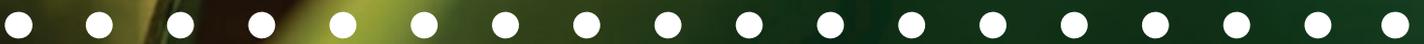




COFFEE SUSTAINABILITY REFERENCE CODE



ANNEX: PESTICIDES LISTS

OVERVIEW

The Coffee Sustainability Reference Code is a common language to help the coffee sector collectively advance farmers' prosperity, improved well-being, and the conservation of nature.

Highly Hazardous Pesticides are pesticides that are acknowledged to present particularly severe hazards to health or environment. The Global Coffee Platform (GCP) uses internationally recognised classification systems including the Globally Harmonized System (GHS), listings of World Health Organization (WHO) and US Environmental Protection Agency (EPA) and international agreements or conventions.

To reduce risks to farmers and workers' health or the environment, the [Coffee Sustainability Reference Code](#), Principle 9.3 on Pest and Weed Management, includes two lists of pesticides. One of pesticides which are not to be used (**Prohibited List**) and one of pesticides that are to be reduced and phased out (**Phase-out List**).

PROHIBITED LIST

Pesticides in the Prohibited List are not used.

This includes pesticides that are:

1. Listed under the Stockholm Convention, Rotterdam Convention or Montreal Protocol; or which meet the criteria of the Conventions and are recommended for inclusion by the respective Conventions' Chemical Review Committee.
 2. In one of the three most acutely toxic classifications via ingestion, skin contact or inhalation, or known carcinogens, classified by national or international regulatory agencies.
- OR**

PHASE-OUT LIST

Use of pesticides in the Phase-out List are reduced through use of Integrated Pest Management (see [Glossary](#)) and phased out by 2030, if feasible. This includes pesticides that are classified by national and international regulatory agencies in the categories of:

1. Chronic hazard, including probable carcinogens, known endocrine disruptors, known reproductive toxins or known mutagens
 2. Environmental hazards (highly toxic to bees, OR two or more of: bioaccumulation, persistence, high toxicity to aquatic organisms)
- OR**

GCP Pesticides Working Group

A working group, convened by GCP, will be looking into the phase-out date of each active ingredient, relevant for coffee, on which the active ingredient shall enter the Prohibited List, subject to certain conditions. The main condition is that the pesticides working group has verified that effective, feasible and financially viable alternatives are available to coffee farmers across production regions to tackle the specific pest, weed or disease problem(s) targeted by the material. Other factors including resistance management, harm caused and coffee relevance, will also be considered by the working group in prioritising phase-out efforts. Organisations that work with coffee producers, particularly smallholder farmers, should support them to reduce the use of pesticides included in the Phase-Out List to gradually meet the phase-out goal. GCP aims at supporting these efforts, for example through GCP Collective Action Initiatives on Agrochemicals and Agro-Inputs as already existing in Brazil and Vietnam.

Notes on Prohibited List:

- 1. Acute Toxicity:** 'Extremely hazardous' WHO class 1a according to the World Health Organisation Recommended Classification of Pesticides by hazard; 'Highly hazardous' WHO class 1b according to the WHO Recommended Classification of Pesticides by hazard; 'Fatal if inhaled' H330 hazard statement according to the Globally Harmonized System (GHS) for classification and labelling of chemicals.
- 2. Known Carcinogens:** The highest concern classifications, equivalent to 'known carcinogen', according to the US Environmental Protection Agency (EPA), the International Agency for Research on Cancer (IARC) and the Globally Harmonized System (GHS).

