

codex alimentarius commission



FOOD AND AGRICULTURE
ORGANIZATION
OF THE UNITED NATIONS

WORLD
HEALTH
ORGANIZATION



JOINT OFFICE: Viale delle Terme di Caracalla 00100 ROME Tel: 39 06 57051 www.codexalimentarius.net Email: codex@fao.org Facsimile: 39 06 5705 4593

Agenda Item 8

CX/PR 02/10

JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON PESTICIDE RESIDUES

Thirty-fourth Session
The Hague, The Netherlands, 13-18 May 2002

ESTABLISHMENT OF CODEX PRIORITY LISTS OF PESTICIDES

(Prepared by Australia)

1. EVALUATION OF NEW COMPOUNDS

Four new compounds have been foreshadowed for review.

Germany has proposed the new fungicide, fenhexamid. Data will be provided to establish Codex MRLs for the following commodities: almonds, blackberries, cherries, cucumber, currants, eggplant, gooseberries, grapes, kiwi fruit, lettuce, onions, peaches/nectarines, plums, peas, bell peppers, raspberries, strawberries and tomatoes. Data will be available for submission to JMPR for toxicological review in 2004 and residues review in 2005.

The United States has proposed the new insecticide indoxacarb. Indoxacarb is considered a reduced risk pesticide. Data will be provided by the manufacturer in time for a review in 2005 to establish Codex MRLs for indoxacarb for the following commodities: brassicas, eggplant, grapes (wine), grapes (table), lettuce, peppers, pome fruit and tomatoes.

Israel has proposed the new insecticide, novaluron. Novaluron is a novel benzoylphenyl urea insecticide and is considered a safer chemical capable of replacing other insecticides. Data will be provided to establish Codex MRLs for the following commodities: apples, citrus, cotton, cotton oil, cottonseed and pears. Data will be available for review in 2002.

Germany has proposed the new fungicide, pyraclostrobin. Data will be provided to establish Codex MRLs for almonds, blackberries, cherries, cucumbers, currants, eggplants, gooseberries, grapes, kiwifruit, lettuce, onions, peaches/nectarines, peas, peppers, plums, raspberries, strawberries and tomatoes. Data will be submitted in 2004 for review by WHO and in 2005 for review by FAO.

2. JMPR REVIEW SCHEDULE

Appendix 1 contains the tentative schedule for the 2002 JMPR and tentative schedules for 2003 through 2010 including the chemicals nominated for periodic re-evaluation at CCPR 33 and supported by the data submitters. Listed below are changes made to the **2002 JMPR schedule**.

Owing to difficulties experienced at the 2001 JMPR, the toxicological periodic re-evaluation of lindane (048) and the residues periodic re-evaluations of carbaryl (008), diflubenzuron (135) and propagite (113) have been tentatively scheduled in 2002.

Dithiocarbamates (105): The residues evaluation of the dithiocarbamates has been postponed until 2004 at the request of the data submitter .

Pirimiphos-methyl (086): The data submitter has requested that pirimiphos-methyl be postponed to 2003 for residues periodic re-evaluation.

Listed below are other changes made to the tentative schedule taking into consideration the prioritisation criteria agreed at CCPR 33 and the limited resources of JMPR.

THE 2003 TENTATIVE SCHEDULE

Bendiocarb (137): The data submitter has indicated that bendiocarb will not be supported.

The new chemicals cyprodinil, dimethenamid-P, famoxadone and methoxyfenozide are all chemicals that are capable of replacing other chemicals with potential public health concerns and have been tentatively scheduled for 2003 as proposed in ALINORM 01/24A APPENDIX IX. The data submitter for dimethenamid-P has requested that the new nomination, pyraclostrobin, a reduced risk chemical, be substituted for dimethenamid-P in the tentative schedule for 2003 and that dimethenamid-P be rescheduled for 2004 or later.

The following chemicals have been prioritised for toxicological periodic re-evaluation in the tentative schedule for 2003 from the 2003 list of chemicals proposed in ALINORM 01/24A APPENDIX IX: carbosulfan(145), cyhexatin (067)/ azocyclotin(129), paraquat (057) and terbufos (167).

Carbosulfan has been included as it should have been evaluated with carbofuran several years ago but appears to have been missed. The main prioritisation criteria used for selecting cyhexatin/azocyclotin, paraquat and terbufos have been the potential public health concern and the date of the last major review.

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2003 from the 2003 list of chemicals proposed in ALINORM 01/24A APPENDIX IX: acephate(095), fenitrothion (037), lindane (048), methamidaphos (100) and pirimiphos-methyl (086).

The main prioritisation criteria used were the potential public health concern with pirimiphos-methyl being held over from 2002.

