

**PROGRAMME FOR DEVELOPMENT OF
FAO AND WHO SPECIFICATIONS FOR PESTICIDES**

(1) Original proposer; (2) Subsequent proposer(s); (3) Specification for formulation

Year	Products	Proposer(s)
2012	FAO:	
	Flumioxazine TC, WP	(1) Sumitomo
	Fosetyl-AI TC	(2) Helm AG
	Glyphosate TC	(2) Helm AG
	Imidacloprid TC, WS, WG, SC, FS & SL	(2) Cheminova A/S
	Propamocarb hydrochloride TC, TK, SL	(1) Bayer
	Thiamethoxam TC, FS	(1) Syngenta
	WHO:	
	Alpha-cypermethrin WG	(3) Tagros
	Malathion EW	(3) Cheminova
	Permethrin 25:75	(2) Bayer
	Permethrin + PBO (incorporated into filaments) LN	(3) Sumitomo
	S-bioallethrin + permethrin + PBO	(3) Bayer
	Spinosad CG, DT	(3) Clarke/Dow AgroSciences
	Temephos	(2) Fersol
	FAO & WHO:	
	Deltamethrin	(2) Isagro (Italy)
	Diflubenzuron TC	(2) Helm AG
	2011	FAO:
Azoxystrobin		(2) Helm AG
Cyazofamid TC,SC		(1) ISK
Dimethoate EC		(3) Task Force (Cheminova; BASF; Isagro)
Dinotefuran TC, SC		(1) Mitsui
Fipronil		(2) Helm AG
Hexazinone TC		(2) Nutrichem
Picloram TC		(2) Nutrichem
WHO:		
Alpha-cypermethrin (incorporated into filaments) LN		(2) Disease Control Technologies; (2) VKA Polymers
<i>Bacillus thuringiensis israelensis</i> GR		(3) Valent BioSciences
Deltamethrin (incorporated into filaments) LN		(3) Bayer
Lambda-cyhalothrin CS		(3) Tagros
Pirimiphos-methyl CS		(3) Syngenta

	FAO & WHO:	
	Alpha-cypermethrin TC	(2) Bharat Rasayan Ltd
	Chlorfenapyr TC, SC	(1) BASF
	Deltamethrin EC,EW,SC	(3) Bayer
	Lambda-cyhalothrin TC	(2) Bharat Rasayan Ltd
	Permethrin (40:60 <i>cis:trans</i>) TC	(2) Tagros
2010	FAO:	
	Flazasulfluron TC and WG	(1) Ishihara Sangyo Kaisha
	fosthiazate TC, FG and EC	(1) Ishihara Sangyo Kaisha
	Metsulfuron-methyl, TC and WG	(2) Cheminova A/S
	Nicosulfuron, TC and (SC or OD)	(2&3) Cheminova A/S
	Thifensulfuron-methyl, TC and WG	(2) Cheminova A/S
	Tribenuron-methyl, TC and WG	(2) Cheminova A/S
	Triflumuron TC, WP, SC	(1) Bayer CropScience
	Clothianidin (FS)	(3) Sumitomo
	Pyriproxyfen (EW)	(3) Sumitomo
	WHO:	
	Deltamethrin (coated) LN	(2) Tianjin Yorkool, China
	Spinosad EC	(3) DAS/Clarke Mosquito Control
	Temephos	(2) Coromandel Fertilisers Ltd.
	FAO & WHO:	
	Chlorpyrifos	(2) Meghmani Organics (withdrawn)
	Deltamethrin	(2) Meghmani Organics (withdrawn)
	Lambda-cyhalothrin	(2) Meghmani Organics (withdrawn)
	Permethrin	(2) Meghmani Organics (withdrawn)
	Permethrin EC	(3) Tagros
2009	FAO:	
	Tribasic Copper Sulfate	(1) Cerexagri
	Azoxystrobin	(2) Makhteshim
	Clothianidin	(1) Bayer, Sumitomo
	Fosetyl-Al	(2) Helm AG
	Thiophanate-methyl	(2) Helm AG
	Triadimenol	(1) Bayer
	Triadimefon	(1) Bayer
	WHO:	
	Deltamethrin coated/incorporated LN	(3) Vestergaard Frandsen
	Deltamethrin coated LN	(3) Tana Netting
	Temephos	(2) Coromandel Fertilisers Ltd.