Notes on Phase-out List:

- 3. Cancer Hazard:** The second highest concern classifications, equivalent to 'probable or likely carcinogen', according to the US Environmental Protection Agency (EPA), the International Agency for Research on Cancer (IARC) and the Globally Harmonized System (GHS).
- 4. Chronic Health Hazard:** Known mutagenic substances, according to the Globally Harmonized System (GHS). These are known to trigger mutations in human germ cells (eggs or sperm) which can be inherited by the children. Known or presumed human reproductive toxicants, according to the Globally Harmonized System. These substances can adversely affect human reproduction. Endocrine disruptors, according to GHS and EU classifications. These substances can upset the hormone signalling systems in humans, with effects on normal development, growth, reproduction, metabolism and links to cancers of the reproductive organs.
- 5. Environmental Hazards:** Very persistent in water, soil or sediment, according to the Stockholm Convention. Very bio accumulative, according to the Stockholm Convention. These substances build up in the food chain, affecting top level predators, including humans. Very highly toxic for aquatic organisms, according to water flea toxicity threshold data used by the US Environmental Protection Agency. Highly toxic for bees, according to toxicity threshold data of US Environmental Protection Agency. Note that to qualify in the GCP Phase-out List for environmental hazard, a pesticide must meet two of the three criteria for persistence, bioaccumulation and toxicity and/or be highly toxic for bees.
- 6. Emergency use derogations** shall be permitted under the GCP Equivalence Mechanism, subject to controls that may include: necessity of use, availability of alternatives and identification efforts, specific time limitations on validity of derogation, etc.



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions			See note below the table	Acute Toxicity			Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol		WHO Ia	WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (IA, 1B)	
1	Abamectin	71751-41-2						1	1				Yes
2	Aldicarb	116-06-3		1			1		1				Yes
3	Aluminum phosphide	20859-73-8							1				Yes
4	Carbofuran	1563-66-2		1		X		1	1				Yes
5	Chlorothalonil	1897-45-6							1				Yes
6	Endosulfan	115-29-7	1	1					1				Yes
7	Lambda-cyhalothrin	91465-08-6							1				Yes
8	Methyl bromide	74-83-9			1								Yes
9	Paraquat dichloride	1910-42-5		1		CF			1				Yes
10	Tebuconazole	107534-96-3							1				Yes
11	Terbufos	13071-79-9					1						Yes
12	Triazophos	24017-47-8						1					Yes
13	zeta-Cypermethrin	1315501-18-8						1					Yes
14	Acrolein	107-02-8						1	1				No
15	Alachlor	15972-60-8		1									No
16	alpha-BHC; alpha-HCH	319-84-6; 319-85-7	1										No
17	Alpha-chlorohydrin	96-24-2						1					No
18	Anthracene oil	90640-80-5										1	No
19	Arsenic and its compounds	7778-39-4								1	1	1	No
20	Azinphos-ethyl	2642-71-9						1					No
21	Azinphos-methyl	86-50-0		1				1	1				No
22	Azocyclotin	41083-11-8							1				No
23	Benomyl	17804-35-2		1		X							No



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions			See note below the table	Acute Toxicity			Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol		WHO Ia	WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (IA, 1B)	
24	Beta-cyfluthrin	1820573-27-0						1	1				No
25	beta-HCH; beta-BCH	319-85-7	1										No
26	Biphenyl; Diphenyl	92-52-4										1	No
27	Blastidicin-S	2079-00-7						1					No
28	Brodifacoum	56073-10-0					1		1				No
29	Bromadiolone	28772-56-7					1		1				No
30	Bromethalin	63333-35-7					1						No
31	Bromophos-ethyl	4824-78-6						1					No
32	Bromoxynil	1689-84-5							1				No
33	Butocarboxim	34681-10-2						1					No
34	Butoxycarboxim	34681-23-7						1					No
35	Cadusafos	95465-99-9						1					No
36	Calcium cyanide	592-01-8					1						No
37	Captafol	2425-06-1		1			1					1	No
38	Carbosulfan	55285-14-8		1		CPIC			1				No
39	Chlordane	57-74-9	1	1									No
40	Chlorethoxyphos	54593-83-8					1						No
41	Chlorfenvinphos	470-90-6						1					No
42	Chlormephos	24934-91-6					1						No
43	Chlorophacinone	3691-35-8					1						No
44	Chloropicrin	76-06-2							1				No
45	Copper (II) hydroxide	20427-59-2							1				No
46	Coumaphos	56-72-4						1	1				No
47	Coumatetralyl	5836-29-3						1	1				No



