

I P C S

International Programme on Chemical Safety

SUMMARY OF TOXICOLOGICAL EVALUATIONS
PERFORMED BY THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES (JMPR)

1991



United Nations Environment Programme
Programme des Nations Unies pour l'Environnement



International Labour Organization
Bureau international du Travail



World Health Organization
Organisation mondiale de la Santé



UNITED NATIONS ENVIRONMENT PROGRAMME
PROGRAMME DES NATIONS UNIES POUR L'ENVIRONNEMENT



INTERNATIONAL LABOUR ORGANIZATION
BUREAU INTERNATIONAL DU TRAVAIL



WORLD HEALTH ORGANIZATION
ORGANISATION MONDIALE DE LA SANTÉ

WHO/PCS/92.9
ENGLISH ONLY

**SUMMARY OF TOXICOLOGICAL EVALUATIONS
PERFORMED BY THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMFR] THROUGH 1991**

SECOND EDITION

This index summarizes the toxicological assessments of pesticides by the WHO Expert Groups on Pesticide Residues that meet regularly with the FAO Panel of Experts on Pesticide Residues in Food and the Environment in what is known as the Joint FAO/WHO Meeting on Pesticide Residues [JMFR]. It does not include the maximum residue levels (MRLs) that have been estimated by the FAO Panel of Experts.

The first table summarizes the current acceptable daily intakes (ADIs) that have been established by the WHO Expert Groups. It also gives the chemical class and primary use(s) of each pesticide, and indicates other WHO publications on these pesticides.

The second table summarizes in more detail the history of the evaluations. It should be noted that the last entry under each pesticide is the one that is currently applicable.

Annex 1 defines the codes used in the first table and Annex 2 lists the reports and other documents resulting from the Joint Meetings that have been held to date. Many of the older publications that are listed are out of print. Most of the recent reports and evaluations have been published by FAO and may be obtained from Distribution and Sales Section, Food and Agriculture Organization of the United Nations, Via delle Terme di Caracalla, 00100 Rome, Italy. WHO publications may be obtained from Distribution and Sales, World Health Organization, 1211 Geneva 27, Switzerland.

We gratefully acknowledge the assistance provided by Dr J. Sekizawa and his coworker at the National Institute of Hygienic Sciences, Tokyo, Japan (a Participating Institution of the International Programme on Chemical Safety (IPCS)), who prepared the original data base upon which this summary is based.

Additional copies of this summary are available from the International Programme on Chemical Safety, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland. Please direct your requests to the attention of the WHO Joint Secretary of the Joint FAO/WHO Meeting on Pesticide Residues.

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CURRENT STATUS (1991) OF
TOXICOLOGICAL EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

PESTICIDE	CHEM- ICAL CLASS	USE	LATEST YEAR OF EVALUATION BY JMPR	ADI [mg/kg bw]	COMMENTS	REFERENCE [See Annex 2]	IPCS EHC DOCUMENT	IARC MONOGRAPH	WHO/FAO Data Sheets
		[See Annex 1]				[See Annex 2]		Annex	1]
ACEPHATE	OP	IN	1990	0.03		59,61			
ACRYLONITRILE	OT	FM	1965	NO ADI		3,5	28	19	
ALDICARB	CB	IN AC NE	1982	0.005		38,39	121	5	53
ALDRIN	OC	IN TE	1977	0.0001	COMBINED TOTAL ALDRIN + DIELDRIN SEE ALSO DIELDRIN	28,29	91		41
ALLETHRIN	PY	IN	1965	NO ADI		3,4	87		
ALUMINIUM PHOSPHIDE					SEE HYDROGEN PHOSPHIDE				
AMINOCARB	CB	IN	1979	NO ADI		32,33			
AMITRAZ	OT	IN AC	1990	0.003		59,61		7 41	79
AMTROLE	HC	HB	1977	0.00003	CONDITIONAL	28,29			
AMLAZINE	OC HC	FU	1989	0.1		56,58	18*	1* 2* 23*	72
ARSENITE, CALCIUM & LEAD	AS	IN HB NO	1968	NO ADI		10,11			
AZINPHOS-ETHYL	OP HC	IN AC	1973	NO ADI		20,21			59
AZINPHOS-METHYL	OP HC	IN AC	1991	0.005		62,64			
BOCOCYCLOTIN	SW HC	AC	1991	0.001		62,64			
BENALAXYL	OT	FU	1987	0.05		59,52			
BENDIOCARB	CB HC	IN	1984	0.004		42,43			52
BENOHYL	CB HC	FU	1983	0.02		40,41			87
BENTAZONE	HC	HB	1991	0.1		62,64			
BENZENE HEXACHLORIDE					SEE LINDANE OR BHC / HCH TECHNICAL GRADES MIXTURES OF ISOMERS			5* 20* 42*	
BHC / HCH	OC	IN	1973	NO ADI		20,21	123*		
BIMAPHRYL	DN	FU AC	1985	NO ADI		44,46			34
BIORESMETHRIN	PY	IN	1991	0.03		62,64			
BITERTANOL	HC	FU	1988	0.01		53			
BROWIDE ION	BR	FM	1988	1.0	SEE ALSO BROMOMETHANE & DIBROMOETHANE	53,55			

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BROMETHANE	BR	FM IN TE ME	NO 1966	1.0	AS BROWLIDE ICH SEE ALSO BROWLIDE ICH	6,7		41* 45*	5*
BROMOPHOS	OP	IN	1977	0.04		28,29			76
BROMOPHOS-ETHYL	OP	IN AC	1975	0.003		24,25			
BROMOPROPYLATE	OT	AC	1973	0.008		20,21			
BUPROFEZIN	HC	IG IN	1991	0.01		62,64			
BUYOCRESOXIN	CB	IN	1985	NO ADI		44			
BUTYLAMINE, SEC-	OT	FU	1984	TEMP ADI WITHDRAWN		42			
CADUSAFOS	OP	IN ME	1991	0.0003		62,64			
CALCIUM ARSENITE	CC	IN RO AC	1973	NO ADI	SEE ARSENITE, CALCIUM & LEAD	20,21	45	20*	20
CAMPHECHLOR	CC HC	FU	1985	TEMP ADI WITHDRAWN		44			
CAPTAN	CC HC	FU	1990	0.1		59,61		30	9
CARBARYL	CB	IN PG	1973	0.01		20,21		12	3
CARBENDAZIM	CB HC	FU	1985	0.01		44,46			89
CARBOFURAN	CB HC	IN AC ME	1982	0.01		38			56
CARBON DISULFIDE	OT	FM IN	1965	NO ADI		3,5	10		
CARBON TETRACHLORIDE	CC	FM	1965	NO ADI		3,5		1 20	
CARBOPHENOTHION	OP	IN AC	1980	0.0005		34,35			
CAROSULFAN	CB HC	IN ME	1986	0.01		47,49			
CARTRAP	TC	IN	1978	0.1		30,31			
CHLORMETHIONIN	HC	AC FU	1987	0.006		50,52			
CHLORPENSIDE	CC	AC	1965	0.01		4			
CHLORPANE	CC	IN TE	1986	0.0005		47,49			36
CHLORDIMIFORM	OT	IN AC	1987	TEMP ADI WITHDRAWN		50,52		20 42	
CHLORFENOS	CC	AC	1965	0.01		4		30	
CHLORFENITHIOPHOS	OP	IN AC	1971	0.002		16,17			
CHLORNEQUAT	OT	PG	1972	0.05		18,19			

