



INTERNATIONAL COFFEE ORGANIZATION
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Maximum Residue Limits

Background

1. In March 2010 the International Coffee Council requested the Secretariat to keep Members informed about food safety issues, particularly regarding the Maximum Residue Limits (MRLs) of pesticides applicable to coffee, and in September 2010 the Executive Director committed to preparing a report on the same. Members were therefore requested to send details of MRLs for pesticides used in the coffee production process (see documents ED-2100/10, ED-2111/11, ED-2124/11, ED-2124/11 Rev. 1 and ED-2143/12).

2. Replies have now been received from Brazil, Colombia, Costa Rica, Cuba, Ecuador, the EU, Guatemala, Haiti, Indonesia, Kenya, Rwanda and the USA. In addition, information has been made available for one former Member, Japan. This report consolidates this information to provide a database of 504 chemicals, showing the MRLs in each country where such information is available.

Action

The Council is requested to consider this document.

MAXIMUM RESIDUE LIMITS

1. This report contains information on the Maximum Residue Limits (MRLs) of pesticides applicable to coffee in selected countries. Table 1 compares the MRLs for the 21 pesticides covered by the *Codex Alimentarius*. The Codex was established in 1963 by the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO) to provide harmonized international food standards, guidelines and codes of practice. It has 186 members and 215 observers. MRLs for pesticides are elaborated by the Codex Committee on Pesticides Residue, and there are 21 MRLs listed for coffee as of December 2012. However, the Committee considers new limits on a yearly basis, so Members are advised to check directly with the Codex. Further information is available at www.codexalimentarius.net.

2. For each pesticide in Table 1, the highest MRL is highlighted in bold, and the lowest in italics. To date, Colombia, Costa Rica, Cuba and Guatemala have notified the Secretariat that they follow the guidelines of the Codex for coffee. Ecuador uses a combination of standards from the Codex, the US Environmental Protection Agency, the EU and Japan. Haiti and Rwanda both reported negligible use of pesticides. Table 2 shows the lengthier list of 504 pesticides and their specific MRLs in the EU, Japan and the USA, as the largest import markets, and Brazil, Ecuador, Kenya and Indonesia, who provided specific information.

3. Furthermore, several pesticides are denoted in Table 2 as being regulated by the Stockholm Convention on Persistent Organic Pollutants (POPs). The Stockholm Convention was adopted in 2001 and entered into force in 2004. It has 152 Parties and 178 Signatories, and requires parties to eliminate or reduce the release of POPs into the environment. It covers three classes of chemicals: those in Annex A are to be eliminated, those in Annex B are to be reduced, and those listed in Annex C are to avoid unintentional release. Twelve initial POPs were listed in 2001, with nine added in 2009. In 2011, the pesticide Endosulfan was added to Annex A for elimination. This ban became effective on 27 October 2012, although certain specific exemptions can be granted under the terms of the Convention. Further information is available at <http://chm.pops.int>.

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Table 1: Comparison between *Codex Alimentarius* and selected national standards

Pesticide	Codex Alimentarius	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Aldicarb *	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Boscalid	0.05	0.50	0.05		0.05			
Carbendazim and benomyl	0.10	0.10	0.10					
Carbofuran	1.00	0.05	1.00	0.10	0.10	0.10	0.10	0.10
Chlorpyrifos	0.05	0.20	0.05	0.10	0.05	0.05	0.05	0.05
Clothianidin	0.05	0.05	0.04					
Cypermethrin	0.05	0.10	0.05			0.05	0.05	0.05
Disulfoton	0.20	0.05	0.20	0.20	0.10		0.20	
Endosulfan *	0.20	0.10	0.10		0.05	0.10	0.10	0.10
Haloxypop	0.02	0.05						
Imidacloprid	1.00	1.00	0.70	0.80	0.07			
Permethrin	0.05	0.10	0.05		0.01		0.05	
Phorate	0.05	0.10	0.02	0.02	0.05			
Propiconazole	0.02	0.10	0.10		0.05		0.10	
Pyraclostrobin	0.30	0.20	0.30		0.50			
Spirodiclofen	0.03	0.05			0.03			
Tebuconazole	0.10	0.10	0.20	0.30	0.20			
Terbufos	0.05	0.01	0.05	0.05	0.05		0.05	
Thiamethoxam	0.20	0.20	0.04	0.05	0.02			
Triadimefon	0.50		0.05		0.10	0.05	0.05	0.05
Triadimenol	0.50		0.10		0.50	0.10	0.10	0.10