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions			See note below the table	Acute Toxicity			Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol		WHO Ia	WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (IA, 1B)	
48	Creosote	8001-58-9										1	No
49	Cyfluthrin	68359-37-5						1	1				No
50	DDT	50-29-3	1	1									No
51	Demeton-methyl (isomere mix of O-methyl and S-methyl)	8022-00-2								1			No
52	Demeton-S-methyl	919-86-8						1					No
53	Dichlorvos; DDVP	62-73-7						1	1				No
54	Dicofol	115-32-2	1			CPOP							No
55	Dicrotophos	141-66-2						1					No
56	Difenacoum	56073-07-5					1						No
57	Difethialone	104653-34-1					1		1				No
58	Dinoterb	1420-07-1						1					No
59	Diphacinone	82-66-6					1						No
60	Diquat dibromide	85-00-7								1			No
61	Diquat dichloride	4032-26-2								1			No
62	Disulfoton	298-04-4					1						No
63	DNOC and its salts	534-52-1		1				1	1				No
64	Dodine	2439-10-3								1			No
65	Edifenphos	17109-49-8						1					No
66	E-Phosphamidon	297-99-4					1						No
67	Epichlorohydrin	106-89-8										1	No
68	EPN	2104-64-5					1						No
69	Ethiofencarb	29973-13-5						1					No
70	Ethion	563-12-2								1			No



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions				Acute Toxicity			Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol	See note below the table	WHO Ia	WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (1A, 1B)	
71	Ethoprophos; Ethoprop	13194-48-4					1		1				No
72	Ethylene dibromide; 1,2-dibromoethane	106-93-4		1								1	No
73	Ethylene dichloride; 1,2-dibromoethane	107-06-2		1								1	No
74	Ethylene oxide	75-21-8		1								1	No
75	Famphur	52-85-7						1					No
76	Fenamiphos	22224-92-6						1	1				No
77	Fenbutatin-oxide	13356-08-6							1				No
78	Fenchlorazole-ethyl	103112-35-2										1	No
79	Fenhexamid	126833-17-8							1				No
80	Fenpropathrin	39515-41-8							1				No
81	Fenpyroximate	134098-61-6							1				No
82	Fenthion	55-38-9		1		CF							No
83	Fentin acetate; Triphenyltin acetate	900-95-8							1				No
84	Fentin hydroxide; Triphenyltin hydroxide	76-87-9							1				No
85	Ferbam	14484-64-1							1				No
86	Flocoumafen	90035-08-8					1		1				No
87	Fluazinam	79622-59-6							1				No
88	Flucythrinate	70124-77-5						1					No
89	Fluoroacetamide	640-19-7		1				1					No
90	Flusulfamide	106917-52-6							1				No



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions			See note below the table	Acute Toxicity			Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol		WHO Ia	WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (IA, 1B)	
91	Fluvalinate	69409-94-5							1				No
92	Folpet	133-07-3							1				No
93	Formaldehyde	50-00-0									1		No
94	Formetanate	22259-30-9						1	1				No
95	Furathiocarb	65907-30-4						1	1				No
96	Heptenophos	23560-59-0						1					No
97	hexachlorobenzene / benzene hexachloride (HCB/ BHC)	118-74-1	1	1			1					1	No
98	Hexchlorocyclohexane; mix of isomers (beta-HCH & alpha-HCH)	608-73-1		1									No
99	Hydrogen cyanide**	74-90-8					1		1				No
100	Isoxathion	18854-01-8						1					No
101	Lindane	58-89-9	1	1							1		No
102	Magnesium phosphide	12057-74-8							1				No
103	Mecarbam	2595-54-2						1					No
104	Mercury and its compounds	7439-97-6		1					1				No
105	Methamidophos	10265-92-6		1		X		1	1				No
106	Methidathion	950-37-8						1					No
107	Methiocarb	2032-65-7						1					No
108	Methomyl	16752-77-5						1					No
109	Mevinphos	7786-34-7					1						No
110	Monocrotophos	6923-22-4		1				1	1				No



