meat (from mammals other than marine mammals)	0.1(Fat)		Muscle: 0.02 Fat: 0.015	Muscle: 0.02 Fat: 0.069
	ML 0106	Milks	0.01(*)		0.02	
	AS 0646	Millet fodder, dry	0.3(dw)		Median: 0.08(ar)	Highest:0.28(ar)
	AS 0647	Oat straw and fodder, dry	50(dw)		Median: 9.2(dw)	Highest: 40(dw)
	VO 0442	Okra	0.02		0.02	0.02
	SO 0697	Peanut	0.05		0.03	
	OR 0697	Peanut oil, edible	0.15		0.072	
	HS 0444	Peppers, chili, dried	5		1.1	4.2
	DV 0589	Potato, dried	0.5		0.13	0.36
	PO 0111	Poultry, edible offal of	0.01(*)		0.02	0.02
	PF 0111	Poultry fats	0.01(*)		0.02	0.02
	PM 0110	Poultry meat	0.01(*)		0.02	0.02
	GC 2088	Rice cereals, subgroup of	0.03		0.03	
	AS 0649	Rice straw and fodder, dry	0.3(dw)		Median: 0.08(ar)	Highest:0.28(ar)
	VR 2070	Root vegetables, subgroup of	0.1		0.02	0.07
	VO 0446	Roselle	0.02		0.02	0.02
	AS 0650	Rye straw and fodder, dry	50(dw)		Median: 9.2(dw)	Highest: 40(dw)
	SO 2090	Small seed oilseeds, Subgroup of	0.9		0.0945	
	GC 2089	Sorghum Grain and Millet, Subgroup of	0.03		0.03	
	AS 0651	Sorghum straw and fodder, dry	0.3(dw)		Median: 0.08(ar)	Highest:0.28(ar)
	VS 2080	Stems and petioles, Subgroup of	15		4.4	9.3
	SO 2091	Sunflower seeds, subgroup of	0.3		0.08	
	GC 2090	Sweet Corns, subgroup of	0.03		0.03	0.03
	DV 0448	Tomato, dried	7		1.2	4.4
	AS 0653	Triticale straw and fodder, dry	50(dw)		Median: 9.2(dw)	Highest: 40(dw)
	VR 2071	Tuberous and corm vegetables, subgroup of	0.1		0.03	0.084
	CM 0654	Wheat bran, processed	1		0.14	
	CF 1211	Wheat germ	0.6		0.091	
	GC 2086	Wheat, similar grains, and pseudocereals without husks, subgroup of	0.4		0.063	
	AS 0654	Wheat straw and fodder, dry	50(dw)		Median: 9.2(dw)	Highest: 40(dw)

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
		Barley bran			0.083	
		Barley flour			0.053	
		Maize bran			0.14	
		Maize germs			0.063	
		Maize grits			0.013	
	CF 0645	Maize meal			0.028	
		Maize starch			0.013	
		Miso			0.004	
		Oats bran			0.003	
		Oats flour			0.011	
		Pearled barley			0.01	
		Potato chips			0.014	
		Potato crisps			0.014	
		Potato flakes			0.014	
		Potato starch			0.014	
		Potato, baked (unpeeled)			0.014	0.038
		Potato, boiled (peeled)			0.014	0.038
		Rape seed refined oil			0.035	
		Rolled oats			0.003	
		Soya bean flour			0.002	
		Soya bean milk			0.002	
	OR 0541	Soya bean oil, refined			0.005	
		Soya sauce			0.002	
		Tofu			0.004	
	JF 0048	Tomato juice (pasteurized)			0.005	
	VW 0448	Tomato paste			0.075	
		Tomato puree			0.037	
		Tomato wet pomace			0.43	
		Tomato, canned			0.005	0.019
	CF 1211	Wheat flour			0.02	
		Wheat gluten			0.11	
		Wheat starch			0.002	
		Wheat, wholemeal bread			0.027	
[e] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of pydiflumetofen for the consumption of Leafy greens may present a public health concern. Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: Pydiflumetofen. Definition of the residue for compliance with the MRL for animal commodities: Pydiflumetofen. Definition of the residue for dietary risk assessment for animal commodities, except mammalian liver and kidney: Sum of pydiflumetofen and 2,4,6-trichlorophenol (2,4,6-TCP) and its conjugates, expressed as pydiflumetofen. Definition of the residue for dietary risk assessment for mammalian liver and kidney: Sum of pydiflumetofen, 2,4,6-trichlorophenol (2,4,6-TCP) and its conjugates, and 3-(difluoromethyl)-N-methoxy-1-methyl-N-[1-methyl-2-(2,4,6-trichloro-3-hydroxy- phenyl) ethyl]pyrazole-4-carboxamide (SYN547897) and its conjugates, expressed as pydiflumetofen. The residue is fat-soluble.						