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PESTICIDE	CHEM- ICAL CLASS	USE	LATEST YEAR OF EVALUATION BY JMPR	ADI [mg/kg bw]	COMMENTS	REFERENCE [See Annex 2]	IPCS EHC DOCUMENT	IARC MONOGRAPH	WHO/FAO Data Sheets 1]
	[See Annex 1]							[See Annex	1]
CHLOROBENZILATE	OC	AC	1980	0.02	SEE CHLORNEQUAT	34,35		5 30	
CHLOROCHOLINE CHLORIDE	OC	FH FU ME IN RO	1965	NO ADI		3,5			
CHLOROPICRIN	OC	AC	1972	TEMP ADI WITHDRAWN		18			
CHLOROPROPYLATE	OC	FU	1990	0.03		59,61		30	
CHLOROTHALONIL	CB	HB PG	1965	NO ADI		3,4		12	
CHLOROPHAN	OP HC	IN	1982	0.01		38,39			18
CHLORPYRIFOS	OP HC	IN AC	1991	0.001		62,64			33
CHLORPYRIFOS-METHYL	OP HC	IN	1965	NO ADI		4			
CHLORTHION	OP HC	AC	1986	0.02		47,49			
CLOFENTHIZINE	OP HC	AC IN	1990	NO ADI		59,61			
COUNAPHOS	OP HC	IN MN	1968	0.1		10,11			
CRUCIFATE	OP HC	IN	1983	TEMP ADI WITHDRAWN		40			
CYANOFENPHOS	OP HC	IN	1987	0.02		50,52			
CYFLUTHRIN	OP HC	IN	1984	0.02		42,43	99		
CYHALOTHRIN	OP HC	AC	1991	0.001		62,64	15*		58
CYHEXATIN	OP HC	IN	1981	0.05		36,37	82		
CYPERMETHRIN	OP HC	IG	1990	0.02		59,61		15	37
CYROMAZINE	OP HC	HB	1975	0.3		24,25			
D, 2,4-	BM	PG	1991	0.5		62,64			
DAMINOZIDE	OC	IN	1984	0.02	DAMINOZIDE CONTAINING LESS THAN 30 MG 1,1-DIMETHYLDIHYDRAZINE (UDMH) / KG	42,43	9 83	5 42	21
DDT	OC	IN	1982	0.01	SEE DELTAMETHRIN	38,39	97		50
DECMETHRIN	OP HC	IN AC	1984	NO ADI		42,43			60
DELTAMETHRIN	OP HC	IN AC	1989	0.0003	GROUP ADI, ALONE OR IN COMBINATION	56,58			61
DEMETON	OP HC	IN AC							
DEMETON-S-METHYL & RELATED COMPOUNDS	OP HC	IN AC							

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	[See Annex 1]							[See Annex 1]	
DEMETON-S-METHYL SULFONE									
DEMETON-S-METHYL									
SULFOXIDE									
DIALIFOS	OP HC	IN AC	1982	ADI WITHDRAWN		38			
DIAZINON	OP HC	IN AC	1970	0.002		14,15			45
DIBROMETHANE, 1,2-	BR	FW IN NE	1966	1.0 AS BROMIDE ION	SEE ALSO BROMIDE ION	6,7		15*	
DICHLORFLUANID	OT	FU	1983	0.3		40,41			
DICHLOROTHANE, 1,2-	OC	FW IN NE	1965	NO ADI		3,5		20	
DICHLOROS	OP	IN AN	1977	0.004		28,29		20	2
DICLORAN	OC	FU	1977	0.03		28,29			
DICOPOL	OC	AC	1968	0.025		10,11		30	81
DIELDRIN	OC	IN TE	1977	0.0001	COMBINED TOTAL ALDRIN + DIELDRIN	28,29	91	5	17
SEE ALSO ALDRIN									
DIFLUBENZURON	UR	IG	1985	0.02		44,46			77
DIMETHIPIN	HC	BB PG	1988	0.02		53,55			
DIMETHORTE	OP	IN AC	1987	0.01		50,52			42
DIMETHURIN	PY	IN	1965	NO ADI		3,4	90		
DINOCAP	DM	AC FU	1989	0.001		56,58			
DIOXATHION	OP HC	IN AC	1968	0.0015		10,11			
DIPHENYL	OT	FU	1967	0.125		8,9			
DIPHENYLAMINE / DPA	OT	OT	1984	0.02	FOR 99.9% PURE MATERIAL	42,43			40
DIQUAT	HC	BB	1977	0.008	AS DIQUAT ION	28,29	39		68
DISULFOTON	OP	IN AC	1991	0.0003		62,64			
DMOC	DM	IN FU AC HB	1965	NO ADI		4			
DDCINE	OT	FU	1976	0.01		26,27			
DPA					SEE DIPHENYLAMINE				

SEE DEMETON-S-METHYL & RELATED
COMPOUNDS
SEE OXYDEMETON-METHYL

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EDIFENPHOS	OP	FU	1981	0.003		36,37			
ENDOSULFAN (ENDOSULFAN A, OC HC IN AC			1989	0.006		56,58	40		15
ENDOSULFAN B, ENDOSULFAN SULFATE)	OC	IN RO	1970	0.0002		14,15	130	5	1
ENDRIN	OP	PG	1978	NO ADI		30,31			
ETHEPHON	CB	IN	1982	0.1		38,39			
ETHIOFENCARB	OP	IN AC	1990	0.002		59,61			
ETHION	OP	IN NE	1987	0.0003		50,52			70
ETHOPROPHOS	HC	PG	1969	0.06		12,13			
ETHOXYQUIN								15	
ETHYLENE DIBROMIDE					SEE 1,2-DIBROMOETHANE				
ETHYLENE DICHLORIDE					SEE 1,2-DICHLOROETHANE				
ETHYLENE OXIDE	OT	FM IN	1968	NO ADI		10,11	55	11 36 42	
ETHYLENETHIOUREA / ETU	UR		1988	0.002	TEMPORARY	53,55	78	7	
ETRIFLORES	OP HC	IN AC	1982	0.003		38,39			
ETU					SEE ETHYLENETHIOUREA				
FENAMIPHOS	OP	NE IN	1987	0.0005		50,52			92
FENBUTATIN OXIDE	SN	AC	1977	0.03		28,29			
FENCHEORPHOS	OP	IN	1968	0.01		10,11			
FENTROTHION	OP	IN	1988	0.005		53,55	133		30
FENSULFOTHION	OP	IN NE	1982	0.0003		38,39			44
FENTHION	OP	IN	1980	0.001		34,35			23
FENTIN ACETATE	SN	FU AL NO	1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14,15	15*		22
FENTIN CHLORIDE	SN	FU AL	1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14,15	15*		22
FENTIN COMPOUNDS	SN	FU AL NO	1991	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	62,64	15*		22

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	[See Annex 1]						[See Annex 2]		[See Annex 1]
FENTIN HYDROXIDE	SN	FU	1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14, 15	15*		22
FENVALERATE	PY	IN AC	1986	0.02		47	95		90
FERRAN	TC	FU	1980	0.02	LISTED UNDER DITHIOCARBAMATES SUB OF FERBAN AND ZIRAN	34, 35	78	12 42	94
FLUCYTRINATE	PY	IN	1985	0.02		44, 46			
FLUSILAZOLE	HC	FU	1989	0.001		56, 58			
FOLPET	OC HC	FU	1990	0.01	TEMPORARY	59, 61			
FORMETHION	CP	IN AC	1973	0.02		20, 21			
GAMMA-BHC / GAMMA-HCH / GAMMA-HEXACHLOROCYCLO- HEXANE	CP	EB	1991	0.02	SEE LINDANE	62, 64			91
GLUFOSINATE-AMMONIUM	CP	EB	1986	0.3		47, 49			
GLYPHOSATE	CP	EB	1978	0.03		30, 31			
GURZATINE	OT	FU RE			SEE HEXACHLOROBENZENE SEE BHC				
HCB									
HCH									
HEPTACHLOR / HEPTACHLOR EPOXIDE	OC	IN TE	1991	0.0001		62, 64	38	5 20	19
HEXACHLOROBENZENE / HCB	OC	FU	1978	COND ADI WITHDRAWN		30, 31	123 124*	20 5 20 42	26
HEXACHLOROCYCLOHEXANE	HC	FU	1990	0.005	SEE LINDANE OR BHC / HCH	59, 61			
HEXACHLORAZOLE	HC	AC	1991	0.03		62, 64			
HEXATHIAZOX	OT	FM IN RO	1965	0.05		3, 5			
HYDROGEN CYANIDE	OT	FM IN RO	1966	ADI NOT NECESSARY	ON BASIS OF NO RESIDUE IN FOOD	6, 7	73*		46*
HYDROGEN PHOSPHIDE	HC	FU	1991	0.03		62, 64			
IMAZALIL	HC	FU	1977	0.3		28, 29			
IPRODIONE	HC	FU							

