

APPENDIX L
Exposure Response Output and Data Tables

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX		Lower	Upper
				ECXX	linkP	(ug/L)	Upper CI	Lower CI	Modeled	Response	Response	
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	0.0500	1.6449	-0.2082	-0.0319	-0.6243	0.0565	0.0125	0.1766
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	0.1000	1.2816	-0.0813	0.0682	-0.3988	0.1091	0.0388	0.2429
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	0.2000	0.8416	0.0724	0.2050	-0.1413	0.2111	0.1150	0.3429
24	4	Methylmercuric chloride	Salvelinus fontinalis	Survival	0.0500	-0.0513	2.1928	3.8833	1.5419	0.2475	0.0732	0.8369
24	4	Methylmercuric chloride	Salvelinus fontinalis	Survival	0.1000	-0.1054	2.2113	3.9167	1.5547	0.2572	0.0793	0.8341
24	4	Methylmercuric chloride	Salvelinus fontinalis	Survival	0.2000	-0.2231	2.2517	3.9895	1.5827	0.2797	0.0942	0.8301
25	1	Mercury	Pimephales promelas	Survival	0.0500	1.6449	-1.8977	-0.7254	-4.3800	0.0529	0.0324	0.0824
25	1	Mercury	Pimephales promelas	Survival	0.1000	1.2816	-0.5042	0.3475	-2.1773	0.1044	0.0746	0.1421
25	1	Mercury	Pimephales promelas	Survival	0.2000	0.8416	1.1831	1.8114	0.3256	0.2062	0.1690	0.2478
25	2	Mercury	Pimephales promelas	Growth	0.0500	-0.0513	-7.7697	-3.9878	-25.8923	0.1982	0.1441	0.2725
25	2	Mercury	Pimephales promelas	Growth	0.1000	-0.1054	-7.5052	-3.8258	-25.1167	0.2087	0.1540	0.2827
25	2	Mercury	Pimephales promelas	Growth	0.2000	-0.2231	-6.9289	-3.4725	-23.4276	0.2335	0.1779	0.3066
25	3	Mercury	Pimephales promelas	Development	0.0500	1.6449	-0.1517	1.1280	-4.6196	0.0529	0.0324	0.0824
25	3	Mercury	Pimephales promelas	Development	0.1000	1.2816	1.5083	2.6319	-0.5411	0.1044	0.0746	0.1421
25	3	Mercury	Pimephales promelas	Development	0.2000	0.8416	3.5184	6.4298	2.4209	0.2062	0.1690	0.2478
25	5	Mercury	Pimephales promelas	Growth	0.0500	-0.0513	27.0739	41.0249	20.3931	0.1982	0.1441	0.2725
25	5	Mercury	Pimephales promelas	Growth	0.1000	-0.1054	27.4459	41.5996	20.6683	0.2087	0.1540	0.2827
25	5	Mercury	Pimephales promelas	Growth	0.2000	-0.2231	28.2565	42.8516	21.2678	0.2335	0.1779	0.3066
25	6	Mercury	Pimephales promelas	Growth	0.0500	-0.0513	0.6456	1.0650	0.0154	0.1982	0.1441	0.2725
25	6	Mercury	Pimephales promelas	Growth	0.1000	-0.1054	0.7492	1.1592	0.1545	0.2087	0.1540	0.2827
25	6	Mercury	Pimephales promelas	Growth	0.2000	-0.2231	0.9749	1.3722	0.4499	0.2335	0.1779	0.3066
25	7	Mercury	Pimephales promelas	Growth	0.0500	-0.0513	9.3547	17.8205	6.6267	0.1982	0.1441	0.2725
25	7	Mercury	Pimephales promelas	Growth	0.1000	-0.1054	9.6164	18.3610	6.8008	0.2087	0.1540	0.2827
25	7	Mercury	Pimephales promelas	Growth	0.2000	-0.2231	10.1866	19.5388	7.1797	0.2335	0.1779	0.3066
25	8	Mercury	Pimephales promelas	Growth	0.0500	-0.0513	3.9597	6.6157	2.9303	0.1982	0.1441	0.2725
25	8	Mercury	Pimephales promelas	Growth	0.1000	-0.1054	4.2126	7.0732	3.1073	0.2087	0.1540	0.2827
25	8	Mercury	Pimephales promelas	Growth	0.2000	-0.2231	4.7637	8.0708	3.4919	0.2335	0.1779	0.3066
33	2	Lead	Salvelinus fontinalis	Growth	0.0500	-0.0513	79.2700	108.3894	65.4047	0.1982	0.1441	0.2725
33	2	Lead	Salvelinus fontinalis	Growth	0.1000	-0.1054	81.7129	112.2904	67.2555	0.2087	0.1540	0.2827
33	2	Lead	Salvelinus fontinalis	Growth	0.2000	-0.2231	87.0347	120.8157	71.2602	0.2335	0.1779	0.3066
35	1	Lead	Pimephales promelas	Survival	0.0500	1.6449	10.9522	20.1981	-6.2437	0.0500	0.0353	0.0692
35	1	Lead	Pimephales promelas	Survival	0.1000	1.2816	25.1965	32.4913	14.4921	0.1000	0.0787	0.1253
35	1	Lead	Pimephales promelas	Survival	0.2000	0.8416	42.4453	51.7226	35.2565	0.2000	0.1735	0.2287
35	2	Lead	Pimephales promelas	Development	0.0500	1.6449	7.1682	10.9285	2.3903	0.0500	0.0353	0.0692
35	2	Lead	Pimephales promelas	Development	0.1000	1.2816	13.1625	16.3947	9.2128	0.1000	0.0787	0.1253
35	2	Lead	Pimephales promelas	Development	0.2000	0.8416	20.4213	23.2287	17.2595	0.2000	0.1735	0.2287
36	1	Lead	Pimephales promelas	Survival	0.0500	1.6449	5.8044	14.5310	-8.0946	0.0500	0.0353	0.0692
36	1	Lead	Pimephales promelas	Survival	0.1000	1.2816	18.2177	25.0513	8.1258	0.1000	0.0787	0.1253
36	1	Lead	Pimephales promelas	Survival	0.2000	0.8416	33.2492	38.9133	26.6448	0.2000	0.1735	0.2287
36	2	Lead	Pimephales promelas	Development	0.0500	1.6449	10.1862	13.2095	6.4537	0.0500	0.0353	0.0692
