

2021 EPA Human Health Benchmarks for Pesticides								
Common Name	Acute or One Day PAD (mg/kg/day)	^{a,f} Acute or One Day HHBPs (ppb)	Acute HHBP Sensitive Lifestage/ Population	Chronic or Lifetime PAD (mg/kg/day)	^{b,f} Chronic or Lifetime HHBPs (ppb)	Chronic HHBP Sensitive Lifestage/ Population	^c Cancer Quantification (Q1) Values (CSF) (mg/kg/day) ⁻¹	^{d,e} Carcinogenic HHBP (E-6 to E-4) ppb
1,2,4- Triazole	0.03	200	Children	0.005	30	General Population	-	-
2, 4 - DB DMA	0.15	4200	Females 13-49 yrs	0.15	890	General Population	-	-
2,4-DP-p + salt & ester	1.25	8330	Children	0.06	400	General Population	-	-
2,6-Dichlorobenzamide (BAM)	0.1	700	Children	0.045	270	General Population	-	-
3,5-Dibromo-4-hydroxybenzonitrile butyrate	0.08	500	Children	0.015	89	General Population	-	-
4-Chlorophenoxyacetic acid	--	--	--	1.32	7810	General Population	-	-
Abamectin	0.0025	17	Children	0.0025	15	General Population	-	-
Acephate	0.0003	2	Children	0.0003	2	Females 13-49 yrs	-	-
Acequinocyl	0.073	490	Children	0.027	160	General Population	-	-
Acetamiprid	0.1	700	Children	0.071	420	General Population	-	-
Acetochlor	--	--	--	0.02	100	General Population	-	-
Acibenzolar-S-methyl	0.082	550	Children	0.082	460	Females 13-49 yrs	-	-
ADBAC ^g	--	--	--	0.44	2600	General Population	-	-
Afidopyropen	0.16	4500	Females 13-49 yrs	0.08	500	General Population	-	-
Allethrins ^h	0.03	200	Children	0.008	50	General Population	-	-
Alpha-Cypermethrin	0.005	30	Children	--	--	--	-	-
Aluminum Phosphide	0.018	120	Children	0.0113	66.9	General Population	-	-
Amicarbazone	0.1	700	Children	0.023	140	General Population	-	-
Aminocyclopyrachlor + ester & salt	--	--	--	2.79	16500	General Population	-	-
Aminopyralid + salts	--	--	--	0.5	3000	General Population	-	-
Amisulbrom	2	10000	Children	0.54	3200	General Population	-	-
Amitraz	0.0125	83.3	Children	0.0005	3	General Population	-	-
Anthraquinone	--	--	--	--	--	--	0.0617	0.48-48.0
Aquashade	--	--	--	5	30000	General Population	-	-
Asulam + sodium salt	--	--	--	0.36	2100	General Population	-	-
Azinphos-methyl ^g	0.003	20	Children	0.0015	8.9	General Population	-	-
Azoxystrobin	0.67	4500	Children	0.18	1070	General Population	-	-
Benalaxyl-M	--	--	--	0.02	100	General Population	0.0059	5.01-501
Benfluralin	--	--	--	0.005	30	General Population	-	-
Benomyl	0.025	170	Children	0.013	77	General Population	0.00239	12.4-1240
Bensulfuron methyl	--	--	--	0.2	1000	General Population	-	-
Bensulide	0.15	1000	Children	0.005	30	General Population	-	-
Benthiavalicarb-isopropyl	--	--	--	0.099	590	General Population	0.062795	0.47115-47.115
Benzene Sulfonic Acid	--	--	--	0.5	3000	General Population	-	-

Benzobicyclon	--	--	--	0.636	3760	General Population	-	-
Benzobicyclon (Metabolite B)	0.00027	1.8	Children	0.00004	0.2	General Population	-	-
Benzovindiflupyr	0.1	700	Children	0.082	490	General Population	-	-
Beta Cyfluthrin	0.0117	78	Children	--	--	--	-	-
Bicyclopyrone	0.01	300	Females 13-49 yrs	0.00028	1.7	General Population	-	-
Bifenazate	0.1	3000	Females 13-49 yrs	0.01	60	General Population	-	-
Bifenthrin	0.031	210	Children	--	--	--	-	-
Bispyribac-sodium	--	--	--	0.1	600	General Population	-	-
Bitertanol	0.05	1000	Females 13-49 yrs	0.0021	12	General Population	-	-
Bixafen	2.5	17000	Children	0.03	200	General Population	-	-
Boscalid	--	--	--	0.22	1300	General Population	-	-
Bromoxynil, phenol + esters	0.08	500	Children	0.015	89	General Population	0.103	0.287-28.7
Bromuconazole ^h	0.1	3000	Females 13-49 yrs	0.009	50	General Population	-	-
Buprofezin	2	60000	Females 13-49 yrs	0.033	200	General Population	-	-
Butafenacil	--	--	--	0.012	71	General Population	-	-
Butoxypolypropylene Glycol ⁱ	--	--	--	1.2	7100	General Population	-	-
Butralin	0.082	2300	Females 13-49 yrs	0.1	600	General Population	-	-