The evaluations remain as proposed in ALINORM 01/24A APPENDIX IX plus dodine (084) tentatively scheduled following a delay in residues periodic re-evaluation owing to change of ownership.

THE 2004 TENTATIVE SCHEDULE

Acibenzolar-S-methyl, a new chemical, is being withdrawn on the advice of the data submitter.

The other new chemicals, zeta-cypermethrin, fludioxinil and trifloxystrobin have been tentatively scheduled as proposed in ALINORM 01/24A APPENDIX IX.

Following consideration by the 48th session of the Codex Committee Executive (paragraphs 36 and 37 of ALINORM 01/4), gentamicin sulfate and oxytetracycline hydrochloride have also been added to the tentative schedule for 2004. JECFA evaluated both gentamicin and oxytetracycline in 1998 and it is considered that the toxicological evaluation should remain with JECFA.

As JECFA has evaluated cypermethrin and alpha-cypermethrin, it is considered appropriate for JECFA to also evaluate zeta-cypermethrin in 2004 for toxicology. If gentamicin, oxytetracycline and zeta-cypermethrin are removed from the 2004 tentative schedule for toxicological evaluation it would enable more toxicological periodic re-evaluations to be undertaken in 2004.

The following chemicals have been prioritised for toxicological periodic re-evaluation in the tentative schedule for 2004 from the remaining chemicals on the 2003 list of chemicals proposed in ALINORM

01/24A APPENDIX IX: glyphosate (158), phorate (112), pirimicarb (101), triadimefon (133), triadimenol (168).

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2004 from the remaining chemicals on the 2003 list of chemicals proposed in ALINORM 01/24A APPENDIX IX: ethoprophos (149), metalaxyl-M, methoprene (147), paraquat (057), prochloraz (142) and propineb.

The main prioritisation criteria used were the potential public health concern and the date of the last major review.

The methoprene data submitter advises that the only CXLs that will be supported are cattle milk, edible offal (mammalian) and meat as products are registered for mosquito control. All other CXLs will no longer be supported.

The dithiocarbamates have been moved from 2002 at the request of the data submitter and tentatively scheduled for evaluation in 2004. Guazatine (114), malathion (047) and 2-phenylphenol have been tentatively scheduled for evaluation as proposed in ALINORM 01/24A APPENDIX IX.

THE 2005 TENTATIVE SCHEDULE

The data submitter has advised that quinclorac will no longer be supported. All 3 new chemicals nominated for consideration for inclusion in the schedule at CCPR 34, namely: fenhexamid, indoxacarb and novaluron have been tentatively scheduled in 2005. Dimethenamid-P has been moved from the 2003 tentative schedule at the request of the data submitter to 2005.

The following chemicals have been prioritised for toxicological periodic re-evaluation in the tentative schedule for 2005 from the 2004 list of chemicals proposed in ALINORM 01/24A APPENDIX IX: benalaxyl (155), clofentezine (156), propamocarb (148) and propiconazole (160) have been tentatively scheduled for toxicological periodic re-evaluation in 2005.

The main prioritisation criteria used were the date of the last toxicological review and being held over from the previous year. The data submitter has requested that flusilazole be held over to 2006 for toxicological periodic re-evaluation.

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2005 from the chemicals on the 2004 list of chemicals proposed in ALINORM 01/24A APPENDIX IX : endosulfan (032), cyhexatin (067)/azocyclotin (129), phorate (112), terbufos (167).

The critical prioritisation criteria were the potential public health concern and the date of the last major review.

Ethoxyquin is tentatively scheduled for evaluation in 2005 as proposed in ALINORM 01/24A APPENDIX IX.

THE 2006 TENTATIVE SCHEDULE

The following chemicals have been prioritised for toxicological periodic re-evaluation in the tentative schedule for 2006 from the 2005 and 2006 lists of chemicals proposed in ALINORM 01/24A APPENDIX IX plus flusilazole: cyromazine (169), flusilazole (165), procymidone (136) and profenofos (171).

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2006 from the chemicals on the 2004 list of chemicals proposed in ALINORM 01/24A APPENDIX IX: cypermethrin (118), glyphosate (158), pirimicarb (101), triazophos (143), triadimefon (133) and triadimenol (168).

The main prioritisation criteria used were the potential public health concern, the date of the last major review and being held over from 2004.

THE 2007 TENTATIVE SCHEDULE

The following chemicals have been prioritised for toxicological periodic re-evaluation in the tentative schedule in 2007 from the list of chemicals proposed in ALINORM 01/24A APPENDIX IX ANNEX1 on the basis of public health concern: azinphos-methyl (002), cyfluthrin and beta-cyfluthrin (157), fentin (040) and vinclozolin (159).