19/12/91

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	[See Annex 1]						[See Annex 2]		1]
MONOCROTOPHOS	OP	IN AC	1991	0.00085		62,64			94
MABAM (CONVERTED INTO ZINC WHEN USED WITH ZINC SULFATE)	TC FU AL		1977	TEMP ADI WITHDRAWN	LISTED UNDER DITHIOCARBAMATES	28,29	78		
NITROFEN	OC	HB	1983	NO ADI		40,41		30	84
CASHTHATE	OP	IN AC	1985	0.0003	SEE PHENYLPHENOL, 2- AND ITS SODIUM SALT	44,46			
OPP / SOPP									
ORGANOMERCURY COMPOUNDS	HG	FU	1967	NO ADI		8,9	1* 86*		66*
OXAMYL	CB MH	IN AC HE	1985	0.03		44,46			54
OXYDEMNON-METHYL / DEMNON-S-METHYL SULFOXIDE	OP	IN AC	1989		EVALUATED UNDER DEMNON-S-METHYL & RELATED COMPOUNDS	56,58			
OXYTHIOQUINOX					SEE CHINOMETHIONAT				
PACLOBUTRAZOL	HC	PG	1988	0.1		53,55			
PARAQUAT	HC	HB	1986	0.004	AS PARAQUAT ION	47,49	39		4
PARATHION	OP	IN AC	1967	0.005		8,9		30	6
PARATHION-METHYL					SEE METHYL PARATHION				7
PERMETHRIN	PY	IN	1987	0.05	FOR THE NOMINAL 40% CIS-, 60% TRANS- AND 25% CIS-, 75% TRANS- MATERIALS	50,52	94		51
PHENOTHRIN	PY	IN	1988	0.07	20:80 CIS-TRANS RATIO	53,55	96		85
PHENTHIOATE	OP	IN AC	1984	0.003	ADI APPLIES TO "d-PHENOTHRIN"	42,43			48
PHENYLMERCURY ACETATE					SEE ORGANOMERCURY COMPOUNDS				
PHENYLPHENOL, 2- AND ITS SODIUM SALT	OT	FU	1990	0.02		59,61		30	

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PHOSPHATE	OP	IN AC HB		1985	0.0002		44,46			75
PHOSALONE	OP HC	IN AC		1972	0.006		18,19			
PHOSMET	OP HC	IN AC		1979	0.02		32,33			
PHOSPHAMIDON	OP	IN AC		1986	0.0005		47,49			74
PHOSPHINE						SEE HYDROGEN PHOSPHIDE		73		46
PHOXIN	OP	IN		1984	0.001		42,43			31
PIPERONYL BUTOXIDE	HC	SY		1972	0.03		18,19		30	
PIRINICARB	CB HC	IN		1982	0.02		38,39			
PIRIDIPICUS-METHYL	OP HC	IN AC		1976	0.01		26,27			49
PROCHLORAZ	OC HC	FU		1983	0.01		40,41			
PROCYTHIONE	OC HC	FU		1989	0.1		56,58			
PROFENOFOS	OP	IN AC		1990	0.01		59,61			
PROPANOCARB	CB	FU		1986	0.1		47,49			
PROPARGITE	PO	AC		1982	0.15		38,39			
PROPHAM	CB	HB PG		1965	NO ADI		3,4		12	
PROPTICOMAZOLE	HC	FU		1987	0.04		50,52			
PROPINES	TC	FU AC		1985	TEMP ADI WITHDRAWN		44,46	78		94
PROPOKUR	CB	IN		1989	0.02		56,58			25
PYRAZOPHOS	OP HC	FU		1985	NO ADI		44,46			
PYRETHRINS	PY	IN AC		1972	0.04		18,19			11
QUINOZENE	OC	FU		1977	0.007		28,29	41		5
T, 2,4,5-	PO	HB		1981	0.03	CONTAINING NOT MORE THAN 0.01 MG TETRACHLORODIBENZODIOXIN (TCDD) / KG BODY WEIGHT	36,37			15
TECHAZEBATE	OC	FU PG		1983	0.01		40	42		
TERBUFOS	OP	IN HB		1989	0.0002		56,61			
THIABENZAZOLE	HC	FU AN		1977	0.3		28,29			

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	[See Annex 1]		BY JMPR			[See Annex 2]	[See Annex 1]		
THIODICARB	CB	1H NO	1986	0.03		47,49			
THIONETON	OP	1H AC	1979	0.003		32,33			67
THIOPHANTHATE-METHYL	CB	FU	1977	0.08		28,29			
THIRAM	TC	FU PE	1985	TEMP ADI WITHDRAWN		44,46	78	12	71
TIN AND ORGANOTIN COMPOUNDS					SEE FENTIN COMPOUNDS		15		
TOLVIFLUMID	OT	FU AC	1988	0.1		53,55			
TOXAPHENE					SEE CAMPHECHLOR			20	
TRIAZINIFOS	PO HC	FU	1985	0.03		44,46			
TRIAZINOL	PO HC	FU	1989	0.05		56,58			
TRIAZOLYLALANINE	HC	ADI NOT NECESSARY	1989		METABOLITE OF TRIAZOLE PESTICIDES	56,58			
TRIAZOPHOS	OP HC	1H AC HE	1991	0.0002	TEMPORARY	62,64			
TRICHLORFOS	OP OC	1H	1978	0.01		30,31	132	30	27
TRICHLOROMATE	OP OC	1H	1971	NO ADI		16,17			
TRICYCLOHEXYLTIN HYDROXIDE					SEE CYMEXATIN				
TRIFORINE	OC HC	FU	1978	0.02		30,31			
TRIPHENYLEN COMPOUNDS					SEE FENTIN COMPOUNDS				
VANIDOTHION	OP	1H AC	1988	0.008		53,55			
VINCLOZOLIN	HC	FU	1988	0.07		53,55			
ZINB	TC	FU	1980	0.05	LISTED UNDER DITHIOCARBAMATES INDIVIDUALLY OR THE SUM OF MANCOZEB, MANEB AND ZINEB	34,35	78	12	94
ZIRAM	TC	FU PE	1980	0.02	LISTED UNDER DITHIOCARBAMATES SUM OF FERRAM AND ZIRAM	34,35	78	12	73

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
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PESTICIDE RESIDUES [JMPR]

YEAR OF EVALUATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** ACEPHATE			
1976	0.02		26,27
1982	0.003	TEMPORARY	38,39
1984	0.0005	TEMPORARY	42,43
1987	0.003		50,52
1988	0.03		53,55
1990	0.03		59,61
** ACRYLONITRILE			
1965	NO ADI		3,5
** ALDICARB			
1979	0.001		32,33
1982	0.005		38,39
** ALDRIN			
1963	NO ADI	SEE ALSO DIELDRIN	2
1965	NO ADI	SEE ALSO DIELDRIN	3,4
1966	0.0001	SUM OF ALDRIN & DIELDRIN	6,7
		SEE ALSO DIELDRIN	
1977	0.0001	COMBINED TOTAL ALDRIN + DIELDRIN	28,29
		SEE ALSO DIELDRIN	
** ALLETHRIN			
1965	NO ADI		3,4
** ALUMINIUM PHOSPHIDE			
		SEE HYDROGEN PHOSPHIDE	
** AMINOCARB			
1979	NO ADI		32,33
** AMITRAZ			
1980	0.0005	TEMPORARY	34,35
1984	0.003		42,43
1990	0.003		59,61
** AMITROLE			
1974	0.00003	CONDITIONAL	22,23
1977	0.00003	CONDITIONAL	28,29
** ANILAZINE			
1989	0.1		56,58
** ARSENATE, CALCIUM & LEAD			
1963	NO ADI		2

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1965	NO ADI		3,4
1968	NO ADI		10,11
** AZINPHOS-ETHYL			
1973	NO ADI		20,21
** AZINPHOS-METHYL			
1963	0.0025		2
1965	0.0025		4
1968	0.0025		10,11
1973	0.0025		20,21
1991	0.005		62,64
** AZOCYCLOTIN			
1981	0.003		36,37
1989	0.003		56,58
1991	0.001		62,64
** BENALAXYL			
1987	0.05		50,52
** BENDIOCARB			
1982	0.002	TEMPORARY	38,39
1984	0.004		42,43
** BENOMYL			
1975	NO ADI		24,25
1983	0.02		40,41
** BENTAZONE			
1991	0.1		62,64
** BENZENE HEXACHLORIDE			
		SEE LINDANE OR BHC / HCH	
** BHC / HCH			
1968	NO ADI	TECHNICAL GRADES MIXTURES OF ISOMERS	10,11
1973	NO ADI	TECHNICAL GRADES MIXTURES OF ISOMERS	20,21
** BINAPACRYL			
1969	0.0025		12,13
1982	ADI WITHDRAWN		38
1985	NO ADI		44,46