Pyflubumide (314)*	FP 0226	Apple [f]	1 [f]		0.41	0.55
ADI: 0–0.007 mg/kg bw ARfD: 0.008 mg/kg bw	DT 1114	Tea, green, black (black, fermented and dried) [f]	80 [f]		13	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	JF 0226	Apple juice			0.001	
		Apple sauce			0.008	
	DF 0226	Apples, dried			0.02	0.028
		Tea infusion			0.004	
[f] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of pyflubumide for the consumption of apple and tea may present a public health concern. Definition of the residue for compliance with the MRL for plant commodities: Pyflubumide. Definition of the residue for estimation of dietary risk assessment for plant commodities: Sum of pyflubumide and 3'-isobutyl-1,3,5-trimethyl-4´-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]pyrazole-4-carboxanilide, expressed as pyflubumide.						
Pyraclostrobin (210) ADI: 0–0.03 mg/kg bw ARfD: 0.7 mg/kg bw	VR 2070	Root vegetables, subgroup of	W	0.5		
	VR 2070	Root vegetables, subgroup of (includes all commodities in the subgroup except sugar beet)	0.5	-	0.12	0.3
	VL 0502	Spinach	0.6	1.5	0.071	0.31
Definition of the residue for compliance with MRL and for dietary risk assessment for plant and animal commodities: Pyraclostrobin. The residue is fat-soluble.						
Pyridate (315)*						
ADI: 0–0.2 mg/kg bw ARfD: 2 mg/kg bw						
Pyrifluquinazon (316)*						
ADI: 0–0.005 mg/kg bw ARfD: 1 mg/kg bw						
Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: Sum of pyrifluquinazon and 1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one (IV-01) expressed as pyrifluquinazon. Definition of the residue for compliance with the MRL for animal commodities: Tissues: Sum of 1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one (IV-01) and 1,2,3,4-tetrahydro-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2,4-dione (IV-203) and their conjugates (expressed as pyrifluquinazon). Milk: 1,2,3,4-tetrahydro-3-[3-(1-oxy-pyridylmethylene)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one (IV-04) (expressed as pyrifluquinazon). Definition of the residue for dietary risk assessment for animal commodities: A conclusion could not be reached. The residue is not fat-soluble.						
Pyriofenone (310) ADI: 0–0.09 mg/kg bw ARfD: Unnecessary	MF 0100	Mammalian fats (except milk fats)	0.01(*)	-	0	
	ML 0106	Milks	0.01(*)	-	0	
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)	-	0(Muscle) 0(Fat)	
	MO 0105	Edible offal(mammalian)	0.01(*)	-	0	
	PE 0112	Eggs	0.01(*)	-	0	
	PF 0111	Poultry fats	0.01(*)	-	0	
	PM 0110	Poultry meat	0.01(*)	-	0(Muscle) 0(Fat)	
	PO 0111	Poultry, edible offal of	0.01(*)	-	0	
Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: Pyriofenone.						

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
Pyriproxyfen (200) ADI: 0–0.1 mg/kg bw ARfD: Unnecessary	FI 0345	Mango	0.02(*)		0.02	
Definition of the residue for compliance with the MRL and dietary risk assessment in plant and animal commodities: Pyriproxyfen. The residue is fat-soluble.						