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2007 from the remaining chemicals on the 2004 list of chemicals proposed in ALINORM 01/24A APPENDIX IX and those chemicals in the 2005 proposed list prioritised on the basis of the date of the last major review: clofentazine (156), permethrin (120), propamocarb (148), propiconazole (160) and triforine (116).

THE 2008 TENTATIVE SCHEDULE

The following chemicals have been added to the tentative schedule for 2008 for toxicological periodic re-evaluation being the remaining chemicals in the list proposed in ALINORM 01/24A APPENDIX IX ANNEX1: bioresmethrin (093), buprofezin (173), chlorpyrifos-methyl (090) and hexythiazox (176).

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule for 2008 from the remaining chemicals on the 2005, 2006 and 2007 lists of chemicals proposed in ALINORM 01/24A APPENDIX IX: benelaxyl (155), cyromazine (169), cyhalothrin (146) flusilazole (165), procymidone (136) and propanofos (171).

THE 2009 TENTATIVE SCHEDULE.

The following chemicals have been prioritised for residues periodic re-evaluation in the tentative schedule from the chemicals proposed in ALINORM 01/24A APPENDIX IX ANNEX 1 based on the criterion of potential public health concern: azinphos-methyl (002), cyfluthrin/beta cyfluthrin (157), fentin (040) and vinclozolin (159).

THE 2010 TENTATIVE SCHEDULE.

The following chemicals have added to the tentative schedule for 2010 for residues periodic re-evaluation from the remaining chemicals proposed in ALINORM 01/24A APPENDIX IX ANNEX1: bioresmethrin (093), buprofezin (173), chlorpyrifos-methyl (090) and hexythiazox (176).

6. CANDIDATE CHEMICALS FOR PERIODIC RE-EVALUATION – NOT YET SCHEDULED

After taking into account the chemicals tentatively scheduled for Periodic Re-evaluation until the year 2010 and new chemicals added this year, there are **9 chemicals** that meet the selection criterion of having last been reviewed toxicologically more than 10 years ago and/or not having had a significant review of maximum residue limits for 10 years (see Annex 1).

The next step is for the manufacturers to confirm by **1 November 2002** the availability of data to support a periodic re-evaluation of these compounds and therefore permit scheduling of the reviews.

7. CHEMICALS RECOMMENDED FOR DELETION

Advice has been received that the following compounds will no longer be supported: hexaconazole, monocrotophos, paclobutrazol and phosphamidon.

8. CHEMICALS PROPOSED FOR PRIORITY LISTING BUT FOR WHICH FURTHER CONSIDERATION IS REQUIRED BEFORE A DECISION CAN BE MADE

DDT (spices), lindane (spices), BHC (spices)

9. FUTURE EVALUATIONS AND RE-EVALUATIONS BY JMPR

To encourage member country participation in the process of nominating candidate chemicals for review, it is recommended that the agendas of the JMPR as finalized by the Joint Secretaries of the JMPR be placed on the FAO Home Page as requested by the CCPR at its 30th Session (ALINORM 99/24, para. 103):

<http://www.fao.org/waicent/FaoInfo/Agricult/AGP/AGPP/Pesticid>

<http://www.who.int/pcs/jmpr/jmpr.htm>

APPENDIX 1

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

The following are the tentative schedules to be evaluated by the FAO/WHO Joint Meeting on Pesticides Residues (JMPR) from 2002 to 2010

2002 JMPR

Toxicological evaluations	Residue evaluations
<i>New compounds</i>	<i>New compounds</i>
esfenvalerate (purified isomer of fenvalerate)	esfenvalerate (purified isomer of fenvalerate)
flutolanil	flutolanil
	imidacloprid
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
acephate (095)	carbaryl (008)
lindane (048)	deltamethrin (135)
metalaxyl-M (purified isomer of metalaxyl)	diflubenzuron (130)
methamidophos (100)	oxamyl (126)
oxamyl (126)	propagite (113)
tolyfluanid (162)	tolyfluanid (162)-
triazophos (143)	
<i>Evaluations</i>	<i>Evaluations</i>
carbofuran (096) –acute toxicity	carbofuran (096)
ethephon (106) –acute toxicity	cyfluthrin (157)
fenamiphos (085) –acute toxicity	myclobutanil (181)
folpet (041) - acute toxicity	phosmet (103)
oxydemeton methyl –acute toxicity	