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** BIORESMETHRIN			
1976	NO ADI		26,27
1991	0.03		62,64
** BITERTANOL			
1983	0.005	TEMPORARY	40,41
1987	0.003		50,52
1988	0.01		53
** BROMIDE ION			
1971	1.0	ADI ESTABLISHED IN 1966 SEE ALSO BROMOMETHANE & DIBROMOETHANE	16,17
1988	1.0	SEE ALSO BROMOMETHANE & DIBROMOETHANE	53,55
** BROMOMETHANE			
1965	NO ADI	SEE ALSO BROMIDE ION	3,5
1966	1.0 AS BROMIDE ION	SEE ALSO BROMIDE ION	6,7
** BROMOPHOS			
1972	0.006	TEMPORARY	18,19
1977	0.04		28,29
** BROMOPHOS-ETHYL			
1972	0.003	TEMPORARY	18,19
1975	0.003		24,25
** BROMOPROPYLATE			
1973	0.008		20,21
** BUPROFEZIN			
1991	0.01		62,64
** BUTOCARBOXIM			
1984	NO ADI		42
1985	NO ADI		44
** BUTYLAMINE, SEC-			
1975	0.2	TEMPORARY	24,25
1978	0.1	TEMPORARY	30,31
1981	0.1	TEMPORARY	36,37
1984	TEMP ADI WITHDRAWN		42
** CADUSAFOS			
1991	0.0003		62,64

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** CALCIUM ARSENATE			
SEE ARSENATE, CALCIUM & LEAD			
** CAMPHECHLOR			
1968	NO ADI		10,11
1973	NO ADI		20,21
** CAPTAFOL			
1969	0.05	TEMPORARY	12,13
1973	0.05	TEMPORARY	20,21
1977	0.1		28,29
1982	0.01	TEMPORARY	38
1985	TEMP ADI	WITHDRAWN	44
** CAPTAN			
1963	0.1		2
1965	0.1		3,4
1969	0.125	TEMPORARY	12,13
1973	0.1		20,21
1977	0.1		28,29
1978	0.1		30,31
1982	0.01	TEMPORARY	38,39
1984	0.1		42,43
1990	0.1		59,61
** CARBARYL			
1963	0.02		2
1965	0.02		3,4
1966	0.01		6,7
1967	0.02		8,9
1969	0.01	TEMPORARY	12,13
1973	0.01		20,21
** CARBENDAZIM			
1973	NO ADI		20,21
1977	NO ADI		28,29
1983	0.01		40,41
1985	0.01		44,46
** CARBOFURAN			
1976	0.003	TEMPORARY	26,27
1979	0.003	TEMPORARY	32,33
1980	0.01		34,35
1982	0.01		38

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** CARBON DISULFIDE			
1965	NO ADI		3,5
** CARBON TETRACHLORIDE			
1965	NO ADI		3,5
** CARBOPHENOTHION			
1972	0.005	TEMPORARY	18,19
1976	TEMP ADI	WITHDRAWN	26,27
1977	0.0002	TEMPORARY	28,29
1979	0.0005		32,33
1980	0.0005		34,35
** CARBOSULFAN			
1984	0.005	TEMPORARY	42,43
1986	0.01		47,49
** CARTAP			
1976	0.05	TEMPORARY	26,27
1978	0.1		30,31
** CHINOMETHIONAT			
1968	NO ADI		10,11
1974	0.003	TEMPORARY	22,23
1977	0.003	TEMPORARY	28,29
1981	0.003	TEMPORARY	36,37
1984	TEMP ADI	WITHDRAWN	42,43
1987	0.006		50,52
** CHLORBENSIDE			
1963	0.01		2
1965	0.01		4
** CHLORDANE			
1963	NO ADI		2
1965	NO ADI		3,4
1967	0.001		8,9
1970	0.001		14,15
1977	0.001		28,29
1978	0.001		30
1982	0.001	TEMPORARY	38,39
1984	0.001	TEMPORARY	42
1986	0.0005		47,49
** CHLORDIMEFORM			
1971	0.01	TEMPORARY	16,17

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1975	0.01	TEMPORARY	24,25
1978	0.001	TEMPORARY	30,31
1979	0.0001	TEMPORARY	32,33
1980	0.0001	TEMPORARY	34,35
1985	0.0001	TEMPORARY	44,46
1987	TEMP ADI	WITHDRAWN	50,52
** CHLORFENSON			
1963	0.01		2
1965	0.01		4
** CHLORFENVINPHOS			
1971	0.002		16,17
** CHLORMEQUAT			
1970	NO ADI		14,15
1972	0.05		18,19
** CHLOROBENZILATE			
1963	NO ADI		2
1965	NO ADI		4
1968	0.02		10,11
1980	0.02		34,35
** CHLOROCHOLINE CHLORIDE			
		SEE CHLORMEQUAT	
** CHLOROPICRIN			
1965	NO ADI		3,5
** CHLOROPROPYLATE			
1968	0.01	TEMPORARY	10,11
1972	TEMP ADI	WITHDRAWN	18
** CHLOROTHALONIL			
1974	0.03	TEMPORARY	22,23
1977	0.03	TEMPORARY	28,29
1979	0.03	TEMPORARY	32,33
1981	0.005	TEMPORARY	36,37
1983	0.005	TEMPORARY	40,41
1985	0.0005	TEMPORARY	44,46
1987	0.003	TEMPORARY	50,52
1990	0.03		59,61
** CHLORPROPHAM			
1963	NO ADI		2

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1965	NO ADI		3,4
** CHLORPYRIFOS			
1972	0.0015		18,19
1977	0.001		28,29
1982	0.01		38,39
** CHLORPYRIFOS-METHYL			
1975	0.01		24,25
1991	0.001		62,64
** CHLORTHION			
1963	NO ADI		2
1965	NO ADI		4
** CLOFENTEZINE			
1986	0.02		47,49
** COUMAPHOS			
1968	0.0005	TEMPORARY	10,11
1972	0.0005	TEMPORARY	18,19
1975	0.0005	TEMPORARY	24
1978	0.0005	TEMPORARY	30
1980	TEMP ADI	WITHDRAWN	34,35
1987	NO ADI		50
1990	NO ADI		59,61
** CRUFOMATE			
1968	0.1		10,11
** CYANOFENPHOS			
1975	0.005	TEMPORARY	24,25
1980	0.001	TEMPORARY	34,35
1983	TEMP ADI	WITHDRAWN	40
** CYFLUTHRIN			
1987	0.02		50,52
** CYHALOTHRIN			
1984	0.02		42,43
** CYHEXATIN			
1970	0.0075	TEMPORARY	EVALUATED UNDER TRICYCLOHEXYLTIN HYDROXIDE 14,15
1973	0.007	TEMPORARY	EVALUATED UNDER TRICYCLOHEXYLTIN HYDROXIDE 20,21

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALUATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1977	0.007	TEMPORARY	28
1978	0.008	TEMPORARY	30,31
1980	0.008	TEMPORARY	34,35
1981	0.008		36,37
1989	0.008		56,58
1991	0.001		62,64
** CYPERMETHRIN			
1979	0.006	TEMPORARY	32,33
1981	0.05		36,37
** CYROMAZINE			
1990	0.02		59,61
** D, 2,4-			
1970	NO ADI		14,15
1971	0.3		16,17
1974	0.3		22,23
1975	0.3		24,25
** DAMINOZIDE			
1977	NO ADI		28,29
1983	NO ADI		40,41
1989	0.5	DAMINOZIDE CONTAINING LESS THAN 30 MG 1,1-DIMETHYLHYDRAZINE (UDMH) / KG	56,58
1991	0.5	DAMINOZIDE CONTAINING LESS THAN 30 MG UDMH / KG	62,64
** DDT			
1963	0.005		2
1965	0.01		3,4
1966	0.01		6,7
1967	0.01	ANY COMBINATION OF DDT, DDD & DDE	8,9
1969	0.005	CONDITIONAL	12,13
1971	0.005	CONDITIONAL	16
1974	0.005	CONDITIONAL	22
1977	0.005	CONDITIONAL	28
1979	0.005	CONDITIONAL	32,33
1983	0.005	CONDITIONAL	40
1984	0.02		42,43
** DECAMETHRIN			
		SEE DELTAMETHRIN	