Cacodylic acid + sodium salt	0.12	800	Children	0.014	83	General Population	-	-
Cadusafos	0.00002	0.1	Children	0.000001	0.006	General Population	-	-
Captan	0.1	3000	Females 13-49 yrs	0.13	770	General Population	-	-
Carbendazim (MBC)	0.14	930	Children	0.14	830	General Population	0.00239	12.4-1240
Carfentrazone-ethyl	--	--	--	0.03	200	General Population	-	-
Chlorantraniliprole	--	--	--	1.58	9350	General Population	-	-
Chlorethoxyfos	0.00014	0.93	Children	0.00005	0.3	Females 13-49 yrs	-	-
Chlorfenapyr	0.05	300	Children	0.05	300	General Population	-	-
Chlorflurenol Methyl Ester	--	--	--	0.1	600	General Population	-	-
Chlorimuron-ethyl	1	7000	Children	0.09	500	General Population	-	-
Chlormequat chloride	1	7000	Children	0.05	300	General Population	-	-
Chloroneb ^g	--	--	--	0.013	77	General Population	-	-
Chlorpropham	--	--	--	0.005	30	General Population	-	-
Chlorpyrifos methyl	0.00033	2.2	Children	0.00033	1.9	Females 13-49 yrs	-	-
Chlorsulfuron	--	--	--	0.05	300	General Population	-	-
Clethodim	1	7000	Children	0.3	2000	General Population	-	-
Clodinafop-propargyl	0.05	1000	Females 13-49 yrs	0.0032	19	General Population	-	-
Clofentezine	--	--	--	0.013	77	General Population	0.0376	0.787-78.7
Clomazone	1	30000	Females 13-49 yrs	0.84	5000	General Population	-	-
Clopyralid + salts	--	--	--	0.15	890	General Population	-	-
Cloquintocet-mexyl	1	30000	Females 13-49 yrs	0.04	200	General Population	-	-

Cloransulam-Methyl	--	--	--	0.1	600	General Population	-	-
Clothianidin	0.25	1700	Children	0.098	580	General Population	-	-
Coumaphos	0.0025	17	Children	0.0003	2	General Population	-	-
Cyantraniliprole	--	--	--	0.01	60	General Population	-	-
Cyazofamid	--	--	--	0.948	5610	General Population	-	-
Cyclanilide	0.5	3000	Children	0.002	10	General Population	-	-
Cycloate	0.066	440	Children	0.005	30	General Population	-	-
Cyflufenamid	--	--	--	0.044	260	General Population	-	-
Cyflumetofen	--	--	--	0.17	1000	General Population	-	-
Cyfluthrin	0.0117	78	Children	--	--	--	-	-
Cyhalofop-butyl	--	--	--	0.01	60	General Population	-	-
Cyhalothrin	0.00093	6.2	Children	--	--	--	-	-
Cyhexatin	0.0067	45	Children	0.0025	15	General Population	-	-
Cymoxanil	0.08	2000	Females 13-49 yrs	0.03	200	General Population	-	-
Cypermethrin	0.0716	477	Children	--	--	--	-	-
Cyproconazole	0.02	600	Females 13-49 yrs	0.01	60	General Population	-	-
Cyprodinil	2	10000	Children	0.027	160	General Population	-	-
Cyprosulfamide	--	--	--	0.39	2300	General Population	-	-
Cyromazine	0.83	5500	Children	0.5	3000	General Population	-	-
DDAC	0.1	3000	Females 13-49 yrs	0.1	600	General Population	-	-
DDBSA	--	--	--	0.5	3000	General Population	-	-
Daminozide	--	--	--	--	--	--	0.0087	3.4-340
Dantochlor (BCDMH)	1	30000	Females 13-49 yrs	1	6000	Females 13-49 yrs	-	-
Deltamethrin	0.015	100	Children	--	--	--	-	-
Desmedipham	0.1	700	Children	0.04	200	General Population	-	-
Diaminochlorotriazine (DACT)	0.01	300	Females 13-49 yrs	0.0018	11	General Population	-	-
Dichlobenil	0.45	13000	Females 13-49 yrs	0.01	60	General Population	-	-
Dichloran	0.05	1000	Females 13-49 yrs	0.0025	15	General Population	-	-
Dichlormid	0.01	70	Children	0.0022	13	General Population	-	-
Dichlorvos	0.00083	5.5	Children	0.00006	0.3	Females 13-49 yrs	-	-
Diclofop-methyl	0.1	3000	Females 13-49 yrs	0.0023	14	General Population	0.0736	0.402-40.2
Diclosulam	--	--	--	0.05	300	General Population	-	-
Dicofol [®]	0.05	300	Children	0.0004	2	General Population	-	-
Dicrotophos	0.00007	0.5	Children	0.00003	0.2	Females 13-49 yrs	-	-
Diethanolamine Mefluidide	0.58	3900	Children	0.015	89	General Population	-	-
Diethofencarb	--	--	--	0.5	3000	General Population	-	-
Difenoconazole	0.25	1700	Children	0.01	60	General Population	-	-
Difenzoquat methyl sulfate	--	--	--	0.083	490	General Population	-	-