PROHIBITED LIST

International Conventions

Acute Toxicity

Known Carcinogens

No.	Name of active ingredient of pesticide	CAS Number	International Conventions				See note below the table	Acute Toxicity			Known Carcinogens		Coffee Relevant
			POP	PIC	Montreal Protocol	WHO Ia		WHO Ib	H330	EPA carc	IARC carc	GHS+ carc (IA, 1B)	
111	Nicotine	54-11-5						1	1				No
112	Omethoate	1113-02-6						1					No
113	Oxamyl	23135-22-0					1		1				No
114	Oxydemeton-methyl	301-12-2						1					No
115	Paraffin oils; mineral oils	64741-88-4										1	No
116	Parathion	56-38-2		1			1						No
117	Parathion-methyl	298-00-0		1		X	1		1				No
118	PCP; Pentachlorophenol	87-86-5		1				1	1				No
119	Phorate	298-02-2		1			1						No
120	Phosphamidon	13171-21-6		1		X	1						No
121	Phosphine	7803-51-2							1				No
122	Potasan	299-45-6							1				No
123	Propetamphos	31218-83-4						1					No
124	Propylene oxide, Oxirane	75-56-9										1	No
125	Pyrazoxon	108-34-9							1				No
126	Pyrimidifen	105779-78-0							1				No
127	Sodium cyanide	143-33-9						1					No
128	Sodium fluoroacetate (1080)	62-74-8					1		1				No
129	Spirodiclofen	148477-71-8										1	No
130	Strychnine	57-24-9						1					No
131	Sulfluramid	4151-50-2	1*	1									No
132	Sulfotep	3689-24-5					1						No
133	Tau-fluvalinate	102851-06-9							1				No



PROHIBITED LIST

No.	Name of active ingredient of pesticide	CAS Number	International Conventions			See note below the table	Acute Toxicity		Known Carcinogens			Coffee Relevant
			POP	PIC	Montreal Protocol		WHO Ia	WHO Ib	H330	EPA carc	IARC carc	
134	TCMTB	21564-17-0							1			No
135	Tebupirimifos	96182-53-5					1					No
136	Tefluthrin	79538-32-2						1	1			No
137	Thiofanox	39196-18-4						1				No
138	Thiometon	640-15-3						1				No
139	Thiram in formulations with benomyl and carbofuran	137-26-8		1		X						No
140	Tolyfluanid	731-27-1							1			No
141	Trichlorfon	52-68-6		1								No
142	Vamidothion	2275-23-2						1				No
143	Warfarin	81-81-2						1	1			No
144	Zinc phosphide	1314-84-7						1				No
145	Ziram	137-30-4							1			No
146	Z-Phosphamidon	23783-98-4					1					No

Notes on Phase-out List:

GHS+: This list uses the EU and the Japan GHS (Global Harmonized System on Classification and Labelling of Chemicals)

X: Annex III of the Rotterdam Convention includes certain specific formulations.

CF: Formulations have been agreed by the Rotterdam CRC to meet the criteria for listing and are recommended for inclusion but are not yet formally listed

C PIC: Material meets the criteria of the Rotterdam Convention and is recommended for inclusion by the Convention's Chemical Review Committee but has not yet been listed.

C POP: Material meets the criteria of the Stockholm Convention and is recommended for inclusion by the Convention's Chemical Review Committee but has not yet been listed.

***** Although sulfluramid is not specially listed under the Stockholm Convention it is regarded by the Stockholm COP as being listed because it is derived from and breaks down into substances that are listed (PFOS and salts).

****** This list uses the same classification for hydrogen cyanide as for calcium cyanide. According to WHO (2019) Calcium cyanide reacts with moisture to produce hydrogen cyanide gas. Hydrogen cyanide is fatal if swallowed, in contact with skin or if inhaled. In liquid form this substance is also fatal if swallowed or in contact with skin.