Tolclofos-methyl (191)** ADI: 0–0.07 mg/kg bw ARfD: Unnecessary	VL 0482	Lettuce, head	W	2		
	VL 0483	Lettuce, leaf	W	2		
	VL 2050	Leafy greens (except spinach, purslane and chard)	0.7		0.36	
	VR 0589	Potato	0.3	0.2	0.060	
	MO 0105	Edible offal (mammalian)	0.01(*)		0.0055(Kidney) 0.0033(Liver)	
	PE 0112	Eggs	0.01(*)		0	
	MF 0100	Mammalian fats (except milk fats)	0.01(*)		0	
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)		0	
	ML 0106	Milks	0.01(*)		0	
	PF 0111	Poultry fats	0.01(*)		0	
	PM 0110	Poultry meat	0.01(*)		0	
	PO 0111	Poultry, edible offal of	0.01(*)		0	
	VR 0494	Radish	W	0.1		
Definition of the residue for compliance with the MRL for plant and animal commodities: Tolclofos-methyl. Definition of the residue for dietary risk assessment for plant commodities: Sum of tolclofos-methyl, 2,6-dichloro-4-methylphenol (ph-CH_3, incl. conjugates), O,O-dimethyl O-2,6-dichloro-4-(hydroxymethyl) phenylphosphorothioate (TM-CH_2OH, incl. conjugates), O-methyl O-hydrogen O-2,6-dichloro-4-(hydroxymethyl) phenylphosphorothioate (DM-TM-CH_2OH) and O-methyl O-hydrogen O-(2,6-dichloro-4-methylphenyl) phosphorothioate (DM-TM), expressed as tolclofos-methyl. Definition of the residue for dietary risk assessment for animal commodities: Sum of tolclofos-methyl and 3,5-dichloro-4-hydroxybenzoic acid (ph-COOH), expressed as tolclofos-methyl. The residue is fat-soluble.						
Tolfenpyrad (269) ADI: 0–0.006 mg/kg bw ARfD: 0.01 mg/kg bw	FC 0002	Lemons and limes, subgroup of	0.9		0.085	0.18
	FC 0003	Mandarins, subgroup of	0.9		0.085	0.18
	FC 0004	Oranges, sweet, sour, subgroup of	0.6		0.061	0.13
	FC 0005	Pummelo and grapefruits, subgroup of	0.6		0.042	0.099
	VA 2031	Bulb Onions, subgroup of	0.09		0.0125	0.057
	VO 2045	Tomatoes, subgroup of [g]	0.7[g]		0.13	0.5
	VO 0051	Peppers, subgroup of (except okra, martynia, and roselle)	0.5		0.11	0.32
	VO 2046	Eggplants, subgroup of [g]	0.7[g]		0.13	0.5
	AB 0001	Citrus pulp, dry	6		Median: 1.7	--
	OR 0001	Citrus oil, edible	80		22	--
	HS 0444	Peppers chili, dried	5		1.1	3.2
	ML 0106	Milks	0.01(*)		0.0038	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	MF 0100	Mammalian fats except milk fats	0.01(*)		0.0022	0.0022
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)		0.0043	0.0043
	MO 0105	Edible offal (mammalian)	0.4		0.29	0.38
	PE 0112	Eggs	0.01(*)		0	0
	PO 0111	Poultry, edible offal of	0.01(*)		0	0
	PF 0111	Poultry fats	0.01(*)		0	0
	PM 0110	Poultry meat	0.01(*)		0	0
		Lemon + Mandarin Juice			0.058	--
		Lemon + Mandarin peel			1.3	2.7
		Lemon + Mandarin Marmalade/Jam			0.032	0.068
		Orange peel (fresh)			0.91	2.0
	JF 0004	Orange juice			0.042	--
		Orange marmalade/jam			0.023	0.050
		Grapefruit peel (fresh)			0.62	1.5
	JF 0203	Grapefruit juice			0.029	--
		Tomato puree			0.044	--
		Tomato paste			0.14	--
[g] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of tolfenpyrad for the consumption of these commodities may present a public health concern. Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: Tolfenpyrad. Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: Sum of tolfenpyrad, and free and conjugated PT-CA (4-[4-[(4-chloro-3-ethyl-1-methylpyrazol-5-yl)carbonylaminomethyl]phenoxy]benzoic acid_and OH-PT-CA (4-[4-[[4-chloro-3(1-hydroxyethyl) -1-methylpyrazol-5-yl]carbonylaminomethyl]phenoxy] benzoic acid) (released with alkaline hydrolysis) expressed as tolfenpyrad. The residue is not fat-soluble.						