Diflubenzuron	--	--	--	0.02	100	General Population	-	-
Diflufenzopyr + sodium salt	1	30000	Females 13-49 yrs	0.26	1500	General Population	-	-
Dimethenamid	2	10000	Children	0.05	300	General Population	-	-
Dimethenamid-P	2	10000	Children	0.05	300	General Population	-	-
Dimethipin	--	--	--	0.0218	129	General Population	-	-
Dimethoate	0.013	87	Children	0.0022	13	General Population	-	-
Dimethomorph	0.25	1700	Children	0.11	650	General Population	-	-
Dinocap	0.004	100	Females 13-49 yrs	0.00038	2.2	General Population	-	-
Dinotefuran	1.25	8330	Children	1	6000	General Population	-	-
Diphacinone ^g	0.002	10	Children	--	--	--	-	-
Diphenylamine	--	--	--	0.1	600	General Population	-	-
Diquat dibromide	0.75	5000	Children	0.005	30	General Population	-	-
Disodium methanearsonate	0.1	700	Children	0.03	200	General Population	-	-
Dithianon	0.02	600	Females 13-49 yrs	0.006	40	General Population	-	-
Dithiopyr	--	--	--	0.0036	21	General Population	-	-
Dodine	--	--	--	0.02	100	General Population	-	-
d-Phenothrin (Sumithrin)	0.3	8000	Females 13-49 yrs	0.07	400	General Population	-	-
Ecolyst	0.5	3000	Children	0.14	830	General Population	-	-
Enamectin Benzoate	0.0025	17	Children	0.0025	15	General Population	-	-
Endosulfan	0.015	100	Children	0.006	40	General Population	-	-
Epoxiconazole	0.05	1000	Females 13-49 yrs	0.02	100	General Population	0.0304	0.973-97.3
EPTC (Ethyl dipropylthiocarbamate)	0.2	1000	Children	0.05	300	General Population	-	-
Esfenvalerate	0.011	73	Children	--	--	--	-	-
Ethaboxam	--	--	--	0.055	330	General Population	-	-
Ethalfuralin	0.75	21000	Females 13-49 yrs	0.04	200	General Population	0.089	0.33-33
Ethametsulfuron	--	--	--	4.5	27000	General Population	-	-
Ethephon	0.06	400	Children	0.06	400	General Population	-	-
Ethiprole	0.35	2300	Children	0.03	200	General Population	-	-
Ethofumesate	0.3	8000	Females 13-49 yrs	0.3	2000	Females 13-49 yrs	-	-
Ethoprop	0.00042	2.8	Children	0.000065	0.37	Females 13-49 yrs	0.0281	1.05-105
Ethoxyquin	1	7000	Children	0.04	200	General Population	-	-
Ethyl Parathion ^g	0.0003	2	Children	0.00003	0.2	General Population	-	-
Ethylene Chlorohydrin ^g	0.1	700	Children	0.045	270	General Population	-	-
Etofenprox	--	--	--	0.0255	151	General Population	-	-
Etoxazole	--	--	--	0.046	270	General Population	-	-
Etridiazole (Terrazole)	--	--	--	0.06	400	General Population	0.0358	0.826-82.6
Famoxadone	--	--	--	0.0014	8.3	General Population	-	-

Fenamidone	1.25	8330	Children	0.0283	167	General Population	-	-
Fenarimol	--	--	--	0.006	40	General Population	-	-
Fenazaquin	0.15	1000	Children	0.05	300	General Population	-	-
Fenbuconazole	0.3	8000	Females 13-49 yrs	0.03	200	General Population	0.00359	8.24-824
Fenbutatin-oxide	0.2	1000	Children	0.05	300	General Population	-	-
Fenhexamid	--	--	--	0.17	1000	General Population	-	-
Fenitrothion	0.00025	1.7	Children	0.00013	0.77	General Population	-	-
Fenoxaprop-ethyl	0.32	9000	Females 13-49 yrs	0.0025	15	General Population	-	-
Fenpicoxamid (XDE-777)	--	--	--	0.4	2000	General Population	-	-
Fenpropathrin	0.05	300	Children	--	--	--	-	-
Fenpropidin	0.07	500	Children	0.023	140	General Population	-	-
Fenpropimorph	0.15	4200	Females 13-49 yrs	0.032	190	General Population	-	-
Fenpyrazamine	0.8	5000	Children	0.3	2000	General Population	-	-
Fenpyroximate	0.375	2500	Children	0.01	60	General Population	-	-
Fenthion ^g	0.0007	5	Children	0.00007	0.4	General Population	-	-
Ferbam	0.014	93	Children	0.015	89	General Population	-	-
Fipronil	0.025	170	Children	0.0002	1	General Population	-	-
Flazasulfuron	0.5	3000	Children	0.013	77	General Population	-	-
Flonicamid	--	--	--	0.04	200	General Population	-	-
Florasulam	--	--	--	0.05	300	General Population	-	-
Fluazifop	0.5	10000	Females 13-49 yrs	0.0074	44	General Population	-	-