In mg/kg

A blank means information is not available

* Listed in Stockholm Convention Annex A

Table 2: Maximum Residue Limits of all pesticides

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
1,1-dichloro-2,2-bis(4-ethylphenyl)ethane	0.100						
1,3-Dichloropropene	0.050						
1-Methylcyclopropene	0.020						
1-Naphthylacetamide	0.050						
1-Naphthylacetic acid	0.050						
2,4,5-T	0.050	N.D.			N.D.		
2,4-DB	0.100						
2,4-D	0.100			0.100			
2-phenylphenol	0.100						
4-CPA		0.020					
Abamectin	0.020	0.008		0.002			
Acephate	0.050						
Acequinocyl	0.020	0.020					
Acetamiprid	0.100			0.200			
Acetochlor	0.010			0.200			
Acibenzolar-S-methyl	0.050						
Aclonifen	0.050						
Acrinathrin	0.050						
Alachlor	0.050			0.050			
Aldicarb *	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Aldrin and Dieldrin	0.020	0.100					
Ametoctradin	0.010						
Amidosulfuron	0.050						
Aminopyralid	0.020						
Amisulbrom	0.010						
Amitraz	0.100						
Amitrole	0.020	N.D.			N.D.		
Anilazine	0.050			1.000			
Aramite	0.100						
Asulam	0.050	0.020					
Atrazine	0.100						
Azadirachtin	0.010						
Azimsulfuron	0.100						
Azinphos-ethyl	0.050						
Azinphos-methyl	0.100						
Azocyclotin and Cyhexatin	2.000	N.D.			N.D.		
Azoxystrobin	0.100	0.050		0.050			
Barban	0.100						
Beflubutamid	0.100						
Benalaxyl	0.100						
Benfluralin	0.050						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Benfuracarb	0.100						
Bensulfuron-Methyl		0.020					
Bensulide		0.030					
Bentazone	0.100	0.020					
Benthiavalicarb	0.010						
Benzyladenine		0.020					
Bifenazate	0.020						
Bifenox	0.050						
Bifenthrin	0.100						
Bilanafos		0.004					
Binapacryl	0.100						
Bioresmethrin		0.100			0.100		
Biphenyl	0.050						
Bitertanol	0.100						
Bixafen	0.010						
Boscalid	0.500	0.050		0.050			
Brodifacoum		0.001					
Bromide ion	70.000	60.000	75.000	50.000			
Bromophos-ethyl	0.100						
Bromopropylate	0.050						
Bromoxynil	0.100						
Bromuconazole	0.050						
Bupirimate	0.050						
Buprofezin	0.050						
Butralin	0.020						
Butylate	0.050						
Cadusafos	0.010			0.050			
Camphechlor (Toxaphene) *	0.100						
Captafol	0.100	N.D.	X		N.D.		
Captan	0.050						
Carbadox	X	N.D.					
Carbaryl	0.100						
Carbendazim and benomyl	0.100	0.100					
Carbetamide	0.050						
Carbofuran	0.050	1.000	0.100	0.100		0.100	0.100
Carbosulfan	0.100						
Carboxin	0.050						
Carfentrazone-ethyl	0.020	0.100	0.100	0.050			
Chloramphenicol		N.D.					
Chlorantraniliprole	0.020						
Chlorbenside	0.100						
Chlorbufam	0.100						
Chlordane *	0.020						
Chlordecone *	0.020						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Chlorfenapyr	0.100						
Chlorfenson	0.100						
Chlorfenvinphos	0.050						
Chlorfluazuron		0.050					
Chloridazon	0.100						
Chloromequat	0.100						
Chlorobenzilate	0.100						
Chloropicrin	0.020						
Chlorothalonil	0.100	0.200	0.200	0.200	0.200		
Chlorotoluron	0.050						
Chloroxuron	0.100						
Chlorpromazine		N.D.					
Chlorpropham	0.100						
Chlorpyrifos	0.200	0.050	0.100	0.050		0.050	0.050
Chlorpyrifos-methyl	0.100						
Chlorsulfuron	0.050						
Chlorthal-dimethyl	0.010						
Chlorthiamid	0.050						
Chlozolate	0.100						
Chromafenozide	0.020						
Cinidon-ethyl	0.100						
Clethodim	0.100						
Clodinafop	0.050	0.020					
Clofentezine	0.050	0.020					
Clomazone	0.020	0.020					
Clopyralid	0.500						
Clothianidin	0.050	0.040					
Copper compounds	50.000						
Copper nonylphenosulfonate		0.040					
Copper telephthalate		0.500					
Coumaphos		N.D.					
Cyanamide	0.100						
Cyazofamid	0.020						
Cyclanilide	0.100						
Cycloprothrin		0.020					
Cycloxydim	0.050	0.050					
Cyflufenamid	0.050						
Cyfluthrin	0.100	0.020		0.010			
Cyhalofop-butyl	0.050						
Cymoxanil	0.050	0.050					
Cypermethrin	0.100	0.050			0.050	0.050	0.050
Cyproconazole	0.100	0.100	0.100	0.100	0.100		
Cyprodinil	0.050						
Cyromazine	0.050						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Dalapon (2,2-Dichloropropanoic acid)	0.100	0.050					
Daminozide	0.100	N.D.			N.D.		
Dazomet	0.020						
DBEDC		0.500					
DDT †	1.000						
Deltamethrin (cis-deltamethrin)	2.000	2.000		1.000	2.000	2.000	
Demeton-S-Methyl		0.050					
Desmedipham	0.100						
Diafenthiuron		0.020					
Diallate	0.100						
Diazinon	0.020						
Dicamba	0.050						
Dichlobenil	0.050						
Dichlorprop	0.050						
Dichlorvos	0.020	0.200			0.200	2.000	
Diclofop	0.050						
Diclomezine		0.020					
Dicloran	0.010						
Dicofol	0.050						
Diethofencarb	0.050						
Diethylstilbestrol		N.D.					
Difenoconazole	0.050			0.500			
Difenzoquat		0.050					
Difflubenzuron	0.050	0.050					
Difflufenican	0.050	0.002					
Difflufenzopyr		0.050					
Dimethachlor	0.020						
Dimethenamid-p	0.020						
Dimethipin	0.100	0.040					
Dimethoate	0.050						
Dimethomorph	0.050						
Dimetridazole		N.D.					
Dimoxystrobin	0.010						
Diniconazole	0.050						
Dinocap	0.100						
Dinoseb	0.100						
Dinoterb	0.100						
Dioxathion	0.100						
Diphenylamine	0.050						
Diquat	0.100	0.050	0.050	0.100			
Disulfoton	0.050	0.200	0.200	0.100		0.200	
Dithianon	0.010						
Dithiocarbamates	0.100	5.000					

