

AQUATIC LIFE BENCHMARKS, OREGON ANALYSIS

Analyte	Lowest Benchmark (Aquatic Life)	Year Update	Acute Fish ug/L	Chronic Fish ug/L	Acute Invertebrates ug/L	Chronic Invertebrates ug/L	Non-Vascular Plants Acute	Vascular Plants Acute	Acute One Day Human Health Exposure (HHBP) ug/L	Chronic Lifetime Human Health Exposure (HHBP) ug/L
2,4-D	299.2	2016			12500			299.2		
2,4-DB	83	2020	7150	1660	12500	1500	932	83		
2,4,5-T										
2,4,5-TP (Silvex)										
2,6-Dichlorobenzamide									700	29
3,5-Dichlorobenzoic acid										
4,4'-DDD										
4,4'-DDE										
4,4'-DDT										
Acephate	150		416000	5760	550	150	>50000		30	7.7
Acetamiprid	2.1	2016	>50000	19200	10.5	2.1	>1000	>1000	0.1	100
Acetochlor	3.4		190	130	4100	22.1	1.43	3.4	1.5	450
Acifluorfen										
Alachlor	2.3	2016	900	187	1250	110	1.64	2.3		
Aldrin										
alpha-BHC										
Ametryn	3.67	2014	1800	700	14000	240	3.67	13		
Aminocarb										
Aminomethylphosphonic acid (AMPA)	249500	2016	249500		341500					
Atrazine	<1	2016	2650	5	360	60	<1	4.6		
Azinphos-methyl (Guthion)	0.08	2016	0.18	0.44	0.08	0.25			0.003	9.6
Azoxystrobin	44	2016	235	147	130	44	49	3400	0.67	1200
Baygon (Propoxur)	5.5		1850		5.5					
beta-BHC										
Bifenthrin	0.0013	2016	0.075	0.04	0.8	0.0013			0.01	
Bromacil	6.8		18000	300	60500	8200	6.8	45		
Butachlor										
Butylate			105	300	5500			4600		
Carbaryl	0.5	2016	110	6	0.85	0.5	660			
Carbofuran	0.75		44	5.7	1.115	0.75				
Chlorobenzilate										
Chloroneb										
Chlorothalonil	0.6		5.25	3	1.8	0.6	6.8	630		

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Chlorpropham										
Chlorpyrifos	0.04	2016	0.9	0.57	0.05	0.04	140			
cis-Chlordane										
Cyanazine										
Cycloate	1200	2016	2250		1200				0.067	30
Dacthal (DCPA)	>11000	2016	15000		13500		>11000	>11000		
DCPA acid metabolites										
DEET	37500	2015	37500		37500					
Deisopropylatrazine										
delta-BHC										
Desethylatrazine										
Diazinon	0.17	2016	45	<0.55	0.105	0.17	3700			
Dicamba	61	2016	14000		>50000		61	>3250		
Dichlobenil	30	2016	2465	<330	3100	560	1500	30	0.045	60
Dichloroprop (2,4-DP)	77	2016	>45750		279000	100000	77	32000		
Dichlorvos (DDVP)	0.0058		91.5	5.2	0.035	0.0058	14000		0.008	3
Dieldrin										
Dimethenamid	8.9	2015	3150	300	6000	1020	14	8.9		
Dimethoate	0.5	2016	3100	430	21.5	0.5	20000	>92600	0.013	14
Dinoseb										
Diphenamid									2	300
Diuron	2.4		200	26.4	80	200	2.4	15		
Endosulfan I	0.01	2016	0.05	0.023	0.3	0.01	428		0.015	40
Endosulfan II										
Endosulfan sulfate	0.19	2016	1.9		150					
Endrin										
Endrin aldehyde										
EPTC	40	2019	7000	40	3250	800	1400	5600	0.2	300
Ethoprop	0.8	2016	150	24	22	0.8	8400		0.0076	9
Etridiazole	72	2015	605	120	1540	370	72	8120		
Fenamiphos	0.12		4.75	3.8	0.95	0.12				
Fenarimol	100		450	180	3400	113	100			40
Fenvalerate+Esfenvalerate										
Esfenvalerate	300	2016	0.035	0.035	0.025	0.017			0.0018	12