36	2	Lead	Pimephales promelas	Development	0.1000	1.2816	15.4553	18.0373	12.3463	0.1000	0.0787	0.1253
36	2	Lead	Pimephales promelas	Development	0.2000	0.8416	21.8358	24.0046	19.3606	0.2000	0.1735	0.2287
38	1	Copper	Pimephales promelas	Survival	0.0500	1.6449	-19.3526	13.5220	-142.4932	0.0647	0.0220	0.1540
38	1	Copper	Pimephales promelas	Survival	0.1000	1.2816	7.1833	32.7100	-75.0250	0.1223	0.0586	0.2235
38	1	Copper	Pimephales promelas	Survival	0.2000	0.8416	39.3161	62.8478	-0.2290	0.2308	0.1501	0.3314
38	2	Copper	Pimephales promelas	Growth	0.0500	-0.0513	215.4903	734.4297	135.0537	0.1982	0.1441	0.2725
38	2	Copper	Pimephales promelas	Growth	0.1000	-0.1054	223.2078	763.6380	139.5772	0.2087	0.1540	0.2827

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX Modeled	Lower Response	Upper Response	
				ECXX	linkP	(ug/L)	Upper CI	Lower CI				
38	2	Copper	Pimephales promelas	Growth	0.2000	-0.2231	240.0200	827.2870	149.4116	0.2335	0.1779	0.3066
38	3	Copper	Pimephales promelas	Reproduction	0.0500	-0.0513	33.6403	45.4698	27.5978	0.2475	0.0732	0.8369
38	3	Copper	Pimephales promelas	Reproduction	0.1000	-0.1054	34.0345	46.0564	27.8973	0.2572	0.0793	0.8341
38	3	Copper	Pimephales promelas	Reproduction	0.2000	-0.2231	34.8933	47.3346	28.5495	0.2797	0.0942	0.8301
39	1	Copper	Pimephales promelas	Survival	0.0500	1.6449	6.2274	8.6969	1.5951	0.0500	0.0223	0.1002
39	1	Copper	Pimephales promelas	Survival	0.1000	1.2816	8.9319	10.9909	5.6196	0.1000	0.0573	0.1622
39	1	Copper	Pimephales promelas	Survival	0.2000	0.8416	12.2067	14.2581	10.0036	0.2000	0.1441	0.2673
39	2	Copper	Pimephales promelas	Growth	0.0500	-0.0513	164.7043	251.6932	123.6294	0.1982	0.1441	0.2725
39	2	Copper	Pimephales promelas	Growth	0.1000	-0.1054	166.8274	255.0033	125.1923	0.2087	0.1540	0.2827
39	2	Copper	Pimephales promelas	Growth	0.2000	-0.2231	171.4523	262.2142	128.5971	0.2335	0.1779	0.3066
40	1	Copper	Pimephales promelas	Survival	0.0500	1.6449	7.5740	15.0709	-6.3368	0.0539	0.0215	0.1166
40	1	Copper	Pimephales promelas	Survival	0.1000	1.2816	13.2257	19.8721	2.1465	0.1065	0.0567	0.1821
40	1	Copper	Pimephales promelas	Survival	0.2000	0.8416	20.0696	26.3011	11.8039	0.2102	0.1453	0.2896
40	2	Copper	Pimephales promelas	Growth	0.0500	-0.0513	56.8420	79.7495	45.2653	0.1982	0.1441	0.2725
40	2	Copper	Pimephales promelas	Growth	0.1000	-0.1054	57.4712	80.7183	45.7543	0.2087	0.1540	0.2827
40	2	Copper	Pimephales promelas	Growth	0.2000	-0.2231	58.8419	82.8317	46.8165	0.2335	0.1779	0.3066
41	2	Copper	Pimephales notatus	Reproduction	0.0500	-0.0513	104.4287	132.8928	86.4709	0.1982	0.1441	0.2725
41	2	Copper	Pimephales notatus	Reproduction	0.1000	-0.1054	105.5072	134.3212	87.3710	0.2087	0.1540	0.2827
41	2	Copper	Pimephales notatus	Reproduction	0.2000	-0.2231	107.8565	137.4371	89.3274	0.2335	0.1779	0.3066
42	2	Copper	Lepomis macrochirus	Growth	0.0500	-0.0513	1237.8859	2591.0512	825.1033	0.1982	0.1441	0.2725
42	2	Copper	Lepomis macrochirus	Growth	0.1000	-0.1054	1250.2198	2617.4498	833.1561	0.2087	0.1540	0.2827
42	2	Copper	Lepomis macrochirus	Growth	0.2000	-0.2231	1277.0887	2674.9586	850.6983	0.2335	0.1779	0.3066
42	5	Copper	Lepomis macrochirus	Survival	0.0500	1.6449	-63.7815	-42.5556	-100.7275	0.0529	0.0324	0.0824
42	5	Copper	Lepomis macrochirus	Survival	0.1000	1.2816	-47.5659	-29.7164	-78.4425	0.1044	0.0746	0.1421
42	5	Copper	Lepomis macrochirus	Survival	0.2000	0.8416	-27.9300	-14.0729	-51.5533	0.2062	0.1690	0.2478
43	1	Copper	Oncorhynchus tshawytscha	Survival	0.0500	1.6449	5.2884	.	.	0.0509	0.0385	0.0664
43	1	Copper	Oncorhynchus tshawytscha	Survival	0.1000	1.2816	7.3985	.	.	0.1015	0.0836	0.1219
43	1	Copper	Oncorhynchus tshawytscha	Survival	0.2000	0.8416	9.9536	.	.	0.2021	0.1802	0.2254
43	2	Copper	Oncorhynchus tshawytscha	Growth	0.0500	-0.0513	71.6600	85.3648	62.1882	0.1982	0.1441	0.2725
43	2	Copper	Oncorhynchus tshawytscha	Growth	0.1000	-0.1054	72.3848	86.2518	62.8012	0.2087	0.1540	0.2827
43	2	Copper	Oncorhynchus tshawytscha	Growth	0.2000	-0.2231	73.9636	88.1841	64.1366	0.2335	0.1779	0.3066
43	3	Copper	Oncorhynchus tshawytscha	Growth	0.0500	-0.0513	206.3936	370.9086	144.6905	0.1982	0.1441	0.2725
43	3	Copper	Oncorhynchus tshawytscha	Growth	0.1000	-0.1054	209.2196	376.0896	146.6337	0.2087	0.1540	0.2827