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Diuron	0.100	0.020		1.000			
DNOC	0.100						
Dodine	0.200						
Emamectin	0.020						
Endosulfan *	0.100	0.100		0.050		0.100	0.100
Endrin *	0.010	N.D.					
Epoxiconazole	0.050		0.050	0.100			
EPTC (ethyl dipropylthiocarbamate)	0.050						
Ethalfuralin	0.020						
Ethametsulfuron-methyl	0.020						
Ethephon	0.100	0.100	0.500	1.000			
Ethion	0.050			0.050			0.100
Ethirimol	0.050						
Ethofumesate	0.100						
Ethoprophos	0.020	0.005					
Ethoxyquin	0.050	0.050					
Ethoxysulfuron	0.100						
Ethyclozate		0.050					
Ethylene dibromide (1,2-dibromoethane)	0.020	N.D.					
Ethylene dichloride (1,2-dichloroethane)	0.020						
Ethylene oxide	0.200						
Etofenprox	0.010						
Etoxazole	0.050						
Etridiazole	0.050						
Famoxadone	0.050						
Fenamidone	0.050						
Fenamiphos	0.050			0.100		0.100	
Fenarimol	0.050						
Fenazaquin	0.010						
Fenbuconazole	0.050						
Fenbutatin oxide	0.100	0.050					
Fenchlorphos	0.100						
Fenhexamid	0.100						
Fenitrothion	0.020			0.100			
Fenoxaprop-P	0.100						
Fenoxycarb	0.050	0.050					
Fenpropathrin	0.020			0.500			
Fenpropidin	0.050						
Fenpropimorph	0.100						
Fenpyrazamine	0.010						
Fenpyroximate	0.100	0.020		0.050			
Fenthion	0.050			0.100			0.100