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Fluometuron	30	2016	1480	3100	110	38	30	220		
Fluridone	480	2016	2550	480	2600				1.25	960
gamma-BHC (Lindane)										
Glyphosate	12100	2016	21500	25700	26600	49900	12100	11900		
Heptachlor										
Heptachlor epoxide										
Hexazinone	7	2019	137000	17000	75800	20000	7	37.4		
Imazapyr	24	2015	>50000	43100	>50000	97100	12200	24		16000
Imidacloprid	0.01	2017	114500	9000	0.385	0.01			0.14	360
Linuron	0.09		1500	5.58	60	0.09	13.7	2.5	0.12	49
Malathion	0.06	2016	2.05	8.6	0.049	0.06	2040	24000		
MCPA	170	2017					630	170		
MCPP	14	2016	>46500		>45500	50800	14	1300	1.75	390
Methiocarb	2.75	2016	90	50	2.75					
Methomyl	0.6	2020	250	57	4.4	0.6				
Methoxychlor	0.7	2016	7.5		0.7					
Methyl paraoxon	1				1.15	1				
Metolachlor	1	2016	1900	30	550	1	8	21		
Metribuzin	8.1	2016	21000	<3000	2100	1290	8.1	130		
Metsulfuron Methyl	0.36	2016	>75000	45000	>75000		31	0.36		
Mevinphos									0.0003	0.16
Mexacarbate										
MGK 264									1	390
Mirex										
Molinate	105		105	390	170	340	220	3300		
Napropamide	1100		3200	1100	7150	1100	3400			770
Neburon										
Norflurazon	9.7		4050	750	>7500	1000	9.7	58.2	0.03	96
Oxamyl	27	2016	2100	500	90	27	120	30000		
Oxyfluorfen	0.29	2016	100	1.3	750	13	0.29	0.33		200
Parathion-ethyl										
Parathion-methyl										
Pebulate	230		3150		3315		230	1800	0.05	4
Pendimethalin	5.2	2019	69	6.3	140	14.5	5.2	12.5	1	2400

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Pentachlorophenol	25		47.5		25					
Permethrin	0.0014	2016	0.395	0.0515	0.0195	0.0014	68		0.25	1600
Picloram	550	2015	2750	550	17200	11800	34900			
Prometon	98	2014	6000	19700	12850	3450	98			
Prometryn	1.04	2014	1455	620	4850	1000	1.04	11.9	0.12	300
Pronamide										
Propachlor	13.5		85		395		13.5			
Propazine	47	2014	>2190	560	>2660	47	24.8	100		
Propiconazole	21	2016	425	95	650	260	21	3500	0.3	600
Pyraclostrobin	1.5	2015	3.1	2.35	7.85	4	1.5	1197		
Pyraflufen ethyl	0.89	2015	>42.5	0.89	>41	81	1.5	16		
Pyriproxyfen	0.015	2016	>165	4.3	200	0.015	56	>0.18		2200
Siduron	6	2016	4050	15	>6850	6	220	21		960
Simazine	6	2016	3200	60	500	40	6	67		
Simetryn										
Sulfometuron-methyl	0.45	2014	>74000		>75000	97000	4.3	0.45	0.275	1760
Tebuthiuron	50	2015	53000	9300	148500	21800	50	130		
Terbacil	11		23100	1200	32500	50	11	140		
Terbufos	0.03	2017	0.385	0.1	0.085	0.03	>1850	>4200		
Terbutryn (Prebane)										
Terbutylazine	1800	2016	1800		19700					
Tetrachlorvinphos (Stirophos)	0.125	2017	265	47	0.95	0.125	3200	>4625		
Total Solids										
trans-Chlordane										
trans-Nonachlor										
Triadimefon	52	2016	2050	170	800	52	2000			
Triclopyr	32500	2015	58500		66450		32500		0.05	300
Tricyclazole									0.07	430
Trifloxystrobin	2.76	2014	7.15	4.3	12.65	2.76	37.1	>1930	2.5	240
Trifluralin										
Tris (1,3-dichloro-2-propyl) phosphate (TDCP)										
Tris (2-chloroethyl) phosphate (TCEP)										
Vernolate										