43	3	Copper	Oncorhynchus tshawytscha	Growth	0.2000	-0.2231	215.3759	387.3762	150.8668	0.2335	0.1779	0.3066
44	1	Cadmium	Oncorhynchus tshawytscha	Survival	0.0500	1.6449	0.3754	0.7918	-0.9366	0.0509	0.0385	0.0664
44	1	Cadmium	Oncorhynchus tshawytscha	Survival	0.1000	1.2816	0.8934	1.1986	0.1962	0.1015	0.0836	0.1219
44	1	Cadmium	Oncorhynchus tshawytscha	Survival	0.2000	0.8416	1.5207	2.0419	1.2172	0.2021	0.1802	0.2254
45	1	Cadmium	Pimephales promelas	Survival	0.0500	1.6449	-93.1346	-46.2450	-238.4792	0.0500	0.0338	0.0718
45	1	Cadmium	Pimephales promelas	Survival	0.1000	1.2816	-61.1855	-24.4737	-171.8180	0.1000	0.0764	0.1285
45	1	Cadmium	Pimephales promelas	Survival	0.2000	0.8416	-22.4975	2.9889	-92.1958	0.2000	0.1706	0.2323
46	1	Cadmium	Jordanella floridae	Survival	0.0500	1.6449	1.3321	.	.	0.0548	0.0291	0.0957
46	1	Cadmium	Jordanella floridae	Survival	0.1000	1.2816	6.9797	.	.	0.1074	0.0695	0.1582
46	1	Cadmium	Jordanella floridae	Survival	0.2000	0.8416	13.8185	.	.	0.2103	0.1628	0.2651
46	2	Cadmium	Jordanella floridae	Growth	0.0500	-0.0513	289.7980	465.3573	211.9037	0.1982	0.1441	0.2725
46	2	Cadmium	Jordanella floridae	Growth	0.1000	-0.1054	293.8603	471.9679	214.8367	0.2087	0.1540	0.2827
46	2	Cadmium	Jordanella floridae	Growth	0.2000	-0.2231	302.7101	486.3690	221.2261	0.2335	0.1779	0.3066
46	3	Cadmium	Jordanella floridae	Reproduction	0.0500	-0.0513	43.8486	57.2012	35.8192	0.2475	0.0732	0.8369

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX Modeled	Lower Response	Upper Response	
				ECXX	linkP	(ug/L)	Upper CI	Lower CI				
46	3	Cadmium	Jordanella floridae	Reproduction	0.1000	-0.1054	44.1184	57.5606	36.0353	0.2572	0.0793	0.8341
46	3	Cadmium	Jordanella floridae	Reproduction	0.2000	-0.2231	44.7061	58.3435	36.5061	0.2797	0.0942	0.8301
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.0500	-0.0513	3.6727	7.9490	2.5287	0.2475	0.0732	0.8369
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.1000	-0.1054	3.8080	8.2769	2.6163	0.2572	0.0793	0.8341
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.2000	-0.2231	4.1027	8.9920	2.8064	0.2797	0.0942	0.8301
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.0500	-0.0513	16.7499	62.8628	9.9208	0.2475	0.0732	0.8369
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.1000	-0.1054	16.8882	63.3995	10.0003	0.2572	0.0793	0.8341
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	0.2000	-0.2231	17.1894	64.5687	10.1734	0.2797	0.0942	0.8301
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	0.0500	-0.0513	1.9295	2.5381	1.5178	0.1982	0.1441	0.2725
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	0.1000	-0.1054	2.1653	2.8703	1.7316	0.2087	0.1540	0.2827
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	0.2000	-0.2231	2.6792	3.6259	2.1652	0.2335	0.1779	0.3066
48	1	Cadmium	Salmo salar	Reproduction	0.0500	1.6449	-248.6270	.	.	0.0499	0.0429	0.0578
48	1	Cadmium	Salmo salar	Reproduction	0.1000	1.2816	-144.7988	.	.	0.0998	0.0899	0.1105
48	1	Cadmium	Salmo salar	Reproduction	0.2000	0.8416	-19.0710	.	.	0.1998	0.1878	0.2123
48	2	Cadmium	Salmo salar	Survival	0.0500	1.6449	-336.2415	.	.	0.0499	0.0429	0.0578
48	2	Cadmium	Salmo salar	Survival	0.1000	1.2816	-226.7151	.	.	0.0998	0.0899	0.1105
48	2	Cadmium	Salmo salar	Survival	0.2000	0.8416	-94.0871	.	.	0.1998	0.1878	0.2123
48	3	Cadmium	Salmo salar	Growth	0.0500	-0.0513	1527.6534	2906.0216	1051.6948	0.1982	0.1441	0.2725
48	3	Cadmium	Salmo salar	Growth	0.1000	-0.1054	1545.9625	2941.7280	1064.0240	0.2087	0.1540	0.2827
48	3	Cadmium	Salmo salar	Growth	0.2000	-0.2231	1585.8478	3019.5145	1090.8810	0.2335	0.1779	0.3066
49	1	Cadmium	Salmo salar	Reproduction	0.0500	1.6449	-182.4818	-102.7594	-320.3412	0.0509	0.0321	0.0776
49	1	Cadmium	Salmo salar	Reproduction	0.1000	1.2816	-96.0177	-32.1198	-200.9327	0.1012	0.0736	0.1356
49	1	Cadmium	Salmo salar	Reproduction	0.2000	0.8416	8.6835	58.5195	-61.4385	0.2012	0.1667	0.2397
50	1	Cadmium	Salmo salar	Reproduction	0.0500	1.6449	-199.9555	-53.9172	-610.6492	0.0524	0.0348	0.0765
50	1	Cadmium	Salmo salar	Reproduction	0.1000	1.2816	-103.8169	16.9335	-418.1144	0.1032	0.0778	0.1342
50	1	Cadmium	Salmo salar	Reproduction	0.2000	0.8416	12.5995	111.5798	-193.8214	0.2034	0.1720	0.2380
51	1	Cadmium	Salmo salar	Reproduction	0.0500	1.6449	-37.2084	-7.8566	-94.3300	0.0503	0.0341	0.0721