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** DELTAMETHRIN			
1980	NO ADI		34,35
1981	NO ADI		36,37
1982	0.01		38,39
** DEMETON			
1963	0.0025		2
1965	0.0025		4
1982	ADI WITHDRAWN		38
1984	NO ADI		42,43
** DEMETON-S-METHYL & RELATED COMPOUNDS			
1973	0.005	TOTAL DEMETON-S-METHYL & RELATED COMPOUNDS SHOULD NOT EXCEED THIS FIGURE	20,21
1982	ADI WITHDRAWN		38
1984	NO ADI	EVALUATED UNDER OXYDEMETON-METHYL / DEMETON-S-METHYL SULFOXIDE	42,43
1989	0.0003	GROUP ADI, ALONE OR IN COMBINATION	56,58
** DEMETON-S-METHYL SULFONE			
		SEE DEMETON-S-METHYL & RELATED COMPOUNDS	
** DEMETON-S-METHYL SULFOXIDE			
		SEE OXYDEMETON-METHYL	
** DIALIFOS			
1976	0.003		26,27
1982	ADI WITHDRAWN		38
** DIAZINON			
1963	NO ADI		2
1965	0.0002		3,4
1966	0.002		6,7
1970	0.002		14,15
** DIBROMOETHANE, 1,2-			
1965	NO ADI	SEE ALSO BROMIDE ION	3,5
1966	1.0 AS BROMIDE ION	SEE ALSO BROMIDE ION	6,7
** DICHLOFLUANID			
1969	NO ADI		12,13
1974	0.3	TEMPORARY	22,23
1977	0.3	TEMPORARY	28,29

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1979	0.3	TEMPORARY	32,33
1983	0.3		40,41
** DICHLOROETHANE, 1,2-			
1965	NO ADI		3,5
** DICHLORVOS			
1965	NO ADI		3,4
1966	0.004		6,7
1967	0.004		8,9
1970	0.004		14,15
1977	0.004		28,29
** DICLORAN			
1974	0.03	TEMPORARY	22,23
1977	0.03		28,29
** DICOFOL			
1968	0.025		10,11
** DIELDRIN			
1963	NO ADI	SEE ALSO ALDRIN	2
1965	NO ADI	SEE ALSO ALDRIN	3,4
1966	0.0001	SUM OF ALDRIN & DIELDRIN SEE ALSO ALDRIN	6,7
1967	0.0001	SUM OF ALDRIN & DIELDRIN SEE ALSO ALDRIN	8,9
1970	0.0001	SUM OF ALDRIN & DIELDRIN BY WEIGHT SEE ALSO ALDRIN	14,15
1977	0.0001	COMBINED TOTAL ALDRIN + DIELDRIN SEE ALSO ALDRIN	28,29
** DIFLUBENZURON			
1981	0.004	TEMPORARY	36,37
1984	0.004	TEMPORARY	42,43
1985	0.02		44,46
** DIMETHIPIN			
1985	0.003	TEMPORARY	44,46
1987	0.003	TEMPORARY	50
1988	0.02		53,55
** DIMETHOATE			
1963	0.004		2
1965	0.004		3,4

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
1967	0.02			8,9
1984	0.002	TEMPORARY		42,43
1987	0.01			50,52
** DIMETHRIN				
1965	NO ADI			3,4
** DINOCAP				
1969	NO ADI			12,13
1974	NO ADI			22,23
1989	0.001			56,58
** DIOXATHION				
1968	0.0015			10,11
** DIPHENYL				
1966	0.125			6,7
1967	0.125			8,9
** DIPHENYLAMINE / DPA				
1969	0.025			12,13
1976	0.02			26,27
1982	0.02	TEMPORARY		38,39
1984	0.02		FOR 99.9% PURE MATERIAL	42,43
** DIQUAT				
1970	0.002	TEMPORARY	AS DIQUAT ION	14,15
1972	0.0036		AS DIQUAT ION	18,19
1977	0.008		AS DIQUAT ION	28,29
** DISULFOTON				
1973	0.001	TEMPORARY		20,21
1975	0.002			24,25
1991	0.0003			62,64
** DNOC				
1963	NO ADI			2
1965	NO ADI			4
** DODINE				
1974	0.01	TEMPORARY		22,23
1976	0.01			26,27
** DPA				
			SEE DIPHENYLAMINE	

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** EDIFENPHOS			
1976	0.003	TEMPORARY	26,27
1979	0.003	TEMPORARY	32,33
1981	0.003		36,37
** ENDOSULFAN (ENDOSULFAN A, ENDOSULFAN B, ENDOSULFAN SULFATE)			
1963	NO ADI		2
1965	NO ADI		4
1967	NO ADI		8,9
1968	0.0075		10,11
1982	0.008	TEMPORARY	38,39
1985	0.008	TEMPORARY	44
1989	0.006		56,58
** ENDRIN			
1963	NO ADI		2
1965	NO ADI		3,4
1970	0.0002		14,15
** ETHEPHON			
1978	NO ADI		30,31
** ETHIOFENCARB			
1977	0.1	TEMPORARY	28,29
1982	0.1		38,39
** ETHION			
1968	0.00125		10,11
1972	0.005		18,19
1982	0.001	TEMPORARY	38,39
1985	0.0005	TEMPORARY	44
1986	0.006	TEMPORARY	47,49
1989	0.006	TEMPORARY	56
1990	0.002		59,61
** ETHOPROPHOS			
1983	NO ADI		40,41
1987	0.0003		50,52
** ETHOXYQUIN			
1969	0.06		12,13
** ETHYLENE DIBROMIDE			

SEE 1,2-DIBROMOETHANE

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** ETHYLENE DICHLORIDE		SEE 1,2-DICHLOROETHANE	
** ETHYLENE OXIDE			
1965	NO ADI		3,5
1968	NO ADI		10,11
** ETHYLENETHIOUREA / ETU			
1980	0.002	TEMPORARY	LISTED UNDER DITHIOCARBAMATES 34,35
1986	0.002	TEMPORARY	47
1988	0.002	TEMPORARY	53,55
** ETRIMFOS			
1980	0.003	TEMPORARY	34,35
1982	0.003		38,39
** ETU		SEE ETHYLENETHIOUREA	
** FENAMIPHOS			
1974	0.0006		22,23
1985	0.0003	TEMPORARY	44,46
1987	0.0005		50,52
** FENBUTATIN OXIDE			
1977	0.03		28,29
** FENCHLORPHOS			
1968	0.01		10,11
** FENITROTHION			
1969	0.001	TEMPORARY	12,13
1974	0.005		22,23
1977	0.005		28,29
1982	0.001	TEMPORARY	38,39
1984	0.003	TEMPORARY	42,43
1986	0.003		47,49
1988	0.005		53,55
** FENSULFOTHION			
1972	0.0003		18,19
1982	0.0003		38,39
** FENTHION			
1971	0.0005	TEMPORARY	16,17
1975	0.0005	TEMPORARY	24,25

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1978	0.0005	TEMPORARY	30,31
1979	0.0005	TEMPORARY	32,33
1980	0.001		34,35
** FENTIN ACETATE			
1963	NO ADI	EVALUATED UNDER TRIPHENYLTIN	2
1965	NO ADI	EVALUATED UNDER TRIPHENYLTIN	3,4
1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14,15
** FENTIN CHLORIDE			
1963	NO ADI	EVALUATED UNDER TRIPHENYLTIN	2
1965	NO ADI	EVALUATED UNDER TRIPHENYLTIN	3,4
1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14,15
** FENTIN COMPOUNDS			
1963	NO ADI	EVALUATED UNDER TRIPHENYLTIN	2
1965	NO ADI	EVALUATED UNDER TRIPHENYLTIN	3,4
1970	0.0005	APPLICABLE TO FENTIN ACETATE, FENTIN CHLORIDE AND FENTIN HYDROXYDE AND TO THE SUM OF EACH	14,15
1991	0.0005		62,64
** FENTIN HYDROXIDE			
1963	NO ADI	EVALUATED UNDER TRIPHENYLTIN	2
1965	NO ADI	EVALUATED UNDER TRIPHENYLTIN	3,4
1970	0.0005	ALONE OR IN COMBINATION WITH OTHER FENTIN COMPOUNDS	14,15
** FENVALERATE			
1979	0.06	TEMPORARY	32,33
1981	0.007	TEMPORARY	36,37
1982	0.007	TEMPORARY	38
1984	0.02	TEMPORARY	42,43
1986	0.02		47
** FERBAM			
1963	NO ADI		2
1965	NO ADI		4
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER DIMETHYLDITHIOCARBAMATES (THIRAM AND ZIRAM)
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL THE DITHIOCARBAMATE FUNGICIDES