2003 JMPR

Toxicological evaluations	Residue evaluations
<i>New compounds</i>	<i>New compounds</i>
cyprodinil	cyprodinil
famoxadone	famoxadone
methoxyfenozide	methoxyfenozide
pyraclostrobin	pyraclostrobin
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
carbosulfan (145)	acephate (095)
cyhexatin (067)/azocyclotin (129)	fenitrothion (037)
paraquat (057)	lindane (048)
terbufos (167)	methamidophos (100)
	pirimiphos-methyl (086)
<i>Evaluations</i>	<i>Evaluations</i>
dimethoate (027) - acute toxicity	carbendazim (072)
malathion (049) - acute toxicity	dimethoate (027)
	dicloran (083)
	dodine (084)
	iprodione (111)

2004 JMPR

Toxicological evaluations	Residue evaluations
<i>New compounds</i>	<i>New compounds</i>
zeta-cypermethrin	zeta-cypermethrin
fludioxinil	fludioxinil
gentamicin sulfate	gentamicin sulfate
oxytetracycline hydrochloride	oxytetracycline hydrochloride
trifloxystrobin	trifloxystrobin
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
glyphosate (158)	ethoprophos (149)
phorate (112)	methoprene (147)
pirimicarb (101)	metalaxyl-M
triadimefon (133) {should be evaluated	paraquat (057)
triadimenol (168) {together	prochloraz (142)
	propineb
<i>Evaluations</i>	<i>Evaluations</i>
guazatine (114)	dithiocarbamates (105)
	guazatine (114)
	malathion (047)
	2-phenylphenol (056)

2005 JMPR

Toxicological evaluations	Residue evaluations
<i>New compounds</i>	<i>New compounds</i>
dimethenamid-P	dimethenamid-P
fenhexamid	fenhexamid
indoxacarb	indoxacarb
novaluron	novaluron
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
benalaxyl (155)	endosulfan (032)
clofentezine (156)	cyhexatin (067)/ azocyclotin (129)
propamocarb (148)	phorate (112)
propiconazole (160)	terbufos (167)
<i>Evaluations</i>	<i>Evaluations</i>
ethoxyquin (035)	ethoxyquin (035)

2006 JMPR

Toxicological evaluations	Residue evaluations
<i>New Compounds</i>	<i>New Compounds</i>
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
cyromazine (169)	cypermethrin (118) JECFA/JMPR

	coordination
flusilazole (165)	glyphosate (158)
procymidone (136)	pirimicarb (101)
profenofos (171)	triazophos (143)
	triadimefon (133) {should be evaluated
	triadimenol (168) {together
Evaluations	Evaluations

2007 JMPR

Toxicological evaluations	Residue evaluations
<i>New Compounds</i>	<i>New Compounds</i>
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
azinphos-methyl (002)	clofentezine (156)
cyfluthrin/beta cyfluthrin (157)	permethrin (120)
fentin (040)	propamocarb (148)
vinclozolin (159)	propiconazole (160)
	triforine (116)
Evaluations	Evaluations

2008 JMPR

Toxicological evaluations	Residue evaluations
<i>New Compounds</i>	<i>New Compounds</i>
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
bioresmethrin (93)	benelaxyl (155)
buprofezin (173)	cyromazine (169)
chlorpyrifos-methyl (090)	cyhalothrin (146)
hexythiazox (176)	flusilazole (165)
	procymidone (136)
	profenofos (171)
Evaluations	Evaluations

2009 JMPR

Toxicological evaluations	Residue evaluations
<i>New Compounds</i>	<i>New Compounds</i>
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
	azinphos-methyl (002)
	cyfluthrin/beta cyfluthrin (157)
	fentin (040)
	vinclozolin (159)

<i>Evaluations</i>	<i>Evaluations</i>

2010 JMPR

Toxicological evaluations	Residue evaluations
<i>New Compounds</i>	<i>New Compounds</i>
<i>Periodic re-evaluations</i>	<i>Periodic re-evaluations</i>
	bioresmethrin (93)
	buprofezin (173)
	chlorpyrifos-methyl (090)
	hexythiazox (176)
<i>Evaluations</i>	<i>Evaluations</i>

ANNEX I

**CANDIDATE CHEMICALS FOR PERIODIC RE-EVALUATION –NOT YET
SCHEDULED**

(confirmation of support required by November 2002)

amitraz (122) residues only	dithianon (180)
bifenthrin (178)	ethion (034)
cadusafos (174)	fenvalerate (119) #
chlorothalonil (081)	fenbutatin oxide (109)
cycloxydim (179)	penconazole (182)

Advice has been received that fenvalerate will be supported by the data submitter during the review process for esfenvalerate and possibly post-review.

ANNEX II

**CHEMICALS PROPOSED FOR PRIORITY LISTING BUT FOR WHICH FURTHER
CONSIDERATION IS REQUIRED BEFORE A DECISION CAN BE MADE.**

DDT (spices), lindane (spices), BHC (spices).