51	1	Cadmium	Salmo salar	Reproduction	0.1000	1.2816	-7.9435	15.3771	-50.4042	0.1001	0.0765	0.1285
51	1	Cadmium	Salmo salar	Reproduction	0.2000	0.8416	27.4941	45.8639	0.4339	0.1992	0.1700	0.2313
51	2	Cadmium	Salmo salar	Survival	0.0500	1.6449	33.8723	44.7653	14.7032	0.0503	0.0341	0.0721
51	2	Cadmium	Salmo salar	Survival	0.1000	1.2816	46.2432	54.9804	32.0593	0.1001	0.0765	0.1285
51	2	Cadmium	Salmo salar	Survival	0.2000	0.8416	61.2234	68.5209	51.9053	0.1992	0.1700	0.2313
51	3	Cadmium	Salmo salar	Growth	0.0500	-0.0513	3131.3369	13143.2142	1802.4390	0.1982	0.1441	0.2725
51	3	Cadmium	Salmo salar	Growth	0.1000	-0.1054	3169.6505	13306.8195	1824.1544	0.2087	0.1540	0.2827
51	3	Cadmium	Salmo salar	Growth	0.2000	-0.2231	3253.1147	13663.2279	1871.4589	0.2335	0.1779	0.3066
52	1	Cadmium	Salmo salar	Reproduction	0.0500	1.6449	-192.4353	-57.4555	-819.6296	0.0503	0.0335	0.0734
52	1	Cadmium	Salmo salar	Reproduction	0.1000	1.2816	-105.7654	8.5180	-538.9697	0.1006	0.0759	0.1306
52	1	Cadmium	Salmo salar	Reproduction	0.2000	0.8416	-0.8149	117.9192	-228.6250	0.2008	0.1701	0.2347
52	2	Cadmium	Salmo salar	Survival	0.0500	1.6449	-439.5713	.	.	0.0503	0.0335	0.0734
52	2	Cadmium	Salmo salar	Survival	0.1000	1.2816	-330.2359	.	.	0.1006	0.0759	0.1306
52	2	Cadmium	Salmo salar	Survival	0.2000	0.8416	-197.8393	.	.	0.2008	0.1701	0.2347
52	3	Cadmium	Salmo salar	Growth	0.0500	-0.0513	232.2807	541.1254	151.5365	0.1982	0.1441	0.2725
52	3	Cadmium	Salmo salar	Growth	0.1000	-0.1054	235.1941	548.2019	153.3863	0.2087	0.1540	0.2827
52	3	Cadmium	Salmo salar	Growth	0.2000	-0.2231	241.5409	563.6193	157.4145	0.2335	0.1779	0.3066
54	2	Nickel	Pimephales promelas	Growth	0.0500	-0.0513	6362.9547	20268.9424	3861.7287	0.1982	0.1441	0.2725
54	2	Nickel	Pimephales promelas	Growth	0.1000	-0.1054	6493.9991	20699.1118	3939.1000	0.2087	0.1540	0.2827
54	2	Nickel	Pimephales promelas	Growth	0.2000	-0.2231	6779.4736	21636.2277	4107.6389	0.2335	0.1779	0.3066

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration		ECXX		Lower Response	Upper Response
				ECXX	linkP	(ug/L)	Upper CI	Lower CI	Modeled		
54	3 Nickel	Pimephales promelas	Reproduction	0.0500	-0.0513	4499.9077	11135.7802	2874.2848	0.2475	0.0732	0.8369
54	3 Nickel	Pimephales promelas	Reproduction	0.1000	-0.1054	4532.4901	11218.7149	2894.6013	0.2572	0.0793	0.8341
54	3 Nickel	Pimephales promelas	Reproduction	0.2000	-0.2231	4603.4693	11399.3870	2938.8576	0.2797	0.0942	0.8301
54	4 Nickel	Pimephales promelas	Survival	0.0500	1.6449	160.9330	.	.	0.0500	0.0353	0.0692
54	4 Nickel	Pimephales promelas	Survival	0.1000	1.2816	279.3587	.	.	0.1000	0.0787	0.1253
54	4 Nickel	Pimephales promelas	Survival	0.2000	0.8416	422.7629	.	.	0.2000	0.1735	0.2287
55	1 Nickel	Pimephales promelas	Survival	0.0500	1.6449	71.5076	232.4402	-259.6359	0.0539	0.0215	0.1166
55	1 Nickel	Pimephales promelas	Survival	0.1000	1.2816	206.9814	359.3587	-29.6403	0.1065	0.0567	0.1821
55	1 Nickel	Pimephales promelas	Survival	0.2000	0.8416	371.0295	556.6634	205.2501	0.2102	0.1453	0.2896
56	1 Nickel	Oncorhynchus mykiss	Survival	0.0500	1.6449	-173.4835	-110.0984	-267.9506	0.0494	0.0354	0.0675
56	1 Nickel	Oncorhynchus mykiss	Survival	0.1000	1.2816	-100.7685	-48.7082	-177.1166	0.0991	0.0788	0.1231
56	1 Nickel	Oncorhynchus mykiss	Survival	0.2000	0.8416	-12.7163	26.8223	-68.3155	0.1989	0.1736	0.2263
56	2 Nickel	Oncorhynchus mykiss	Survival	0.0500	1.6449	-358.0978	-276.4037	-479.9222	0.0494	0.0354	0.0675
56	2 Nickel	Oncorhynchus mykiss	Survival	0.1000	1.2816	-275.5053	-207.1379	-376.8919	0.0991	0.0788	0.1231
56	2 Nickel	Oncorhynchus mykiss	Survival	0.2000	0.8416	-175.4923	-122.8217	-252.5711	0.1989	0.1736	0.2263
57	1 Nickel	Oncorhynchus mykiss	Survival	0.0500	1.6449	-72.2345	15.3794	-205.0003	0.0496	0.0352	0.0684
57	1 Nickel	Oncorhynchus mykiss	Survival	0.1000	1.2816	22.0910	95.9415	-85.2165	0.0994	0.0784	0.1242
57	1 Nickel	Oncorhynchus mykiss	Survival	0.2000	0.8416	136.3119	197.4105	55.9176	0.1992	0.1731	0.2275
57	2 Nickel	Oncorhynchus mykiss	Survival	0.0500	1.6449	-274.5478	-199.9336	-373.7055	0.0496	0.0352	0.0684
57	2 Nickel	Oncorhynchus mykiss	Survival	0.1000	1.2816	-162.9790	-101.5032	-243.6442	0.0994	0.0784	0.1242
57	2 Nickel	Oncorhynchus mykiss	Survival	0.2000	0.8416	-27.8780	19.1056	-87.5674	0.1992	0.1731	0.2275