Fluazifop-P-Butyl	0.5	3000	Children	0.0051	30	General Population	-	-
Fluazinam	0.07	2000	Females 13-49 yrs	0.011	65	General Population	-	-
Flubendiamide	0.995	6630	Children	0.024	140	General Population	-	-
Flucarbazone-sodium	--	--	--	0.074	440	General Population	-	-
Fludioxonil	--	--	--	0.33	2000	General Population	-	-
Fluensulfone	0.16	1100	Children	0.1	600	General Population	-	-
Flufenacet (Thiaflumide)	0.0017	11	Children	0.0017	10	General Population	-	-
Flufenoxuron	--	--	--	0.0375	222	General Population	-	-
Flufenpyr-ethyl	--	--	--	0.4	2000	General Population	-	-
Flumetralin	0.5	10000	Females 13-49 yrs	--	--	--	-	-
Flumetsulam (XRD-498)	--	--	--	1	6000	General Population	-	-
Flumiclorac pentyl	--	--	--	1	6000	General Population	-	-
Flumioxazin	0.03	800	Females 13-49 yrs	0.02	100	General Population	-	-
Fluopicolide	--	--	--	0.2	1000	General Population	-	-
Fluopyram	0.5	3000	Children	0.012	71	General Population	-	-
Fluoxastrobin	--	--	--	0.015	89	General Population	-	-

Flupyradifurone	0.35	2300	Children	0.078	460	General Population	-	-
Fluridone	1.25	8330	Children	0.15	890	General Population	-	-
Fluroxypyr + acid	--	--	--	1	6000	General Population	-	-
Flurprimidol	0.1	3000	Females 13-49 yrs	0.04	200	General Population	-	-
Flusilazole	0.02	600	Females 13-49 yrs	0.002	10	General Population	-	-
Fluthiacet methyl	--	--	--	0.001	6	General Population	0.207	0.143-14.3
Flutolanil	--	--	--	0.5	3000	General Population	-	-
Flutriafol	0.075	2100	Females 13-49 yrs	0.05	300	General Population	-	-
Fluxapyroxad	1.25	8330	Children	0.021	120	General Population	-	-
Folpet	0.1	3000	Females 13-49 yrs	0.09	500	General Population	-	-
Fomesafen + sodium	1	7000	Children	0.01	60	General Population	-	-
Forchlorfenuron	--	--	--	0.07	400	General Population	-	-
Formetanate hydrochloride	0.00032	2.1	Children	--	--	--	-	-
Fosetyl-Al	--	--	--	2.5	15000	General Population	-	-
Fosthiazate	0.0065	43	Children	0.00096	5.7	General Population	-	-
Furfural	0.8	5000	Children	0.1	600	General Population	0.0349	0.848-84.8
Furfuryl Alcohol	--	--	--	--	--	--	0.131	0.226-22.6
Furilazole	0.1	3000	Females 13-49 yrs	0.0009	5	General Population	0.0274	1.08-108
Gamma Cyhalothrin	0.00093	6.2	Children	--	--	--	-	-
Gardona	0.0028	19	Children	0.0028	16	Females 13-49 yrs	0.00183	16.2-1620
Glufosinate-ammonium	0.063	1800	Females 13-49 yrs	0.006	40	General Population	-	-
Halauxifen-methyl	--	--	--	0.03	200	General Population	-	-
Halosulfuron methyl (MON 1200)	0.5	10000	Females 13-49 yrs	0.1	600	General Population	-	-
Hexaconazole ^g	0.0025	71	Females 13-49 yrs	0.02	100	General Population	0.016	1.8-180
Hexythiazox	--	--	--	0.025	150	General Population	-	-
Hydramethylnon	--	--	--	0.017	100	General Population	-	-
Hydrogen cyanamide (Cyanamide)	0.005	30	Children	0.002	10	General Population	0.0664	0.446-44.6
Hydrogen cyanide	0.004	30	Children	--	--	--	-	-
Hydroxyatrazine	--	--	--	0.0676	400	General Population	-	-
Hymexazol	1.5	10000	Children	0.3	2000	General Population	-	-
Imazalil + sulfate	0.1	3000	Females 13-49 yrs	0.108	639	General Population	0.0611	0.484-48.4
Imazamethabenz-methyl	5	100000	Females 13-49 yrs	0.25	1500	General Population	-	-
Imazapic ⁱ	--	--	--	0.137	811	General Population	-	-
Imazapyr	--	--	--	2.5	15000	General Population	-	-
Imazaquin + salts	--	--	--	0.25	1500	General Population	-	-
Imazethapyr ⁱ	--	--	--	2.5	15000	General Population	-	-
Imazosulfuron	4	30000	Children	0.75	4400	General Population	-	-

Imidacloprid	0.08	500	Children	0.08	500	General Population	-	-
Indaziflam	0.075	500	Children	0.02	100	General Population	-	-
Indoxacarb	0.12	800	Children	0.02	100	General Population	-	-
Inpyrfluxam	0.3	2000	Children	0.26	1500	General Population	-	-
Iodosulfuran Methyl-Sodium	1	7000	Children	0.073	430	General Population	-	-