PHASE-OUT LIST

No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity			Coffee Relevant		
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment		Very Toxic to Aquatic Organisms	Hazardous to Ecosystem Services 'EPA Highly Toxic Bees'
1	Carbaryl	63-25-2	1					1				1	Yes
2	Carbendazim	10605-21-7			1	1							Yes
3	Chlorantraniliprole	500008-45-7								1	1		Yes
4	Chlorpyrifos	2921-88-2				1						1	Yes
5	Cypermethrin	52315-07-8										1	Yes
6	Cypermethrin, alpha	67375-30-8										1	Yes
7	Cypermethrin, beta	65731-84-2										1	Yes
8	Cyproconazole	94361-06-5				1							Yes
9	Deltamethrin	52918-63-5						1				1	Yes
10	Dimethoate	60-51-5										1	Yes
11	Diuron	330-54-1	1										Yes
12	Epoxiconazole	133855-98-8	1			1		1					Yes
13	Esfenvalerate	66230-04-4										1	Yes
14	Etofenprox; Ethofenprox	80844-07-1								1	1	1	Yes
15	Fenitrothion	122-14-5						1				1	Yes
16	Fipronil	120068-37-3										1	Yes
17	Flupyradifurone	951659-40-8										1	Yes
18	Glyphosate	1071-83-6	1										Yes
19	Indoxacarb	173584-44-6										1	Yes
20	Lufenuron	103055-07-8							1	1	1		Yes
21	Malathion	121-75-5	1									1	Yes
22	Mancozeb	8018-01-7		1		1	1	1					Yes
23	Metaflumizone	139968-49-3							1	1		1	Yes



PHASE-OUT LIST

No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity			Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment		Very Toxic to Aquatic Organisms
24	Permethrin	52645-53-1	1								1	Yes
25	Profenofos	41198-08-7									1	Yes
26	Propargite	2312-35-8	1						1		1	Yes
27	Propiconazole	60207-90-1				1						Yes
28	Spinosad	168316-95-8									1	Yes
29	Tetraconazole	112281-77-3						1				Yes
30	Thiamethoxam	153719-23-4									1	Yes
31	Triadimenol	55219-65-3				1						Yes
32	Boric acid	10043-35-3				1		1				Yes
33	Diazinon	333-41-5	1								1	Yes
34	Borax; Borate salts	1303-96-4				1						No
35	1,3-dichloropropene	542-75-6		1								No
36	2,4-D	94-75-7						1				No
37	Acephate	30560-19-1									1	No
38	Acetochlor	34256-82-1						1				No
39	Acifluorfen, sodium	62476-59-9		1								No
40	Acrinathrin	101007-06-1									1	No
41	Alanycarb	83130-01-2									1	No
42	Amisulbrom	348635-87-0								1	1	No
43	Amitrole	61-82-5						1				No
44	Anthraquinone	84-65-1		1		1						No
45	Azafenidin	68049-83-2				1						No
46	Azamethiphos	35575-96-3									1	No
47	Bendiocarb	22781-23-3									1	No



PHASE-OUT LIST

No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity			Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment		Very Toxic to Aquatic Organisms
48	Benfuracarb	82560-54-1									1	No
49	Bensulide	741-58-2									1	No
50	Benthiavalicarb-isopropyl	177406-68-7	1									No
51	Bifenthrin	82657-04-3						1			1	No
52	Bioresmethrin	28434-01-7				1					1	No
53	Bromoxynil heptanoate	56634-95-8				1			1		1	No
54	Bromoxynil octanoate	1689-99-2				1			1		1	No
55	Butachlor	23184-66-9	1									No
56	Butocarboxim	34681-10-2									1	No
57	Captan	133-06-2	1					1				No
58	Carbetamide	16118-49-3				1						No
59	Chinomethionat; Oxythioquinox	2439-01-2	1									No
60	Chlorfenapyr	122453-73-0									1	No
61	Chlorfluazuron	71422-67-8							1		1	No
62	Chloroform	67-66-3	1									No
63	Chlorophene; 2-benzyl-4-chlorophenol	120-32-1						1				No
64	Chlorotoluron	15545-48-9						1				No
65	Chlorpropham	101-21-3						1				No
66	Chlorpyrifos-methyl	5598-13-0				1					1	No