57	3 Nickel	Oncorhynchus mykiss	Growth	0.0500	-0.0513	-29.2714	160.1674	-449.9240	0.1982	0.1441	0.2725
57	3 Nickel	Oncorhynchus mykiss	Growth	0.1000	-0.1054	50.1681	227.0282	-307.8015	0.2087	0.1540	0.2827
57	3 Nickel	Oncorhynchus mykiss	Growth	0.2000	-0.2231	223.2236	393.9019	-19.4143	0.2335	0.1779	0.3066
58	2 Nickel	Oncorhynchus mykiss	Survival	0.0500	1.6449	-518.6151	1.4661	-1346.1685	0.0497	0.0283	0.0824
58	2 Nickel	Oncorhynchus mykiss	Survival	0.1000	1.2816	247.4135	650.9081	-346.5695	0.0999	0.0678	0.1419
58	2 Nickel	Oncorhynchus mykiss	Survival	0.2000	0.8416	1175.0140	1510.1393	791.0588	0.2008	0.1598	0.2475
58	3 Nickel	Oncorhynchus mykiss	Growth	0.0500	-0.0513	-1660.3754	-1354.6006	-2034.9419	0.1982	0.1441	0.2725
58	3 Nickel	Oncorhynchus mykiss	Growth	0.1000	-0.1054	-1497.2845	-1206.1259	-1853.2399	0.2087	0.1540	0.2827
58	3 Nickel	Oncorhynchus mykiss	Growth	0.2000	-0.2231	-1141.9984	-882.0334	-1458.0570	0.2335	0.1779	0.3066
59	4 Mercury	Pimephales promelas	Growth	0.0500	-0.0513	13.8995	17.3614	11.6509	0.1982	0.1441	0.2725
59	4 Mercury	Pimephales promelas	Growth	0.1000	-0.1054	14.1337	17.6589	11.8442	0.2087	0.1540	0.2827
59	4 Mercury	Pimephales promelas	Growth	0.2000	-0.2231	14.6438	18.3070	12.2650	0.2335	0.1779	0.3066
60	1 Chromium VI	Pimephales promelas	Generational Survival	0.0500	1.6449	-2336.9123	-723.2371	-7534.2981	0.0517	0.0285	0.0878
60	1 Chromium VI	Pimephales promelas	Generational Survival	0.1000	1.2816	-1204.7236	84.5038	-5025.0845	0.1028	0.0683	0.1485
60	1 Chromium VI	Pimephales promelas	Generational Survival	0.2000	0.8416	166.2681	1188.3295	-2112.3384	0.2044	0.1607	0.2545
60	2 Chromium VI	Pimephales promelas	Generational Growth	0.0500	-0.0513	8791.9184	22977.6346	5509.9554	0.1982	0.1441	0.2725
60	2 Chromium VI	Pimephales promelas	Generational Growth	0.1000	-0.1054	8883.7318	23222.1546	5566.5261	0.2087	0.1540	0.2827
60	2 Chromium VI	Pimephales promelas	Generational Growth	0.2000	-0.2231	9083.7431	23754.8348	5689.7587	0.2335	0.1779	0.3066
60	4 Chromium VI	Pimephales promelas	Generational Growth	0.0500	-0.0513	16696.0334	23022.0001	1.32E+04	0.1982	0.1441	0.2725
60	4 Chromium VI	Pimephales promelas	Generational Growth	0.1000	-0.1054	16968.2262	23402.4789	1.34E+04	0.2087	0.1540	0.2827
60	4 Chromium VI	Pimephales promelas	Generational Growth	0.2000	-0.2231	17561.1860	24231.3676	1.38E+04	0.2335	0.1779	0.3066
61	1 Chromium III	Oncorhynchus mykiss	Survival	0.0500	1.6449	-3.7354	21.0349	-40.8611	0.0510	0.0381	0.0671
61	1 Chromium III	Oncorhynchus mykiss	Survival	0.1000	1.2816	27.0353	48.4117	-1.7556	0.1013	0.0828	0.1226
61	1 Chromium III	Oncorhynchus mykiss	Survival	0.2000	0.8416	64.2963	84.8207	42.3402	0.2014	0.1787	0.2256
61	2 Chromium III	Oncorhynchus mykiss	Growth	0.0500	-0.0513	7242.7896	28010.0283	4182.0438	0.1982	0.1441	0.2725
61	2 Chromium III	Oncorhynchus mykiss	Growth	0.1000	-0.1054	7309.3966	28269.3161	4220.2585	0.2087	0.1540	0.2827

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX Modeled	Lower Response	Upper Response	
				ECXX	linkP	(ug/L)	Upper CI	Lower CI				
61	2	Chromium III	Oncorhynchus mykiss	Growth	0.2000	-0.2231	7454.4970	28834.1632	4303.5073	0.2335	0.1779	0.3066
61	3	Chromium III	Oncorhynchus mykiss	Survival	0.0500	1.6449	92.5068	117.5718	55.3158	0.0493	0.0363	0.0658
61	3	Chromium III	Oncorhynchus mykiss	Survival	0.1000	1.2816	120.8657	142.0655	90.8804	0.0991	0.0802	0.1210
61	3	Chromium III	Oncorhynchus mykiss	Survival	0.2000	0.8416	155.2061	173.0613	132.6107	0.1991	0.1757	0.2243
62	1	Chromium III	Pimephales promelas	Generational Survival	0.0500	1.6449	-558.9598	-95.2149	-1778.2911	0.0500	0.0285	0.0827
62	1	Chromium III	Pimephales promelas	Generational Survival	0.1000	1.2816	-164.4538	192.3003	-1043.1208	0.1000	0.0680	0.1418
62	1	Chromium III	Pimephales promelas	Generational Survival	0.2000	0.8416	313.2620	575.8904	-188.3188	0.2000	0.1593	0.2464
62	5	Chromium III	Pimephales promelas	Generational Survival	0.0500	1.6449	-4501.3990	-1384.6891	9546.8247	0.0500	0.0353	0.0692
62	5	Chromium III	Pimephales promelas	Generational Survival	0.1000	1.2816	-2844.0140	-708.6047	6531.5708	0.1000	0.0787	0.1253
62	5	Chromium III	Pimephales promelas	Generational Survival	0.2000	0.8416	-837.0506	210.4720	2779.9432	0.2000	0.1735	0.2287