Ipoconazole	0.1	3000	Females 13-49 yrs	0.015	89	General Population	-	-
Iprodione	--	--	--	0.061	360	General Population	0.0439	0.674-67.4
Iprovalicarb	--	--	--	0.0262	155	General Population	0.000447	66.2-6620
Isofenphos ^g	0.0007	5	Children	0.00008	0.5	General Population	-	-
Isofetamid	--	--	--	0.77	4600	General Population	-	-
Isopyrazam	0.3	2000	Children	0.055	330	General Population	0.00629	4.70-470
Isotianil	--	--	--	0.27	1600	General Population	-	-
Isoxaben	--	--	--	0.05	300	General Population	-	-
Isoxadifen-ethyl	0.15	4200	Females 13-49 yrs	0.033	200	General Population	-	-
Isoxaflutole	0.02	600	Females 13-49 yrs	0.02	100	General Population	0.0114	2.60-260
Kasugamycin	--	--	--	0.11	650	General Population	-	-
Kathon 930	0.03	200	Children	0.002	10	General Population	-	-
Kresoxim-methyl	--	--	--	0.36	2100	General Population	0.0029	10-1000
Lactofen	0.017	480	Females 13-49 yrs	0.008	50	General Population	-	-
Lambda cyhalothrin	0.00093	6.2	Children	--	--	--	-	-
Linuron	0.2	1000	Children	0.0077	46	General Population	-	-
Mancozeb	0.5	3000	Children	0.016	90	Females 13-49 yrs	0.0601 ^j	0.492-49.2
Mandestrobin	--	--	--	0.92	5400	General Population	-	-
Mandipropamid	--	--	--	0.05	300	General Population	-	-
Maneb ^g	0.02	600	Females 13-49 yrs	0.05	300	General Population	0.0601	0.492-49.2
MCPB Acid	0.142	947	Children	0.044	260	General Population	-	-
MCPB Sodium Salt	0.142	947	Children	0.044	260	General Population	-	-
MCPP-p acid + salts	1.75	11700	Children	0.04	200	General Population	-	-
Mefenoxam	0.5	3000	Children	--	--	--	-	-
Mefenpyr-diethyl (HOE 107892)	--	--	--	0.51	3000	General Population	-	-
Mefentrifluconazole	0.73	21000	Females 13-49 yrs	0.035	210	General Population	-	-
Mefluidide	0.58	3900	Children	0.015	89	General Population	-	-
Mepiquat Chloride	0.3	2000	Children	0.3	2000	General Population	-	-
Meptyldinocap (DE-126/Dinocap II)	--	--	--	0.005	30	General Population	-	-
Mesosulfuron methyl	--	--	--	1.55	9170	General Population	-	-
Mesotrione	--	--	--	0.71	4200	General Population	-	-
Metaflumizone	0.33	9300	Females 13-49 yrs	0.04	200	General Population	-	-

Metalaxyl	0.5	3000	Children	--	--	--	-	-
Metaldehyde	0.3	2000	Children	0.1	600	General Population	-	-
Metconazole	0.3	8000	Females 13-49 yrs	0.04	200	General Population	-	-
Methamidophos⁶	0.001	7	Children	0.0001	0.6	General Population	-	-
Methidathion⁶	0.002	10	Children	0.0015	8.9	General Population	-	-
Methiozolin	--	--	--	0.43	2500	General Population	-	-
Methoxyfenozide	--	--	--	0.1	600	General Population	-	-
Methyl bromide	0.14	4000	Females 13-49 yrs	0.022	130	General Population	-	-
Metiram	0.01	300	Females 13-49 yrs	0.0004	2	General Population	0.0601	0.492-49.2
Metrafenone	--	--	--	0.249	1470	General Population	-	-
Metsulfuron methyl	--	--	--	0.25	1500	General Population	-	-
Mevinphos⁶	0.0003	2	Children	0.000025	0.15	General Population	-	-
MGK 264	1	30000	Females 13-49 yrs	0.061	360	General Population	-	-
Monosodium acid methanearsonate (MMA)	0.1	700	Children	0.03	200	General Population	-	-
MSMA-calcium salt	0.1	700	Children	0.03	200	General Population	-	-
Myclobutanil	0.6	20000	Females 13-49 yrs	0.025	150	General Population	-	-
Naled	0.0032	21	Children	0.0006	3	Females 13-49 yrs	-	-
Napropamide	--	--	--	0.12	710	General Population	-	-
Napthalene Acetates	--	--	--	0.25	1500	General Population	-	-
Nicosulfuron	--	--	--	1.25	7400	General Population	-	-
Nitrapyrin	0.16	1100	Children	0.03	200	General Population	-	-
Norflurazon	--	--	--	0.0015	8.9	General Population	-	-
Novaluron	--	--	--	0.011	65	General Population	-	-
Orthosulfamuron	--	--	--	0.05	300	General Population	-	-
Oryzalin	0.25	7100	Females 13-49 yrs	0.19	1100	General Population	0.00779	3.80-380
Oxadiazon	0.12	3400	Females 13-49 yrs	0.005	30	General Population	0.0711	0.416-41.6