	FAO & WHO:	
	Alpha-cypermethrin TC,SC,WP	(2) Meghmani Organics
	Bifenthrin TC,WP,EC,SC	(1) FMC
	Diazinon	(1) Makhteshim (withdrawn)
	Lambda-cyhalothrin	(2) Heranba (withdrawn)
	Permethrin	(1) Tagros
	Piperonyl butoxide	(1) Endura
2008	FAO:	
	Carbosulfan	(1) FMC
	1-methylcyclopropene	(1) Rohm and Haas France SAS
	Cyprodinil TC,EC,WG	(1) Syngenta
	Fipronil TC,TK,EC,FS,SC,UL,WG	(1) BASF/Bayer; (2) Gharda Chemicals
	Fluazinam	(1) ISK Biosciences Europe
	Haloxypop-P-Methyl TC,EC	(1) DAS
	Imidacloprid GR	(3) Cheminova
	Indoxacarb TC,TK,WG,SC,EC	(1) Dupont
	Mefenpyr-diethyl TC,WG,EW,EC,OD	(1) Bayer
	Pendimethalin	(1) Finchimica
	WHO:	
	Lambda-cyhalothrin coated LN	(3) Syngenta - withdrawn
	Deltamethrin incorporated LN	(3) Intelligent Insect Control
	Temephos TC,EC,GR	(2) Gharda Chemicals
	FAO & WHO:	
	Alpha-cypermethrin TC,SC,WP	(2) Gharda Chemicals
	Bifenthrin TC,WP	(1) FMC
	Chlorpyrifos TC,EC	(2) Gharda Chemicals
	Deltamethrin	(1) Bayer
	Deltamethrin TC,SC,WP	(2) Gharda Chemicals
	Lambda-cyhalothrin TC,EC,WP	(2) Heranba - withdrawn
	Permethrin TC,EC	(2) Tagros
2007	FAO:	
	Azoxystrobin TC,SC,WG	Syngenta
	Deltamethrin LN	Vestergaard Frandsen
	Fenoxaprop-p-ethyl	Bayer
	Fluazinam	ISK Biosciences Europe
	Flusilazole	Dupont
	Glyphosate	JSC Trans Oil
	Lufenuron TC,EC	Syngenta
	Oxamyl	Dupont
	Propanil TC	Proficol SA

	Thiacloprid TC,SC,SE,OD,WG	Bayer CropScience
	WHO:	
	Alpha-cypermethrin LN	Clarke Mosquito Control Products
	Bendiocarb TC,WP	Bayer, Argos
	Deltamethrin LN	Intelligent Insect Control
	Deltamethrin LN	Tana Netting
	Deltamethrin LN	Netto Group; Hiking Group Shandongtex Genfont; Yorkool
	Spinosad DT	DAS
	FAO & WHO:	
	Alpha-cypermethrin TC	Heranba
	Cyromazine TC,WP	Syngenta
	Fenitrothion TC, EC,WP	Sumitomo
	Lambda-cyhalothrin TC	Heranba
	Permethrin TC, EC	Sumitomo
2006	FAO:	
	Carbaryl TC, ...	Bayer
	Clodinafop propargyl ...	Syngenta
	Chlorothalonil TC	Sipcam Agro, USA
	Clofentezine TC, SC	Makhteshim
	Fosetyl-AI TC, WG, WP	Bayer
	Propanil TC	Proficol, S.A.
	Propaquizafop TC, EC	Makhteshim
	WHO:	
	Alpha-cypermethrin LN	BASF
	<i>Bacillus thuringiensis israelensis</i> WG, DT	Valent BioSciences
	Permethrin LN	Sumitomo
	Transflutrin TC	Bayer
	FAO & WHO:	
	Bendiocarb TC, WP	Argos
	Chlorpyrifos TC, EC, UL	Cheminova, ACME Org.
	Deltamethrin TC	Heranba Ind.
	Dimethoate TC, EC	JSC Trans oil, Ukraine
	Etofenprox TC, EW, WP	Mitsui
	Lambda-cyhalothrin TC, WP	Tagros
	rs-Methoprene TC, EC	Babolna Bio
	Permethrin TC, EC	Tagros
2005	FAO:	
	Clofentezine TC, SC	Makhteshim
	Chlorothalonil	Caffaro SpA, Vischim Srl, SDS