62	6	Chromium III	Pimephales promelas	Generational Growth	0.0500	-0.0513	6351.3641	16111.3843	4106.0621	0.1982	0.1441	0.2725
62	6	Chromium III	Pimephales promelas	Generational Growth	0.1000	-0.1054	6471.9335	16434.5683	4180.4046	0.2087	0.1540	0.2827
62	6	Chromium III	Pimephales promelas	Generational Growth	0.2000	-0.2231	6734.5887	17138.6434	4342.3231	0.2335	0.1779	0.3066
63	2	Selenium VI	Pimephales promelas	Survival	0.0500	1.6449	-155.8997	159.9625	-718.3116	0.0500	0.0223	0.1002
63	2	Selenium VI	Pimephales promelas	Survival	0.1000	1.2816	139.6420	405.7949	-296.5289	0.1000	0.0573	0.1622
63	2	Selenium VI	Pimephales promelas	Survival	0.2000	0.8416	497.5199	729.6264	188.0693	0.2000	0.1441	0.2673
63	3	Selenium VI	Pimephales promelas	Growth	0.0500	-0.0513	4281.6494	5250.1159	3651.6241	0.1982	0.1441	0.2725
63	3	Selenium VI	Pimephales promelas	Growth	0.1000	-0.1054	4320.7885	5299.8082	3683.9495	0.2087	0.1540	0.2827
63	3	Selenium VI	Pimephales promelas	Growth	0.2000	-0.2231	4406.0513	5408.0660	3754.3638	0.2335	0.1779	0.3066
63	5	Selenium VI	Oncorhynchus mykiss	Survival	0.0500	1.6449	1596.0075	.	.	0.0500	0.0353	0.0692
63	5	Selenium VI	Oncorhynchus mykiss	Survival	0.1000	1.2816	1879.6801	.	.	0.1000	0.0787	0.1253
63	5	Selenium VI	Oncorhynchus mykiss	Survival	0.2000	0.8416	2223.1853	.	.	0.2000	0.1735	0.2287
64	1	Selenium IV	Oncorhynchus mykiss	Survival	0.0500	1.6449	-193.2455	.	.	0.0511	0.0378	0.0679
64	1	Selenium IV	Oncorhynchus mykiss	Survival	0.1000	1.2816	-111.1560	.	.	0.1017	0.0826	0.1238
64	1	Selenium IV	Oncorhynchus mykiss	Survival	0.2000	0.8416	-11.7521	.	.	0.2024	0.1790	0.2276
64	2	Selenium IV	Oncorhynchus mykiss	Development	0.0500	1.6449	11.5861	124.4142	-200.8896	0.0500	0.0285	0.0827
64	2	Selenium IV	Oncorhynchus mykiss	Development	0.1000	1.2816	108.5096	203.9552	-56.6633	0.1000	0.0680	0.1418
64	2	Selenium IV	Oncorhynchus mykiss	Development	0.2000	0.8416	225.8764	309.0682	109.1882	0.2000	0.1593	0.2464
65	2	Selenium IV	Pimephales promelas	Survival	0.0500	1.6449	36.6518	78.7635	-48.0192	0.0500	0.0223	0.1002
65	2	Selenium IV	Pimephales promelas	Survival	0.1000	1.2816	65.6249	103.8008	-0.8767	0.1000	0.0573	0.1622
65	2	Selenium IV	Pimephales promelas	Survival	0.2000	0.8416	100.7090	138.5010	51.8274	0.2000	0.1441	0.2673
66	2	Zinc	Poecilia reticulata	Growth	0.0500	-0.0513	5656.0462	10718.8399	3897.7410	0.1982	0.1441	0.2725
66	2	Zinc	Poecilia reticulata	Growth	0.1000	-0.1054	5702.8726	10809.7024	3929.2973	0.2087	0.1540	0.2827
66	2	Zinc	Poecilia reticulata	Growth	0.2000	-0.2231	5804.8817	11007.6432	3998.0401	0.2335	0.1779	0.3066
66	3	Zinc	Poecilia reticulata	Growth	0.0500	-0.0513	19060.6174	49574.3259	1.19E+04	0.1982	0.1441	0.2725
66	3	Zinc	Poecilia reticulata	Growth	0.1000	-0.1054	19260.4739	50098.8268	1.20E+04	0.2087	0.1540	0.2827
66	3	Zinc	Poecilia reticulata	Growth	0.2000	-0.2231	19695.8522	51241.4291	1.23E+04	0.2335	0.1779	0.3066
67	1	Zinc	Jordanella floridae	Survival	0.0500	1.6449	26.1057	.	.	0.0548	0.0291	0.0957
67	1	Zinc	Jordanella floridae	Survival	0.1000	1.2816	57.6350	.	.	0.1074	0.0695	0.1582
67	1	Zinc	Jordanella floridae	Survival	0.2000	0.8416	95.8146	.	.	0.2103	0.1628	0.2651
67	4	Zinc	Jordanella floridae	Reproduction	0.0500	-0.0513	602.8274	3254.7476	347.2524	0.2475	0.0732	0.8369
67	4	Zinc	Jordanella floridae	Reproduction	0.1000	-0.1054	606.8921	3277.9229	349.4858	0.2572	0.0793	0.8341
67	4	Zinc	Jordanella floridae	Reproduction	0.2000	-0.2231	615.7468	3328.4093	354.3510	0.2797	0.0942	0.8301
67	6	Zinc	Jordanella floridae	Survival	0.0500	1.6449	33.2248	41.2350	21.1986	0.0548	0.0291	0.0957
67	6	Zinc	Jordanella floridae	Survival	0.1000	1.2816	41.3896	48.2915	31.5471	0.1074	0.0695	0.1582
67	6	Zinc	Jordanella floridae	Survival	0.2000	0.8416	51.2766	57.2373	43.6774	0.2103	0.1628	0.2651
68	1	Zinc	Pimephales promelas	Survival	0.0500	1.6449	-3.8647	.	.	0.0508	0.0340	0.0736

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX Modeled	Lower Response	Upper Response	
				ECXX	linkP	(ug/L)	Upper CI	Lower CI				
68	1	Zinc	Pimephales promelas	Survival	0.1000	1.2816	55.5032	.	.	0.1013	0.0768	0.1310
68	1	Zinc	Pimephales promelas	Survival	0.2000	0.8416	127.3930	.	.	0.2021	0.1716	0.2355
68	2	Zinc	Pimephales promelas	Reproduction	0.0500	-0.0513	1069.6638	2306.7933	708.7015	0.2475	0.0732	0.8369