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALUATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22,23
1977	0.02		LISTED UNDER DITHIOCARBAMATES SUM OF FERBAM AND ZIRAM	28,29
1980	0.02		LISTED UNDER DITHIOCARBAMATES SUM OF FERBAM AND ZIRAM	34,35
** FLUCYTHRINATE				
1985	0.02			44,46
** FLUSILAZOLE				
1989	0.001			56,58
** FOLPET				
1969	0.16	TEMPORARY		12,13
1973	0.1			20,21
1982	0.1	TEMPORARY		38
1984	TEMP ADI WITHDRAWN			42,43
1986	0.01	TEMPORARY		47,49
1990	0.01	TEMPORARY		59,61
** FORMOTHION				
1969	NO ADI			12,13
1973	0.02			20,21
** GAMMA-BHC / GAMMA-HCH / GAMMA-HEXACHLOROCYCLOHEXANE SEE LINDANE				
** GLUFOSINATE-AMMONIUM				
1991	0.02			62,64
** GLYPHOSATE				
1986	0.3			47,49
** GUAZATINE				
1978	0.03			30,31
** HCB				
			SEE HEXACHLOROBENZENE	
** HCH				
			SEE BHC	
** HEPTACHLOR / HEPTACHLOR EPOXIDE				
1963	NO ADI			2
1965	NO ADI			3,4

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
1966	0.0005		6,7
1970	0.0005		14,15
1991	0.0001		62,64
** HEXACHLORO BENZENE / HCB			
1969	0.0006	TENTATIVE NEGLIGIBLE DAILY INTAKE	12,13
1973	NO ADI	INTAKE OF 0.0006 MG/KG BW DAILY IS CONSIDERED BELOW ANY DOSAGE RATE KNOWN TO BE HARMFUL	20,21
1974	0.0006	CONDITIONAL	22,23
1978	COND ADI	WITHDRAWN	30,31
** HEXACHLOROCYCLOHEXANE			
		SEE LINDANE OR BHC / HCH	
** HEXACONAZOLE			
1990	0.005		59,61
** HEXYTHIAZOX			
1991	0.03		62,64
** HYDROGEN CYANIDE			
1965	0.05		3,5
** HYDROGEN PHOSPHIDE			
1965	NO ADI		3,5
1966	ADI NOT NECESSARY	ON BASIS OF NO RESIDUE IN FOOD	6,7
** IMAZALIL			
1977	0.01	TEMPORARY	28,29
1980	0.01	TEMPORARY	34,35
1984	0.01	TEMPORARY	42,43
1985	0.01	TEMPORARY	44,46
1986	0.01		47,49
1991	0.03		62,64
** IPRDIONE			
1977	0.3		28,29
** ISOFENPHOS			
1981	0.0005	TEMPORARY	36,37
1982	0.0005	TEMPORARY	38,39
1986	0.001		47,49
** LEAD ARSENATE			
		SEE ARSENATE, CALCIUM & LEAD	

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** LEPTOPHOS				
1974	NO ADI			22,23
1975	0.001	TEMPORARY		24,25
1978	TEMP ADI	WITHDRAWN		30,31
** LINDANE				
1963	0.0125			2
1965	0.0125			4
1966	0.0125		EVALUATED UNDER GAMMA-BHC	6,7
1970	0.0125			14,17
1973	0.01	TEMPORARY		20,21
1977	0.01			28,29
1989	0.008			56,58
** MALATHION				
1963	0.02			2
1965	0.02			3,4
1966	0.02			6,7
** MALEIC HYDRAZIDE				
1976	NO ADI		SODIUM OR POTASSIUM SALTS, 99.9% PURE AND NOT MORE THAN 1 MG HYDRAZINE / KG	26,27
1980	1	TEMPORARY	SODIUM OR POTASSIUM SALTS, 99.9% PURE AND NOT MORE THAN 1 MG HYDRAZINE / KG	34,35
1984	5		SODIUM OR POTASSIUM SALTS, 99.9% PURE AND NOT MORE THAN 1 MG HYDRAZINE / KG	42,43
** MANCOZEB				
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER ETHYLENE BISDITHIOCARBAMATES (MANEB AND ZINEB)	8,9
1970	0.025	TEMPORARY	APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND THE SUM OF ALL ETHYLENE BISDITHIOCARBAMATE FUNGICIDES	14,15
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF DITHIOCARBAMATES	22,23
1977	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF MANCOZEB, MANEB AND ZINEB	28,29
1980	0.05		LISTED UNDER DITHIOCARBAMATES INDIVIDUALLY OR THE SUM OF MANCOZEB, MANEB AND ZINEB	34,35

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** MANEB				
1963	NO ADI			2
1965	NO ADI			4
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER ETHYLENE BISDITHIOCARBAMATES (MANCOZEB AND ZINEB)	8,9
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL THE DITHIOCARBAMATE FUNGICIDES	14,15
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22,23
1977	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF MANCOZEB, MANEB AND ZINEB	28,29
1980	0.05		LISTED UNDER DITHIOCARBAMATES INDIVIDUALLY OR THE SUM OF MANCOZEB, MANEB AND ZINEB	34,35
** MECARBAM				
1980	0.001	TEMPORARY		34,35
1983	0.001	TEMPORARY		40,41
1985	0.0005	TEMPORARY		44
1986	0.002			47,49
** METALAXYL				
1982	0.03			38,39
** METHACRIFOS				
1980	0.0003	TEMPORARY		34,35
1982	0.0003	TEMPORARY		38,39
1986	0.0003	TEMPORARY		47,49
1988	0.003	TEMPORARY		53,55
1990	0.006			59,61
** METHAMIDOPHOS				
1976	0.002			26,27
1982	0.0004	TEMPORARY		38,39
1985	0.0006			44,46
1990	0.004			59,61
** METHIDATHION				
1972	0.005	TEMPORARY		18,19
1975	0.005			24,25

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** METHIOCARB			
1981	0.001		36,37
1983	0.001		40,41
1984	0.001		42
1985	0.001		44,46
1987	0.001		50
** METHOMYL			
1978	NO ADI		30,31
1986	0.01	TEMPORARY	47,49
1989	0.03		56,58
** METHOPRENE			
1984	0.06	TEMPORARY	42,43
1987	0.1		50
** METHOXYCHLOR			
1963	0.1		2
1965	0.1		4
1977	0.1		28,29
** METHYL BROMIDE			
SEE BROMOMETHANE			
** METHYL PARATHION			
1963	0.01		2
1965	0.01		4
1968	0.001	TEMPORARY	10,11
1972	0.001	TEMPORARY	18,19
1975	0.001	TEMPORARY	24,25
1979	0.001	TEMPORARY	32,33
1980	0.001	TEMPORARY	34,35
1982	0.001	TEMPORARY	38,39
1984	0.02		42,43
** MEVINPHOS			
1963	NO ADI		2
1965	NO ADI		4
1972	0.0015		18,19
** MGK 264			
1967	NO ADI		8,9
** MONOCROTOPHOS			
1972	0.0003		18,19