PHASE-OUT LIST

No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity				Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment	Very Toxic to Aquatic Organisms		Hazardous to Ecosystem Services 'EPA Highly Toxic Bees'
67	Cholecalciferol	67-97-0				1							No
68	Climbazole	38083-17-9										1	No
69	Clothianidin	210880-92-5										1	No
70	Cyanamide	420-04-2						1					No
71	Cyanazine	21725-46-2						1					No
72	Cyhalothrin	68085-85-8										1	No
73	Cyhalothrin, gamma	76703-62-3										1	No
74	Cyhexatin	13121-70-5							1		1		No
75	Daminozide	1596-84-5		1									No
76	Diafenthiuron	80060-09-9										1	No
77	Dichlobenil	1194-65-6						1					No
78	Dichlorprop	120-36-5				1							No
79	Diclofop-methyl	51338-27-3		1									No
80	Dimoxystrobin	149961-52-4						1		1	1		No
81	Dinocap	39300-45-3				1							No
82	Dinotefuran	165252-70-0										1	No
83	Emamectin benzoate	155569-91-8								1	1	1	No
84	Ethirimol	23947-60-6										1	No
85	Ethylene thiourea	96-45-7		1		1		1					No
86	Fenazaquin	120928-09-8										1	No
87	Fenbuconazole	114369-43-6						1					No
88	Fenoxycarb	72490-01-8		1								1	No
89	Fenvalerate	51630-58-1										1	No



PHASE-OUT LIST

No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity			Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment		Very Toxic to Aquatic Organisms
90	Fluazifop-butyl	69806-50-4				1						No
91	Fluazolate	174514-07-9							1		1	No
92	Flubendiamide	272451-65-7								1	1	No
93	Flufenoxuron	101463-69-8							1		1	No
94	Flumetralin	62924-70-3							1		1	No
95	Flumioxazin	103361-09-7				1						No
96	Flusilazole	85509-19-9				1						No
97	Fluthiacet-methyl	117337-19-6		1								No
98	Forchlorfenuron	68157-60-8							1			No
99	Fosthiazate	98886-44-3									1	No
100	Furfural	98-01-1		1								No
101	Furilazole	121776-33-8		1								No
102	Glufosinate-ammonium	77182-82-2				1						No
103	Halfenprox	111872-58-3							1		1	No
104	Halosulfuron-methyl	100784-20-1				1						No
105	Haloxypop-methyl (un-stated stereochemistry)	69806-40-2		1								No
106	Hexaflumuron	86479-06-3									1	No
107	Hexythiazox	78587-05-0		1								No
108	Imazalil	35554-44-0		1								No
109	Imazalil sulfate	58594-72-2		1								No
110	Imidacloprid	138261-41-3									1	No
111	Imiprothrin	72963-72-5									1	No



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No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity				Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment	Very Toxic to Aquatic Organisms		Hazardous to Ecosystem Services 'EPA Highly Toxic Bees'
112	Iprodione	36734-19-7	1										No
113	Iprovalicarb	140923-17-7	1										No
114	Isopyrazam	881685-58-1	1							1	1		No
115	Isoxaflutole	141112-29-0	1										No
116	Kresoxim-methyl	143390-89-0	1										No
117	Lactofen	77501-63-4	1										No
118	Linuron	330-55-2				1		1					No
119	Maneb	12427-38-2	1					1					No
120	Mecoprop; MCP	7085-19-0						1					No
121	Mepanipyrim	110235-47-7	1										No
122	Meptyldinocap	131-72-6				1							No
123	Metam-potassium	137-41-7	1										No
124	Metam-sodium	137-42-8	1					1					No
125	Methabenzthiazuron	18691-97-9										1	No
126	Metiram	9006-42-2	1					1					No
127	Metribuzin	21087-64-9						1					No
128	Milbemectin	51596-10-2										1	No
129	Molinate	2212-67-1						1					No
130	MON 4660; AD 67	71526-07-3	1										No
131	Naled	300-76-5										1	No
132	Nitenpyram	150824-47-8										1	No
133	Nitrobenzene	98-95-3				1		1					No
134	Noviflumuron	121451-02-3	1										No
135	Oryzalin	19044-88-3	1										No