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Fentin acetate	0.100	0.100		0.100		0.100	
Fentin hydroxide	0.100	0.100		0.100		0.100	
Fenvalerate and Esfenvalerate	0.050			0.050			
Fipronil	0.005	0.002					
Flazasulfuron	0.020	0.020		0.030			
Flonicamid	0.050						
Florasulam	0.100						
Florchlorfenuron	0.050						
Fluazifop-P-butyl	0.100	0.100	0.100	0.030	0.100		
Fluazinam	0.050						
Flubendiamide	0.020						
Flucycloxuron	0.050						
Flucythrinate	0.100	0.050			0.050		
Fludioxonil	0.050						
Flufenacet	0.050						
Flufenoxuron	0.050						
Flufenzin	0.050						
Flumioxazine	0.100			0.050			
Fluometuron	0.020	0.020					
Fluopicolide	0.020						
Fluopyram	0.010						
Fluoride compounds			15.000				
Fluoride ion	5.000						
Fluoroglycofene	0.020						
Fluoroimide		0.040					
Fluoxastrobin	0.100						
Flupyrsulfuron-methyl	0.050						
Fluquinconazole	0.050			0.070			
Flurochloridone	0.100						
Fluroxypyr	0.100						
Flurprimidole	0.020						
Flurtamone	0.050						
Flusilazole	0.050						
Flutolanil	0.050						
Flutriafol	0.050			0.050			
Fluxapyroxad	0.010						
Folpet	0.050						
Fomesafen	0.050						
Foramsulfuron	0.050						
Forchlorfenuron	0.050						
Formetanate	0.050						
Formothion	0.050						
Fosetyl-Al	5.000	0.500		0.050			
Fosthiazate	0.050			0.100			

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Fuberidazole	0.050						
Furaltadone		N.D.					
Furametpyr		0.100					
Furathiocarb	0.100						
Furazolidone		N.D.					
Furfural	1.000						
Gibberellic acid	5.000						
Glufosinate-ammonium	0.100	0.050		0.050			
Glyphosates	0.100	1.000	1.000	1.000	1.000		
Guazatine	0.100						
Halosulfuron methyl	0.020						
Haloxyfop	0.050						
Heptachlor *	0.020						
Hexachlorobenzene * ‡	0.020						
Hexachlorociclohexane	0.020						
Hexaconazole	0.100	0.050		0.050	0.050		
Hexaflumuron		0.020					
Hexythiazox	0.050			0.100			
Hydrogen cyanide		1.000					
Hydrogen phosphide		0.060					
Hymexazol	0.050	0.020					
Imazalil	0.100						
Imazamox	0.100						
Imazapic	0.010						
Imazaquin	0.050	0.050					
Imazethapyr ammonium		0.050					
Imazosulfuron	0.020						
Imidacloprid	1.000	0.700	0.800	0.070			
Iminoctadine		0.020		0.100			
Indoxacarb	0.050						
Iodosulfuron-methyl	0.050						
Ioxynil	0.100						
Ipconazole	0.020						
Iprodione	0.100	0.050		2.000			
Iprovalicarb	0.100						
Isoprothiolane	0.010						
Isoproturon	0.100						
Isopyrazam	0.010						
Isouron		0.020					
Isoxaben	0.020						
Isoxaflutole	0.100						
Kresoxim-methyl	0.100			0.050			
Lactofen	0.020						
Lambda-Cyhalothrin	0.050			0.050			