Oxydemeton-methyl⁶	0.008	50	Children	0.0001	0.6	General Population	-	-
Oxyfluorfen	--	--	--	0.04	200	General Population	0.0732	0.404-40.4
Oxytetracycline	--	--	--	0.1	600	General Population	-	-
Oxytetracycline calcium	--	--	--	0.1	600	General Population	-	-
Oxytetracycline hydrochloride	--	--	--	0.1	600	General Population	-	-
Paclobutrazol	0.3	2000	Children	0.11	650	General Population	-	-
Paraquat dichloride	0.05	300	Children	0.005	30	General Population	-	-
PCNB, Pentachloronitrobenzene (Quintozene)	--	--	--	0.001	6	General Population	-	-
Pebulate	0.05	300	Children	0.0007	4	Females 13-49 yrs	-	-
Pendimethalin	1	7000	Children	0.3	2000	General Population	-	-

Penflufen	0.5	3000	Children	0.38	2200	General Population	-	-
Penoxsulam	--	--	--	0.147	870	General Population	-	-
Penthiopyrad	1.25	8330	Children	0.27	1600	General Population	-	-
Permethrin	0.44	2900	Children	--	--	--	-	-
Pethoxamid	--	--	--	0.17	1000	General Population	-	-
Phenmedipham	--	--	--	0.24	1400	General Population	-	-
PHMB	0.2	6000	Females 13-49 yrs	0.2	1000	General Population	-	-
Phorate	0.00083	5.5	Children	0.00017	1	General Population	-	-
Phosalone ^g	0.03	200	Children	0.002	10	General Population	-	-
Phosmet	0.0014	9.3	Children	0.00016	0.9	Females 13-49 yrs	-	-
Phostebupirim (Tebupirimphos)	0.000158	1.05	Children	0.000041	0.23	Females 13-49 yrs	-	-
Picoxystrobin	0.2	1000	Children	0.046	270	General Population	-	-
Pinoxaden	0.3	8000	Females 13-49 yrs	0.3	2000	General Population	-	-
Piperonyl butoxide	5	30000	Children	0.16	950	General Population	-	-
Pirimiphos-methyl	0.006	40	Children	0.00073	4.1	Females 13-49 yrs	-	-
Potassium Mefluidide	0.58	3900	Children	0.015	89	General Population	-	-
Prallethrin	0.025	170	Children	--	--	--	-	-
Primisulfuron-methyl	--	--	--	0.25	1500	General Population	-	-
Procymidone	0.035	990	Females 13-49 yrs	--	--	--	0.01339	2.210-221
Prodiamine	--	--	--	0.14	830	General Population	-	-
Profenofos	0.00199	13.3	Children	0.00012	0.68	Females 13-49 yrs	-	-
Prohexadione calcium	--	--	--	0.2	1000	General Population	-	-
Prometryn	--	--	--	0.04	200	General Population	-	-
Pronamide (Propyzamide)	0.04	300	Children	0.013	77	General Population	-	-
Propamocarb hydrochloride	2	10000	Children	0.12	710	General Population	-	-
Propanil	--	--	--	0.03	200	General Population	-	-
Propargite	--	--	--	0.04	200	General Population	0.192	0.154-15.4
Propetamphos	0.0005	3	Children	0.0005	3	General Population	-	-
Propiconazole	0.3	2000	Children	0.1	600	General Population	-	-
Propoxur	0.00038	2.5	Children	--	--	--	0.00352	8.41-841
Propoxycarbazone sodium	--	--	--	0.748	4430	General Population	-	-
Propylene oxide	0.21	5900	Females 13-49 yrs	0.001	6	General Population	0.15	0.20-20
Proquinazid	0.05	300	Children	0.004	20	General Population	-	-
Prosulfuron	0.1	700	Children	0.053	310	General Population	-	-
Prothioconazole	0.02	600	Females 13-49 yrs	0.01	60	General Population	-	-
Pydiflumetofen	1	7000	Children	0.092	540	General Population	-	-
Pymetrozine	0.008	50	Children	0.008	50	General Population	0.0119	2.49-249
Pyraclostrobin	0.05	1000	Females 13-49 yrs	0.034	200	General Population	-	-

Pyraflufen ethyl	--	--	--	0.2	1000	General Population	0.0332	0.891-89.1
Pyrasulfotole	0.038	250	Children	0.01	60	General Population	-	-
Pyrazon	--	--	--	0.18	1100	General Population	-	-
Pyrethrins	0.07	500	Children	0.004	20	General Population	-	-
Pyridaben	0.44	2900	Children	0.022	130	General Population	-	-
Pyridalyl	--	--	--	0.034	200	General Population	-	-
Pyridate	0.2	1000	Children	0.11	650	General Population	-	-
Pyrifluquinazon	0.05	1000	Females 13-49 yrs	0.06	400	General Population	-	-
Pyrimethanil	1	7000	Children	0.17	1000	General Population	-	-
Pyriofenone	--	--	--	0.091	540	General Population	-	-