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No.	Name of active ingredient of pesticide	CAS Number	Probable Carcinogens		Chronic Toxicity			Environmental Toxicity				Coffee Relevant	
			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment	Very Toxic to Aquatic Organisms		Hazardous to Ecosystem Services 'EPA Highly Toxic Bees'
136	Oxadiazon	19666-30-9	1										No
137	Oxyfluorfen	42874-03-3	1										No
138	Pendimethalin	40487-42-1							1	1			No
139	Phenthoate	2597-03-7										1	No
140	Phosmet	732-11-6										1	No
141	Pirimicarb	23103-98-2	1							1	1		No
142	Pirimiphos-methyl	29232-93-7										1	No
143	Prallethrin	23031-36-9										1	No
144	Procymidone	32809-16-8	1					1					No
145	Profoxydim	139001-49-3						1					No
146	Propachlor	1918-16-7	1										No
147	Propineb	12071-83-9	1										No
148	Propoxur	114-26-1	1									1	No
149	Prothiofos	34643-46-4							1		1		No
150	Pymetrozine	123312-89-0	1										No
151	Pyraclofos	77458-01-6										1	No
152	Pyraflufen-ethyl	129630-19-9	1										No
153	Pyrazachlor	6814-58-0	1										No
154	Pyrazophos	13457-18-6										1	No
155	Pyrethrins, Pyrethrum extract	8003-34-7										1	No
156	Pyridaben	96489-71-3										1	No
157	Pyridalyl	179101-81-6							1	1	1		No
158	Pyridiphenthion	119-12-0										1	No



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			IARC	EPA	GHS mutagen (1A, 1B)	GHS reproductive toxin (1A, 1B)	EU Endocrine Disrupting Chemical	GHS C2 & R2	Very Bioaccumulative	Very Persistent in Water, Soil or Sediment		Very Toxic to Aquatic Organisms
159	Quinalphos	13593-03-8						1			1	No
160	Quinoclamine	2797-51-5									1	No
161	Quinolin-8-ol; 8-hydroxy-quinoline	148-24-3				1						No
162	Quinoxifen	124495-18-7							1		1	No
163	Quizalofop-p-tefuryl	119738-06-6						1				No
164	Resmethrin	10453-86-8		1				1			1	No
165	Rotenone	83-79-4									1	No
166	Silafluofen	105024-66-6				1					1	No
167	Simazine	122-34-9						1				No
168	Spinetoram	187166-15-0									1	No
169	Sulfoxaflor	946578-00-3									1	No
170	Temephos	3383-96-8									1	No
171	Tepraloxydim	149979-41-9						1				No
172	Terrazole; Etridiazole	2593-15-9		1								No
173	Tetrachlorvinphos	22248-79-9		1							1	No
174	Tetramethrin	7696-12-0									1	No
175	Thiabendazole	148-79-8		1		1						No
176	Thiacloprid	111988-49-9		1		1						No
177	Thiodicarb	59669-26-0		1							1	No
178	Thiophanate-methyl	23564-05-8		1								No
179	Thiourea	62-56-6						1				No
180	Tioxazafen	330459-31-9		1								No
181	Tolfenpyrad	129558-76-5							1		1	No



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182	Tralomethrin	66841-25-6									1	No
183	Tri-allate	2303-17-5								1	1	No
184	Tribufos, Tribuphos	78-48-8		1								No
185	Trichloroacetic acid	76-03-9						1				No
186	Tridemorph	81412-43-3				1						No
187	Triflumizole	99387-89-0				1						No
188	Trifluralin	1582-09-8						1	1			No
189	Validamycin	37248-47-8									1	No
190	Vinclozolin	50471-44-8				1		1				No
191	XMC	2655-14-3									1	No

Notes on Phase-out List:

EPA prob likel carc: Italic "1" stands for classified by EPA as "Likely to be Carcinogenic to Humans: At High Doses"

GHS: Global Harmonised System of Classification and Labelling of Chemicals



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