68	2	Zinc	Pimephales promelas	Reproduction	0.1000	-0.1054	1075.9062	2320.6278	712.7380	0.2572	0.0793	0.8341
68	2	Zinc	Pimephales promelas	Reproduction	0.2000	-0.2231	1089.5051	2350.7660	721.5310	0.2797	0.0942	0.8301
68	3	Zinc	Pimephales promelas	Survival	0.0500	1.6449	74.8793	126.3918	-26.4048	0.0529	0.0324	0.0824
68	3	Zinc	Pimephales promelas	Survival	0.1000	1.2816	138.0080	179.5068	70.1725	0.1044	0.0746	0.1421
68	3	Zinc	Pimephales promelas	Survival	0.2000	0.8416	214.4517	258.9184	172.0268	0.2062	0.1690	0.2478
68	4	Zinc	Pimephales promelas	Development	0.0500	1.6449	-14.8948	81.8476	-474.5488	0.0529	0.0324	0.0824
68	4	Zinc	Pimephales promelas	Development	0.1000	1.2816	93.4099	173.0050	-124.3573	0.1044	0.0746	0.1421
68	4	Zinc	Pimephales promelas	Development	0.2000	0.8416	224.5583	438.3242	144.7623	0.2062	0.1690	0.2478
68	5	Zinc	Pimephales promelas	Generational Survival	0.0500	1.6449	-22.5850	20.2995	-87.0601	0.0529	0.0324	0.0824
68	5	Zinc	Pimephales promelas	Generational Survival	0.1000	1.2816	23.1232	59.0960	-29.4663	0.1044	0.0746	0.1421
68	5	Zinc	Pimephales promelas	Generational Survival	0.2000	0.8416	78.4722	107.3340	39.0167	0.2062	0.1690	0.2478
70	1	Arsenic III	Pimephales promelas	Survival	0.0500	1.6449	-3669.0091	1558.1604	-2.61E+04	0.0529	0.0324	0.0824
70	1	Arsenic III	Pimephales promelas	Survival	0.1000	1.2816	-356.7558	4169.1027	-1.59E+04	0.1044	0.0746	0.1421
70	1	Arsenic III	Pimephales promelas	Survival	0.2000	0.8416	3654.1234	8519.6548	-4796.2651	0.2062	0.1690	0.2478
70	2	Arsenic III	Pimephales promelas	Growth	0.0500	-0.0513	41921.0342	46189.3606	3.84E+04	0.1982	0.1441	0.2725
70	2	Arsenic III	Pimephales promelas	Growth	0.1000	-0.1054	42467.8627	46798.4996	3.89E+04	0.2087	0.1540	0.2827
70	2	Arsenic III	Pimephales promelas	Growth	0.2000	-0.2231	43659.1044	48125.5445	4.00E+04	0.2335	0.1779	0.3066
70	3	Arsenic III	Pimephales promelas	Growth	0.0500	-0.0513	104953.7064	1.50E+05	8.13E+04	0.1982	0.1441	0.2725
70	3	Arsenic III	Pimephales promelas	Growth	0.1000	-0.1054	106910.5529	1.53E+05	8.28E+04	0.2087	0.1540	0.2827
70	3	Arsenic III	Pimephales promelas	Growth	0.2000	-0.2231	111173.4558	1.59E+05	8.60E+04	0.2335	0.1779	0.3066
70	5	Arsenic III	Jordanella floridae	Growth	0.0500	-0.0513	43485.2632	49947.7693	3.86E+04	0.1982	0.1441	0.2725
70	5	Arsenic III	Jordanella floridae	Growth	0.1000	-0.1054	44048.0557	50604.0774	3.91E+04	0.2087	0.1540	0.2827
70	5	Arsenic III	Jordanella floridae	Growth	0.2000	-0.2231	45274.0743	52033.8883	4.02E+04	0.2335	0.1779	0.3066
70	6	Arsenic III	Jordanella floridae	Growth	0.0500	-0.0513	82728.2216	1.08E+05	6.75E+04	0.1982	0.1441	0.2725
70	6	Arsenic III	Jordanella floridae	Growth	0.1000	-0.1054	84412.8186	1.10E+05	6.88E+04	0.2087	0.1540	0.2827
70	6	Arsenic III	Jordanella floridae	Growth	0.2000	-0.2231	88082.6381	1.15E+05	7.18E+04	0.2335	0.1779	0.3066
121	1	Mercury	Daphnia magna	Survival	0.0500	1.6449	0.7438	1.1997	-0.8132	0.0500	0.0223	0.1002
121	1	Mercury	Daphnia magna	Survival	0.1000	1.2816	0.9549	1.3966	-0.2149	0.1000	0.0573	0.1622
121	1	Mercury	Daphnia magna	Survival	0.2000	0.8416	1.2106	1.7106	0.4340	0.2000	0.1441	0.2673
121	2	Mercury	Daphnia magna	Reproduction	0.0500	-0.0513	5.4186	24.4989	3.2997	0.2475	0.0732	0.8369
121	2	Mercury	Daphnia magna	Reproduction	0.1000	-0.1054	5.4645	24.7299	3.3254	0.2572	0.0793	0.8341
121	2	Mercury	Daphnia magna	Reproduction	0.2000	-0.2231	5.5644	25.2330	3.3812	0.2797	0.0942	0.8301
122	1	Mercury	Daphnia magna	Survival	0.0500	1.6449	0.1219	.	.	0.0500	0.0223	0.1002
122	1	Mercury	Daphnia magna	Survival	0.1000	1.2816	0.7983	.	.	0.1000	0.0573	0.1622
122	1	Mercury	Daphnia magna	Survival	0.2000	0.8416	1.6173	.	.	0.2000	0.1441	0.2673
122	2	Mercury	Daphnia magna	Reproduction	0.0500	-0.0513	11.4542	43.4655	6.9077	0.2475	0.0732	0.8369
122	2	Mercury	Daphnia magna	Reproduction	0.1000	-0.1054	11.5919	44.0239	6.9870	0.2572	0.0793	0.8341
122	2	Mercury	Daphnia magna	Reproduction	0.2000	-0.2231	11.8919	45.2404	7.1597	0.2797	0.0942	0.8301
123	1	Methyl mercuric chloride	Daphnia magna	Survival	0.0500	1.6449	-0.0271	0.0652	-0.5964	0.0500	0.0223	0.1002
123	1	Methyl mercuric chloride	Daphnia magna	Survival	0.1000	1.2816	0.0600	0.1389	-0.2272	0.1000	0.0573	0.1622
123	1	Methyl mercuric chloride	Daphnia magna	Survival	0.2000	0.8416	0.1655	0.3700	0.0781	0.2000	0.1441	0.2673