Pyriproxyfen	--	--	--	0.35	2100	General Population	-	-
Pyrithiobac-sodium	--	--	--	0.587	3470	General Population	0.00105	28.2-2820
Pyroxasulfone	1	7000	Children	0.02	100	General Population	-	-
Pyroxulam	--	--	--	1	6000	General Population	-	-
Quinchlorac	2	60000	Females 13-49 yrs	0.38	2200	General Population	-	-
Quinoxifen	--	--	--	0.2	1000	General Population	-	-
Quizalofop-ethyl	--	--	--	0.009	50	General Population	-	-
Resmethrin [®]	--	--	--	0.035	210	General Population	0.05621	0.5263-52.63
Rimsulfuron	--	--	--	0.118	698	General Population	-	-
RoteNone	0.015	420	Females 13-49 yrs	0.0004	2	General Population	-	-
Saflufenacil (BAS 800 H)	5	30000	Children	0.046	270	General Population	-	-
Sedaxane	0.3	2000	Children	0.11	650	General Population	-	-
Sethoxydim	1.8	12000	Children	0.14	830	General Population	-	-
Siduron	--	--	--	0.15	890	General Population	-	-
Sodium bentazon	0.5	3000	Children	0.15	890	General Population	-	-
Sodium Chlorate	--	--	--	0.03	200	General Population	-	-
Sodium cyanide	0.004	30	Children	--	--	--	-	-
Sodium Dodecylbenzene Sulfonate	--	--	--	0.5	3000	General Population	-	-
Spinetoram	--	--	--	0.0249	147	General Population	-	-
Spinosad	--	--	--	0.0249	147	General Population	-	-
Spirodiclofen	--	--	--	0.014	83	General Population	0.0149	1.99-199
Spiromesifen	--	--	--	0.0038	22	General Population	-	-
Spirotetramat	1	7000	Children	0.05	300	General Population	-	-
Spiroxamine	0.1	700	Children	0.025	150	General Population	-	-
Streptomycin	--	--	--	0.05	300	General Population	-	-
Streptomycin Sesquisulfate	--	--	--	0.05	300	General Population	-	-
Sulfentrazone	0.14	4000	Females 13-49 yrs	0.14	830	General Population	-	-

Sulfometuron Methyl	--	--	--	0.275	1630	General Population	-	-
fosate (Glyphosate-trimesium)	0.33	2200	Children	0.083	490	General Population	-	-
Sulfosulfuron	--	--	--	0.24	1400	General Population	-	-
Sulfoxaflor	0.25	1700	Children	0.05	300	General Population	-	-
Sulfuryl fluoride	--	--	--	0.08	500	General Population	-	-
Tau-fluvalinate	0.01	70	Children	--	--	--	-	-
TCMTB (Busan 72)	0.25	1700	Children	0.01	60	General Population	-	-
Tebuconazole	0.029	190	Children	0.029	170	General Population	-	-
Tebufenozide	--	--	--	0.02	100	General Population	-	-
Teflubenzuron	--	--	--	0.021	120	General Population	-	-
Tefluthrin	0.005	30	Children	--	--	--	-	-
Tembotrione	0.0008	5	Children	0.0004	2	General Population	-	-
Tepraloxydim	0.5	3000	Children	0.05	300	General Population	-	-
Tetrachlorvinphos	0.0028	19	Children	0.0028	16	Females 13-49 yrs	0.00183	16.2-1620
Tetraconazole	0.5	3000	Children	0.0073	43	General Population	-	-
Thiabendazole + salt	0.5	3000	Children	0.1	600	General Population	-	-
Thiacloprid	0.01	70	Children	0.004	20	General Population	0.0406	0.729-72.9
Thiamethoxam	0.35	2300	Children	0.012	71	General Population	-	-
Thidiazuron	--	--	--	0.0393	233	General Population	-	-
Thiencarbazone-methyl	--	--	--	1.17	6920	General Population	-	-
Thifensulfuron methyl	1.59	44900	Females 13-49 yrs	0.043	250	General Population	-	-
Thiobencarb	1	7000	Children	0.01	60	General Population	-	-
Thiodicarb	0.0015	10	Children	--	--	--	-	-
Thiophanate-methyl	0.4	3000	Children	0.16	950	General Population	0.0116	2.55-255
Thiram	0.014	400	Females 13-49 yrs	0.015	89	General Population	-	-
Tiafenacil	--	--	--	0.01	60	General Population	-	-
Tioxazafen	0.25	1700	Children	0.05	300	General Population	-	-
Tolfenpyrad	0.1	700	Children	0.006	40	General Population	-	-
Tolpyralate	0.05	1000	Females 13-49 yrs	0.0093	55	General Population	-	-
Tolyfluanid	0.17	1100	Children	0.026	150	General Population	0.00159	18.6-1860
Topramezone	0.008	50	Children	0.004	20	General Population	-	-
Tralkoxydim	0.3	8000	Females 13-49 yrs	0.005	30	General Population	-	-