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Lenacil	0.100						
Lindane *	0.100	0.002					
Linuron	0.100	0.020					
Lufenuron	0.020	0.020		0.050			
Malachite Green		N.D.					
Malathion	0.020	0.500		0.010			
Maleic hydrazide	0.500	0.200					
Mandipropamid	0.020						
MCPA and MCPB	0.100						
Mecarbam	0.100						
Mecoprop	0.100						
Mepanipyrim	0.020						
Mepiquat	0.100						
Mepronil	0.100						
Meptyldinocap	0.100						
Mercury compounds	0.020						
Mesosulfuron-methyl	0.020						
Mesotrione	0.100						
Metaflumizone	0.100						
Metalaxyl and metalaxyl-M	0.100						
Metaldehyde	0.050						
Metamitron	0.100						
Metazachlor	0.200						
Metconazole	0.020			0.200			
Methabenzthiazuron	0.050						
Methacrifos	0.100						
Methamidophos	0.020						
Methidathion	0.100	1.000				0.100	
Methiocarb	0.100						
Metholachlor and metholachlor-S	0.100						
Methomyl and Thiodicarb	0.100	1.000					
Methoprene	0.050						
Methoxychlor	0.100						
Methoxyfenozide	0.050						
Metosulam	0.010						
Metrafenone	0.050						
Metribuzin	0.100			0.100			
Metronidazole		N.D.					
Metsulfuron-methyl	0.100						
Mevinphos	0.020						
Milbemectin	0.100	0.020					
Molinate	0.100	0.020					
Monocrotophos	0.100					0.100	
Monolinuron	0.100						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Monuron	0.050						
Myclobutanyl	0.050			0.100			
Napropamide	0.050	0.100	0.100				
Nicosulfuron	0.050						
Nitenpyram		0.030					
Nitrofen	0.020						
Nitrofurantoin		N.D.					
Nitrofurazone		N.D.					
Novaluron	0.010			0.500			
Orthosulfamuron	0.010						
Oryzalin	0.020	0.100		0.020			
Oxadiargyl	0.050						
Oxadiazon	0.050						
Oxadixyl	0.020						
Oxamyl	0.020	0.100			0.100		
Oxasulfuron	0.100						
Oxaziclomefon		0.020					
Oxycarboxin	0.050						
Oxydemeton-methyl	0.050						
Oxyfluorfen	0.050	0.050	0.050	0.050			
Paclobutrazol	0.020						
Paraquat	0.050	0.050	0.050	0.050			
Parathion	0.100						
Parathion-methyl	0.050						
Penconazole	0.100						
Pencycuron	0.050	0.100					
Pendimethalin	0.100			0.100			
Penoxsulam	0.020						
Permethrin	0.100	0.050		0.010	0.050	0.050	
Pethoxamid	0.020						
Phenmedipham	0.100						
Phenothrin	0.050	0.020					
Phorate	0.100	0.020	0.020	0.050			
Phosalone	0.100						
Phosmet	0.100						
Phosphamidon	0.020						
Phosphines and phosphides	0.050		0.100	0.100			
Phosphorodithioate			0.300				
Phoxim	0.100	0.020					
Picloram	0.010						
Picolinafen	0.100						
Picoxystrobin	0.100						
Pindone		0.001					
Pinoxaden	0.050						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Pirimicarb	0.050						
Pirimiphos-methyl	0.050						
Probenazole		0.030					
Prochloraz	0.200	0.200			0.200	0.200	
Procymidone	0.100						
Profenofos	0.100			0.030			
Profoxydim	0.100						
Prohexadione	0.100	0.020					
Propachlor	0.050						
Propamocarb	0.200						
Propanil	0.100						
Propaquizafop	0.050						
Propargite	0.020						
Propham	0.100	N.D.					
Propiconazole	0.100	0.100		0.050	0.020	0.100	
Propineb	0.100						
Propisochlor	0.010						
Propoxur	0.100						
Propoxycarbazone	0.050						
Propyzamide	0.050						
Proquinazid	0.050						
Prosulfocarb	0.050						
Prosulfuron	0.100						
Prothioconazole	0.020						
Pymetrozine	0.100						
Pyraclostrobin	0.200	0.300		0.500			
Pyraflufen-ethyl	0.050						
Pyrasulfotole	0.020						
Pyrazolynate		0.020					
Pyrazophos	0.100						
Pyrethrins	0.500	0.050					
Pyridaben	0.050						
Pyridalyl	0.020						
Pyridate	0.100						
Pyrimethanil	0.100						
Pyriproxyfen	0.050		0.100	0.010			
Pyroxsulam	0.020						
Quinalphos	0.100						
Quinclorac	0.100						
Quinmerac	0.100						
Quinoxifen	0.050						
Quintozene	0.050						
Quizalofop	0.050						
Resmethrin	0.200						