Triflumuron (317)* ADI: 0–0.008 mg/kg bw ARfD: Unnecessary **4-trifluoromethoxyaniline (metabolite M07)** ADI: 0-0.02 mg/kg bw ARfD: 0.02 mg/kg bw						
Definition of the residue for compliance with the MRL for animal and plant commodities: Triflumuron. Definition of the residue for dietary risk assessment for animal and plant commodities: A conclusion could not be reached. The residue is fat-soluble.						
Valifenalate (318)* ADI: 0–0.2 mg/kg bw ARfD: Unnecessary	VO 0440	Eggplants	0.4		0.049	
	FB 0269	Grapes	0.3		0.079	
	VA 0385	Onion, bulb	0.5		0.0375	
	VA 0388	Shallot	0.5		0.0375	
	VO 0448	Tomato	0.4		0.049	
	MO 0105	Edible offal (mammalian)	0.01(*)		0	
	PE 0112	Eggs	0.01(*)		0	
	ML 0106	Milks	0.01(*)		0	
	MM 0095	Meat (from mammals other than marine mammals)	0.01(*)		0	

Pesticide (Codex reference number)	CCN	Commodity	Recommended maximum residue level (mg/kg)		STMR or STMR-P (mg/kg)	HR or HR-P (mg/kg)
			New	Previous		
	MF 0100	Mammalian fats (except milk fats)	0.01(*)		0	
	PO 0111	Poultry edible offal	0.01(*)		0	
	PF 0111	Poultry fat	0.01(*)		0	
	PM 0110	Poultry meat	0.01(*)		0	
	-	Grape, must	-	-	0.079	-
	JF 0269	Grape, juice	-	-	0.043	-
	-	Grape, wine	-	-	0.051	-
	-	Tomato, canned	-	-	0.005	
	VW 0448	Tomato, paste	-	-	0.040	-
	JF 0448	Tomato, juice	-	-	0.016	-
Definition of the residue for compliance with the MRL for plant and animal commodities: Valifenalate Definition of the residue for dietary risk assessment for plant commodities: Valifenalate and 3-(4-chlorophenyl)-3-[[N-(isopropoxycarbonyl)-L-valyl]amino]propionic acid (valifenalate-acid), free and conjugated, expressed as valifenalate. Definition of the residue for dietary risk assessment for animal commodities: Valifenalate and 3-(4-chlorophenyl)-3-[[N-(isopropoxycarbonyl)-L-valyl]amino]propionic acid (valifenalate-acid), expressed as valifenalate. The residue is not fat-soluble.						

Recommended MRLs, STMRs and HR values for Spices						
Active substance	CCN	Commodity name	Recommended maximum residue level, mg/kg		STMR or STMR- P, mg/kg	
			New	Previous		
Acetamiprid (246) ADI: 0–0.07 mg/kg bw ARfD: 0.1 mg/kg bw	HS 0775	Cardamom, pods and seeds	W	0.1		
	HS 0190	Spices, seeds, subgroup of	2	-	Median: 0.57[h]	
Carbendazim (072) ADI: 0–0.03 mg/kg bw ARfD: 0.1 mg/kg bw (for women of child-bearing age) 0.5 mg/kg bw (for the general population)	HS 0190	Spices, seeds, subgroup of	5		Median: 0.525[h]	
[h] based on monitoring data						