Triadimefon	0.034	230	Children	0.034	200	General Population	-	-
Triadimenol	0.0034	23	Children	0.0034	20	General Population	-	-
Triallate	0.6	4000	Children	0.025	150	General Population	0.0717	0.413-41.3
Triasulfuron	--	--	--	0.01	60	General Population	-	-
Triazole Acetic Acid	0.1	3000	Females 13-49 yrs	0.09	500	General Population	-	-

Triazole alanine	0.1	3000	Females 13-49 yrs	0.09	500	General Population	-	-
Tribenuron methyl	3	20000	Children	0.008	50	General Population	-	-
Tribufos	0.001	7	Children	0.0002	1	Females 13-49 yrs	-	-
Trichlorfon	0.00007	0.5	Children	0.00007	0.4	Females 13-49 yrs	-	-
Triclopyr	0.05	1000	Females 13-49 yrs	0.05	300	General Population	-	-
Triclosan	0.3	2000	Children	0.3	2000	General Population	-	-
Tricyclazole	0.07	500	Children	0.067	400	General Population	-	-
Tridemorph	0.02	600	Females 13-49 yrs	0.01	60	General Population	-	-
Trifloxystrobin	2.5	71000	Females 13-49 yrs	0.038	220	General Population	-	-
Trifloxysulfuron Sodium	0.5	10000	Females 13-49 yrs	0.237	1400	General Population	-	-
Triflumezopyrim	1	7000	Children	0.17	1000	General Population	-	-
Triflumizole	0.25	1700	Children	0.0117	69.2	General Population	-	-
Triflusulfuron-methyl	--	--	--	0.0244	144	General Population	-	-
Triforine	--	--	--	0.22	1300	General Population	-	-
Trinexapac-Ethyl	0.6	20000	Females 13-49 yrs	0.32	1900	General Population	-	-
Triphenyltin hydroxide (TPTH)	0.005	30	Children	0.001	6	General Population	1.83	0.0162-1.62
Triticonazole	0.5	10000	Females 13-49 yrs	0.17	1000	General Population	-	-
Uniconazole-P	0.05	1000	Females 13-49 yrs	0.02	100	General Population	-	-
Valifenalate	--	--	--	0.22	1300	General Population	-	-
Vinclozolin	0.006	200	Females 13-49 yrs	0.0012	7.1	General Population	-	-
Zeta-Cypermethrin	0.0716	477	Children	--	--	--	-	-
Zinc Phosphide ^g	0.002	10	Children	0.00001	0.06	General Population	-	-
Ziram	0.05	300	Children	0.016	95	General Population	-	-
Zoxamide ⁱ	--	--	--	0.48	2800	General Population	-	-

FOOTNOTES:

- a.** Formula for deriving Acute HHBP for Children = [aPAD (mg/kg/day) x 1000 (µg/mg)] / [0.15 (L/kg-day) Drinking Water Intake-Body Weight (DWI-BW) ratio]; Formula for deriving Acute HHBP for Females 13-49 Years = [aPAD (mg/kg/day) x 1000 (µg/mg)] / 0.0354 (L/kg/day) DWI-BW ratio
- b.** Formula for deriving Chronic HHBP for General Population = [cPAD (mg/kg bw/day) x 1000 (µg/mg) x 0.2 RSC] / 0.0338 (L/kg/day) DWI-BW ratio; Formula for deriving Chronic HHBP for Females 13-49 Years = [cPAD (mg/kg bw/day) x 1000 (µg/mg) x 0.2 RSC] / 0.0354 (L/kg/day) DWI-BW ratio, and RSC = Relative Source Contribution assumed as 20%
- c.** Where there is no value, refer to the document for the cancer classification and quantification.
- d.** No value denotes that carcinogenic quantification is not applicable and therefore, no carcinogenic HHBP is determined.
- e.** Formula for deriving carcinogenic HHBP (ppb) = [10-6 or 10-4/Drinking Water Unit Risk (ppb-1), where Drinking Water Unit Risk (ppb-1) = [CSF (per mg/kg/day) x 0.0338 (L/kg/day) adult DWI-BW ratio]/[1000 (µg/mg)]
- f.** Represents the lowest benchmarks for the lifestage/population evaluated.
- g.** Pesticide has no current registrations for food-use
- h.** Pesticide is now classified as non-food use; benchmarks are based on tox data from 2017 HHBP update, using 2021 updated exposure factors.
- i.** Pesticide was reevaluated by OPP with updated exposure pattern information demonstrating that no effects were seen at doses relevant for human health risk assessment; benchmarks were derived from 2017 OPP toxicity values using updated 2021 exposure factors.
- j.** Mancozeb's cancer risk is calculated by estimating exposure to mancozeb-derived ETU and using the ETU cancer potency factor (Q1*) of 6.01 x 10 -2 (mg/kg/day)-1