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALUATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
1975	0.0006			24, 25
1991	0.00005			62, 64
** NABAM	(CONVERTED INTO ZINEB WHEN USED WITH ZINC SULFATE)			
1963	NO ADI			2
1965	NO ADI			4
1967	0.025	TEMPORARY	AS ZINEB ALONE OR IN COMBINATION WITH OTHER ETHYLENE BISDITHIOCARBAMATES (MANCOZEB, MANEB AND ZINEB)	8, 9
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL DITHIOCARBAMATE FUNGICIDES	14, 15
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22, 23
1977	TEMP ADI	WITHDRAWN	LISTED UNDER DITHIOCARBAMATES	28, 29
** NITROFEN				
1983	NO ADI			40, 41
** OMETHOATE				
1971	0.0005	TEMPORARY		16, 17
1975	0.0005	TEMPORARY		24, 25
1978	0.0005	TEMPORARY		30, 31
1979	0.0005	TEMPORARY		32, 33
1981	0.0005	TEMPORARY		36, 37
1985	0.0003			44, 46
** OPP / SOPP			SEE PHENYLPHENOL, 2- AND ITS SODIUM SALT	
** ORGANOMERCURY COMPOUNDS				
1963	NO ADI			2
1965	NO ADI			4
1966	NO ADI			6, 7
1967	NO ADI			8, 9
** OXAMYL				
1980	0.01	TEMPORARY		34, 35
1983	0.01	TEMPORARY		40, 41
1984	0.03			42, 43
1985	0.03			44, 46

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** OXYDEMETON-METHYL / DEMETON-S-METHYL SULFOXIDE				
1963	0.0025			2
1965	0.0025			4
1967	0.0025			8,9
1968	ADI WITHDRAWN			10,11
1973			EVALUATED UNDER DEMETON-S-METHYL & RELATED COMPOUNDS	20,21
1982			EVALUATED UNDER DEMETON-S-METHYL & RELATED COMPOUNDS	38
1984	NO ADI			42,43
1989			EVALUATED UNDER DEMETON-S-METHYL & RELATED COMPOUNDS	56,58
** OXYTHIOQUINOX				
			SEE CHINOMETHIONAT	
** PACLOBUTRAZOL				
1988	0.1			53,55
** PARAQUAT				
1970	0.0007	TEMPORARY	AS PARAQUAT ION	14,15
1972	0.0014		AS PARAQUAT ION	18,19
1976	0.0014		AS PARAQUAT ION	26,27
1982	0.0007	TEMPORARY	AS PARAQUAT ION	38,39
1985	0.0007	TEMPORARY	AS PARAQUAT ION	44,46
1986	0.004		AS PARAQUAT ION	47,49
** PARATHION				
1963	0.005			2
1965	0.005			3,4
1967	0.005			8,9
** PARATHION-METHYL				
			SEE METHYL PARATHION	
** PERMETHRIN				
1979	0.03	TEMPORARY		32,33
1981	0.03	TEMPORARY		36,37
1982	0.05		FOR THE NOMINAL 40% CIS-, 60% TRANS- MATERIAL ONLY	38
1986	0.05		FOR THE NOMINAL 40% CIS-, 60% TRANS MATERIAL ONLY	47
1987	0.05		FOR THE NOMINAL 40% CIS-, 60% TRANS- AND 25% CIS-, 75% TRANS- MATERIALS	50,52

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** PHENOTHHRIN				
1980	0.2	TEMPORARY	20:80 CIS-TRANS RATIO	34,35
1984	0.04	TEMPORARY	20:80 CIS-TRANS RATIO ADI APPLIES TO "d-PHENOTHHRIN"	42,43
1988	0.07		20:80 CIS-TRANS RATIO ADI APPLIES TO "d-PHENOTHHRIN"	53,55
** PHENTHOATE				
1980	0.001	TEMPORARY		34,35
1984	0.003			42,43
** PHENYLMERCURIC ACETATE				
SEE ORGANOMERCURY COMPOUNDS				
** PHENYLPHENOL, 2- AND ITS SODIUM SALT				
1969	1.0			12,13
1983	0.02	TEMPORARY		40
1985	0.02	TEMPORARY		44,46
1989	0.02	TEMPORARY		56
1990	0.02			59,61
** PHORATE				
1977	NO ADI			28,29
1982	0.0002	TEMPORARY		38,39
1983	0.0002	TEMPORARY		40,41
1985	0.0002			44,46
** PHOSALONE				
1972	0.006			18,19
** PHOSMET				
1978	0.005	TEMPORARY		30,31
1979	0.02			32,33
** PHOSPHAMIDON				
1963	NO ADI			2
1965	NO ADI			4
1966	0.001			6,7
1968	0.001			10,11
1982	0.001	TEMPORARY		38,39
1985	0.0005	TEMPORARY		44
1986	0.0005			47,49
** PHOSPHINE				
SEE HYDROGEN PHOSPHIDE				

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]	COMMENTS	REFERENCE [see Annex 2]
** PHOXIM			
1982	0.0005	TEMPORARY	38,39
1984	0.001		42,43
** PIPERONYL BUTOXIDE			
1965	NO ADI		3,4
1966	0.03	TEMPORARY	6,7
1972	0.03		18,19
** PIRIMICARB			
1976	0.004	TEMPORARY	26,27
1978	0.01	TEMPORARY	30,31
1981	0.01	TEMPORARY	36,37
1982	0.02		38,39
** PIRIMIPHOS-METHYL			
1974	0.005	TEMPORARY	22,23
1976	0.01		26,27
** PROCHLORAZ			
1983	0.01		40,41
** PROCYMIDONE			
1981	NO ADI		36,37
1982	NO ADI		38
1989	0.1		56,58
** PROFENOFOS			
1990	0.01		59,61
** PROPAMOCARB			
1984	0.02	TEMPORARY	42,43
1986	0.1		47,49
** PROPARGITE			
1977	0.08	TEMPORARY	28,29
1980	0.08	TEMPORARY	34,35
1982	0.15		38,39
** PROPHAM			
1963	NO ADI		2
1965	NO ADI		3,4
** PROPICONAZOLE			
1987	0.04		50,52

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** PROPINEB				
1977	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES	28,29
1980	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES	34,35
1985	TEMP ADI WITHDRAWN			44,46
** PROPOXUR				
1973	0.02			20,21
1989	0.02			56,58
** PYRAZOPHOS				
1985	NO ADI			44,46
** PYRETHRINS				
1965	NO ADI			3,4
1966	0.04	TEMPORARY		6,7
1970	0.04	TEMPORARY		14,15
1972	0.04			18,19
** QUINTOZENE				
1969	0.001	TEMPORARY		12,13
1973	0.001	TEMPORARY		20,21
1975	0.007			24,25
1977	0.007			28,29
** T, 2,4,5-				
1970	NO ADI			14,15
1979	0.003	TEMPORARY		32,33
1981	0.03		CONTAINING NOT MORE THAN 0.01 MG TETRACHLORODIBENZODIOXIN (TCDD) / KG BODY WEIGHT	36,37
** TECNAZENE				
1974	NO ADI			22,23
1978	0.01	TEMPORARY		30,31
1981	0.01	TEMPORARY		36,37
1983	0.01			40
** TERBUFOS				
1989	0.0002			56,61
** THIABENDAZOLE				
1970	0.05			14,15
1977	0.3			28,29
** THIODICARB				
1985	0.01	TEMPORARY		44,46

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
1986	0.03			47,49
** THIOMETON				
1969	NO ADI			12,13
1973	0.005	TEMPORARY		20,21
1979	0.003			32,33
** THIOPHANATE-METHYL				
1973	0.08			20,21
1975	0.08			24,25
1977	0.08			28,29
** THIRAM				
1963	0.025			2
1965	0.025			4
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER DIMETHYLDITHIOCARBAMATES (FERBAM AND ZIRAM)	8,9
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL THE DITHIOCARBAMATE FUNGICIDES	14,15
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22,23
1977	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES	28,29
1980	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES	34,35
1985	TEMP ADI WITHDRAWN			44,46
** TIN AND ORGANOTIN COMPOUNDS				
			SEE FENTIN COMPOUNDS	
** TOLYLFLUANID				
1988	0.1			53,55
** TOXAPHENE				
			SEE CAMPHECHLOR	
** TRIADIMEFON				
1981	0.01	TEMPORARY		36,37
1983	0.01	TEMPORARY		40,41
1985	0.03			44,46
** TRIADIMENOL				
1989	0.05			56,58