		Biotech K.K.
	Copper , cupric hydroxide and oxychloride (to include copper calcium oxychloride), Bordeaux mixture, tribasic copper sulphate and cupric oxide	European Union Copper Task Force
	Diquat dibromide, SL	Syngenta
	Ethofumesate TK,SC,EC,SE,OD	Bayer
	Nicosulfuron TC, WG	Dupont
	Pendimethalin TC,TK,EC	Industria Prodotti Chimici
	Rimsulfuron TC, WG	Dupont
	WHO:	
	IR3535	Merck
	Permethrin long-lasting insecticidal net	Sumitomo
	S-bioallethrin TC	Sumitomo
	Permethrin/S-bioallethrin EW	Bayer
	Temephos	BASF
	FAO & WHO:	
	Alpha-cypermethrin TC, SC, WP	BASF, Tagros
	Bendiocarb TC, WP	Agros
	Deltamethrin TC, WP	Agros
	Deltamethrin TC, SC, WT, WG, WP, EC	Tagros
	Permethrin TC	Sumitomo
	Permethrin TC, EC	Tagros
	Pyriproxyfen TC,GR	Sumitomo
	Spinosad TC,GR,SC	DAS
2004	FAO:	
	Azadirachtin	Fortune Biotech
	Azimsulfuron	Dupont
	Butralin (withdrawn)	Nufarm
	Chlorothalonil TC,SC,WG,WP	Syngenta
	Cymoxanil TC,WP,WG	Dupont
	Guazatine TC, LS	Makhteshim
	Picloram	DAS
	Prochloraz TC, EC, SC	Makhteshim
	Propanil	Propanil Task Force (DAS; Riceco)
	WHO:	
	<i>Bacillus thuringiensis israelensis</i> WG	Valent BioSciences
	Deltamethrin long-lasting insecticidal net	Vestergaard
	Icaridin (KBR 3023)	Bayer
	FAO & WHO:	
	Bifenthrin TC, WP	FMC

	Deltamethrin TC, DP, SC, UL, WG, WP,WT	Bayer
	Diflubenzuron TC, WP	Crompton Corp.
	Fenthion TC, EC, WP	Bayer
	Pirimiphos-methyl TC, EC, WP	Syngenta
2003	FAO:	
	Azadirachtin	Godrej; Trifolio; Fortune
	Chlormequat chloride TC, TK, SL	BASF; NUFARM; UCB; Ciba Speciality Chemicals
	Chlorsulfuron TC, WG, WP	Dupont
	Flufenzine TC, TK	Agro-Chemie
	Hexazinone TC, SP, WG, GR, SL	Dupont
	Imidacloprid	Bayer
	Iprodione	Bayer
	Maleic hydrazide	Drexel; Fair Products
	Paraquat TK, SL, SG	Syngenta
	WHO:	
	Bioallethrin TC	Sumitomo
	Cyfluthrin TC, EW, WP	Bayer
	Esbiothrin TC	Sumitomo
	Trans-cyphenothrin TC, EC	Sumitomo
	FAO & WHO:	
	Deltamethrin TC, DP, SC, UL, WG, WP, WT	Bayer
	Lambda-cyhalothrin TC, CS, EC, WP	Syngenta
	Malathion TC, DP, EC	Cheminova
	Novaluron TC, EC, WG	Makhteshim
	Propoxur TC, WP	Bayer
2002	FAO:	
	Azadirachrin	Godrej; Fortune
	Bensulfuron-methyl TC, WP, WG	Dupont
	Beta-cypermethrin TC, TK	Agro-Chemie
	Butralin (withdrawn)	
	Dicamba TC, WG, SL(SG)	Syngenta; BASF; Gharda
	Flufenzine TC; TK	Agro-Chemie
	Glyphosate SL	Syngenta
	Maleic hydrazide TC, TK, SL, SG	Crompton Corp. (Uniroyal)
	Iprodione (withdrawn)	
	Methomyl Tc, SP, SP-SB, SL	BASF
	Tribenuron methyl TC, WG	Dupont
	WHO:	

d-allethrin TC	Sumitomo
d-phenothrin TC	Sumitomo
Prallethrin TC	Sumitomo
Transfluthrin TC	Bayer
FAO & WHO:	
Chlorpyrifos TC, EC, UL, WP	DAS; Makhteshim; Gharda (withdrawn)
Niclosamide TC,TK, EC, SC, WP	Bayer