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Rimsulfuron	0.100						
Ronidazole		N.D.					
Rotenone	0.020						
Sec-Butylamine		0.100					
Silthiofam	0.100						
Simazine	0.050			0.020			
Spinetoram (XDE-175)	0.100						
Spinosad	0.020			0.200			
Spirodiclofen	0.050			0.030			
Spiromesifen	0.020						
Spirotetramat	0.100						
Spiroxamine	0.100						
Sulcotrione	0.050						
Sulfentrazone		0.050		0.500			
Sulfosulfuron	0.100						
Sulfuryl fluoride	0.020	1.000	1.000				
Sulphur	5.000						
Tau-Fluvalinate	0.010						
Tebuconazole	0.100	0.200	0.300	0.200			
Tebufenozide	0.100	0.050					
Tebufenpyrad	0.100						
Tebuthiuron		0.020					
Tecnazene	0.100						
Teflubenzuron	0.050	0.020		0.500			
Tefluthrin	0.050						
Tembotrione	0.050						
TEPP	0.020						
Tepraloxydim	0.100	0.050					
Terbufos	0.010	0.050	0.050	0.050		0.050	
Terbutylazine	0.050						
Tetraconazole	0.020			0.080			
Tetradifon	0.050						
Thiabendazole	0.100						
Thiacloprid	0.050						
Thiamethoxam	0.200	0.040	0.050	0.020			
Thifensulfuron-methyl	0.100						
Thiobencarb	0.100						
Thiophanate-methyl	0.100			0.030			
Thiram	0.200						
Tolclofos-methyl	0.100						
Tolyfluanid	0.100						
Topramezone	0.020						
Tralkoxydim	0.050						
Triadimefon	0.200	0.050		0.100		0.050	0.050

Pesticide	EU	Japan	USA	Brazil	Ecuador	Indonesia	Kenya
Triadimenol	0.200	0.100		0.500		0.100	0.100
Tri-allate	0.100						
Triasulfuron	0.100						
Triazophos	0.020	N.D.		0.010	N.D.	0.050	
Tribenuron-methyl	0.020						
Trichlamide		0.100					
Trichlorfon	0.100			0.050			
Triclopyr	0.100	0.030					
Tricyclazole	0.050	0.020					
Tridemorph	0.100						
Trifloxystrobin	0.050			0.050			
Triflumizole	0.100	0.050					
Triflumuron	0.050	0.020					
Trifluralin	0.100						
Triflusulfuron	0.050						
Triforine	0.050						
Trimethyl-sulfonium cation	0.050						
Trinexapac	0.050	0.020					
Triticonazole	0.020						
Tritosulfuron	0.020						
Valifenalate	0.020						
Vamidothion		0.020					
Vinclozolin	0.100						
Warfarin		0.001					
Ziram	0.200						
Zoxamide	0.050						

In mg/kg

A blank means information is not available

* Listed in Stockholm Convention Annex A

† Listed in Stockholm Convention Annex B

‡ Listed in Stockholm Convention Annex C

N.D. – Not to be detected

X – Banned at any level