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
** TRIAZOLYLALANINE				
1989	ADI NOT NECESSARY		METABOLITE OF TRIAZOLE PESTICIDES	56,58
** TRIAZOPHOS				
1982	0.0002	TEMPORARY		38,39
1986	0.0002	TEMPORARY		47,49
1991	0.0002	TEMPORARY		62,64
** TRICHLORFON				
1971	0.01	TEMPORARY		16,17
1975	0.005	TEMPORARY		24,25
1978	0.01			30,31
** TRICHLORONATE				
1971	NO ADI			16,17
** TRICYCLOHEXYLTIN HYDROXIDE				
			SEE CYHEXATIN	
** TRIFORINE				
1977	NO ADI			28,29
1978	0.02			30,31
** TRIPHENYLTIN COMPOUNDS				
			SEE FENTIN COMPOUNDS	
** VAMIDOTHION				
1973	NO ADI			20,21
1982	0.0003	TEMPORARY		38,39
1985	0.0003	TEMPORARY		44,46
1988	0.008			53,55
** VINCLOZOLIN				
1986	0.04	TEMPORARY		47,49
1988	0.07			53,55
** ZINEB				
1963	NO ADI			2
1965	NO ADI			4
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER ETHYLENE BISDITHIOCARBAMATES (MANCOZEB, MANEB AND ZINEB)	8,9
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL THE DITHIOCARBAMATE FUNGICIDES	14,15

PROFILES OF TOXICOLOGICAL
EVALUATIONS BY
THE JOINT FAO/WHO MEETING ON
PESTICIDE RESIDUES [JMPR]

YEAR OF EVALU- ATION	ADI [mg/kg bw]		COMMENTS	REFERENCE [see Annex 2]
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22,23
1977	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF MANCOZEB, MANEB AND ZINEB	28,29
1980	0.05		LISTED UNDER DITHIOCARBAMATES INDIVIDUALLY OR THE SUM OF MANCOZEB, MANEB AND ZINEB	34,35
** ZIRAM				
1963	NO ADI			2
1965	NO ADI			4
1967	0.025	TEMPORARY	ALONE OR IN COMBINATION WITH OTHER DIMETHYLDITHIOCARBAMATES (FERBAM AND THIRAM)	8,9
1970	0.025	TEMPORARY	LISTED UNDER DITHIOCARBAMATES APPLICABLE TO THE PARENT COMPOUNDS ONLY, AND TO THE SUM OF ALL THE DITHIOCARBAMATE FUNGICIDES	14,15
1974	0.005	TEMPORARY	LISTED UNDER DITHIOCARBAMATES SUM OF ALL DITHIOCARBAMATES	22,23
1977	0.02		LISTED UNDER DITHIOCARBAMATES SUM OF FERBAM AND ZIRAM	28,29
1980	0.02		LISTED UNDER DITHIOCARBAMATES SUM OF FERBAM AND ZIRAM	34,35

ANNEX 1

1. Codes for chemical class

AM	acid amide	OP	organophosphate
AS	arsenic compound	OT	other
BR	bromide	PO	phenoxy
CB	carbamate	PY	pyrethroid
DN	dinitrophenol/dinitrophenolate	SN	organotin
HC	heterocyclic	TC	thiocarbamate
HG	organomercury	UR	urea
OC	organochlorine		

2. Codes for use

AC	acaricide, miticide	MO	molluscicide
AL	algicide	NE	nematicide
AN	anthelmintic	OT	other
BA	bacteriocide	PG	plant growth regulator
FM	fumigant	RE	repellent
FU	fungicide	RO	rodenticide
HB	herbicide	SY	synergist
IG	insect growth regulator	TE	termiticide
IN	insecticide		

3. IPCS EHC Document

The number refers to the number of the publication in the WHO Environmental Health Criteria series. An asterisk (*) indicates that a synonym rather than the common name is used in the publication. In some cases the EHC publication includes a broader subject area than the listed pesticide. Some of the listed publications have not yet been published. EHC publications are available through the network of WHO Sales Agents or from Distribution and Sales Service, World Health Organization, 1211 Geneva 27, Switzerland. A free catalogue of EHC publications is available upon request at this address.

4. IARC Monograph

The number refers to the number of the publication in the International Agency for Research on Cancer Monograph Series. An asterisk (*) indicates that a synonym rather than the common name is used in the publication. IARC monographs are available through the network of WHO Sales Agents or from Distribution and Sales Service, World Health Organization, 1211 Geneva 27, Switzerland.

5. WHO/FAO Data Sheets

Some of the higher-numbered data sheets have not yet been published. An asterisk (*) indicates that a synonym rather than the common name is used to identify the data sheet. Pesticide data sheets are available from the Manager, International Programme on Chemical Safety, World Health Organization, 1211 Geneva 27, Switzerland.

ANNEX 2

REPORTS AND OTHER DOCUMENTS RESULTING FROM PREVIOUS JOINT MEETINGS OF THE FAO PANEL OF EXPERTS ON PESTICIDE RESIDUES IN FOOD AND THE ENVIRONMENT AND WHO EXPERT GROUPS ON PESTICIDE RESIDUES

PREVIOUS FAO AND WHO DOCUMENTS

1. Principles governing consumer safety in relation to pesticide residues. Report of a meeting of a WHO Expert Committee on Pesticide Residues held jointly with the FAO Panel of Experts on the Use of Pesticides in Agriculture. FAO Plant Production and Protection Division Report, No. PL/1961/11; WHO Technical Report Series, No. 240.
2. Evaluation of the toxicity of pesticide residues in food; report of a Joint Meeting of the FAO Committee on Pesticides in Agriculture and the WHO Expert Committee on Pesticide Residues. FAO Meeting Report, No. PL/1963/13; WHO/Food Add./23.
3. Evaluation of the toxicity of pesticide residues in food. Report of the Second Joint Meeting of the FAO Committee on Pesticides in Agriculture and the WHO Expert Committee on Pesticide Residues. FAO Meeting Report, No. PL/1965/10; WHO/Food Add./26.65.
4. Evaluation of the toxicity of pesticide residues in food. FAO Meeting Report, No. PL/1965/10/1; WHO/Food Add./27.65.
5. Evaluation of the hazards to consumers resulting from the use of fumigants in the protection of food. FAO Meeting Report, No. PL/1965/10/2; WHO/Food Add./28.65.
6. Pesticide residues in food. Joint report of the FAO Working Party on Pesticide Residues and the WHO Expert Committee on Pesticide Residues. FAO Agricultural Studies, No. 73; WHO Technical Report Series, No. 370.
7. Evaluation of some pesticide residues in food. FAO/PL:CP/15; WHO/Food Add./67.32.
8. Pesticide residues. Report of the 1967 Joint Meeting of the FAO Working Party and the WHO Expert Committee. FAO Meeting Report, No. PL:1967/M/11; WHO Technical Report Series, No. 391.
9. 1967 Evaluations of some pesticide residues in food. FAO/PL:1967/M/11/1; WHO/Food Add./68.30.
10. Pesticide residues in food. Report of the 1968 Joint Meeting of the FAO Working Party of Experts on Pesticide Residues and the WHO Expert Committee on Pesticide Residues. FAO Agricultural Studies, No. 78; WHO Technical Report Series, No. 417.
11. 1968 Evaluation of some pesticide residues in food. FAO/PL:1968/M/9/1; WHO/Food Add./69.35.

12. Pesticide residues in food. Report of the 1969 Joint Meeting of the FAO Working Party of Experts on Pesticide Residues and the WHO Expert Group on Pesticide Residues. FAO Agricultural Studies, No. 84; WHO Technical Report Series, No. 458.
13. 1969 evaluations of some pesticide residues in food. FAO/PL:1969/M/17/1; WHO/Food Add./70.38.
14. Pesticide residues in food. Report of the 1970 Joint Meeting of the FAO Working Party of Experts on Pesticide Residues and the WHO Expert Committee on Pesticide Residues. FAO Agricultural Studies, No. 87; WHO Technical Report Series, No. 474.
15. 1970 Evaluations of some pesticide residues in food. AGP:1970/M/12/1; WHO/Food Add./71.42.
16. Pesticide residues in food. Report of the 1971 Joint Meeting of the FAO Working Party of Experts on Pesticide Residues and the WHO Expert Committee on Pesticide Residues. FAO Agricultural Studies, No. 88; WHO Technical Report Series, No. 502.
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