123	2	Methyl mercuric chloride	Daphnia magna	Growth	0.0500	-0.0513	0.4988	0.9688	0.3440	0.2475	0.0732	0.8369
123	2	Methyl mercuric chloride	Daphnia magna	Growth	0.1000	-0.1054	0.5038	0.9789	0.3473	0.2572	0.0793	0.8341
123	2	Methyl mercuric chloride	Daphnia magna	Growth	0.2000	-0.2231	0.5146	1.0010	0.3546	0.2797	0.0942	0.8301

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX			
				ECXX	linkP	(ug/L)	Upper CI	Lower CI	Modeled	Lower Response	Upper Response	
124	1	Methyl mercuric chloride	Daphnia magna	Survival	0.0500	1.6449	0.4138	.	.	0.0500	0.0223	0.1002
124	1	Methyl mercuric chloride	Daphnia magna	Survival	0.1000	1.2816	0.5196	.	.	0.1000	0.0573	0.1622
124	1	Methyl mercuric chloride	Daphnia magna	Survival	0.2000	0.8416	0.6477	.	.	0.2000	0.1441	0.2673
131	1	Copper	Gammarus pseudolimnaeus	Survival	0.0500	1.6449	-8.4290	-3.5189	-22.4216	0.0647	0.0220	0.1540
131	1	Copper	Gammarus pseudolimnaeus	Survival	0.1000	1.2816	-5.6473	-1.5903	-16.9758	0.1223	0.0586	0.2235
131	1	Copper	Gammarus pseudolimnaeus	Survival	0.2000	0.8416	-2.2789	0.8039	-10.4401	0.2308	0.1501	0.3314
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	0.0500	-0.0513	17.3458	20.3474	15.2675	0.2475	0.0732	0.8369
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	0.1000	-0.1054	17.5112	20.5496	15.4075	0.2572	0.0793	0.8341
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	0.2000	-0.2231	17.8715	20.9903	15.7126	0.2797	0.0942	0.8301
132	3	Copper	Gammarus pseudolimnaeus	Survival	0.0500	1.6449	-2.9886	-0.8347	-6.5442	0.0647	0.0220	0.1540
132	3	Copper	Gammarus pseudolimnaeus	Survival	0.1000	1.2816	-0.6508	1.0923	-3.4178	0.1223	0.0586	0.2235
132	3	Copper	Gammarus pseudolimnaeus	Survival	0.2000	0.8416	2.1800	3.5254	0.2682	0.2308	0.1501	0.3314
133	1	Cadmium	Aplexa hypnorum	Survival	0.0500	1.6449	-1.3851	0.5050	-5.9620	0.0505	0.0352	0.0707
133	1	Cadmium	Aplexa hypnorum	Survival	0.1000	1.2816	-0.1587	1.4246	-3.7890	0.1007	0.0785	0.1271
133	1	Cadmium	Aplexa hypnorum	Survival	0.2000	0.8416	1.3264	2.6108	-1.2301	0.2006	0.1731	0.2306
133	2	Cadmium	Aplexa hypnorum	Growth	0.0500	-0.0513	40.9397	113.1815	27.0030	0.1982	0.1441	0.2725
133	2	Cadmium	Aplexa hypnorum	Growth	0.1000	-0.1054	42.1395	116.9172	27.7234	0.2087	0.1540	0.2827
133	2	Cadmium	Aplexa hypnorum	Growth	0.2000	-0.2231	44.7533	125.0566	29.2915	0.2335	0.1779	0.3066
133	3	Cadmium	Aplexa hypnorum	Reproduction	0.0500	-0.0513	16.8354	55.7088	10.4269	0.2475	0.0732	0.8369
133	3	Cadmium	Aplexa hypnorum	Reproduction	0.1000	-0.1054	17.0237	56.3816	10.5378	0.2572	0.0793	0.8341
133	3	Cadmium	Aplexa hypnorum	Reproduction	0.2000	-0.2231	17.4340	57.8473	10.7793	0.2797	0.0942	0.8301
134	1	Cadmium	Aplexa hypnorum	Survival	0.0500	1.6449	-2.3777	-0.4766	-7.0550	0.0493	0.0341	0.0697
134	1	Cadmium	Aplexa hypnorum	Survival	0.1000	1.2816	-1.3199	0.3095	-5.1589	0.0991	0.0767	0.1259
134	1	Cadmium	Aplexa hypnorum	Survival	0.2000	0.8416	-0.0389	1.3075	-2.9089	0.1989	0.1710	0.2294
134	2	Cadmium	Aplexa hypnorum	Growth	0.0500	-0.0513	13.0406	22.3965	9.8651	0.1982	0.1441	0.2725
134	2	Cadmium	Aplexa hypnorum	Growth	0.1000	-0.1054	13.3991	23.1150	10.1087	0.2087	0.1540	0.2827
134	2	Cadmium	Aplexa hypnorum	Growth	0.2000	-0.2231	14.1802	24.6816	10.6381	0.2335	0.1779	0.3066
134	3	Cadmium	Aplexa hypnorum	Reproduction	0.0500	-0.0513	4.7200	5.8063	4.0854	0.2475	0.0732	0.8369
134	3	Cadmium	Aplexa hypnorum	Reproduction	0.1000	-0.1054	4.7568	5.8563	4.1146	0.2572	0.0793	0.8341
134	3	Cadmium	Aplexa hypnorum	Reproduction	0.2000	-0.2231	4.8371	5.9653	4.1783	0.2797	0.0942	0.8301
135	1	Copper	Clistronia magnifica	Survival	0.0500	1.6449	-73.7146	-17.3598	-2928.7110	0.0450	0.0120	0.1287
135	1	Copper	Clistronia magnifica	Survival	0.1000	1.2816	-35.6347	4.6352	-1862.8749	0.0933	0.0377	0.1940
135	1	Copper	Clistronia magnifica	Survival	0.2000	0.8416	10.4771	43.1502	-584.1115	0.1930	0.1138	0.2991
135	2	Copper	Clistronia magnifica	Survival	0.0500	1.6449	-18.2420	-7.3937	-48.7245	0.0450	0.0120	0.1287
135	2	Copper	Clistronia magnifica	Survival	0.1000	1.2816	-12.3664	-3.3115	-37.3486	0.0933	0.0377	0.1940
135	2	Copper	Clistronia magnifica	Survival	0.2000	0.8416	-5.2516	1.7403	-23.6818	0.1930	0.1138	0.2991
135	3	Copper	Clistronia magnifica	Generational Count	0.0500	-0.0513	24.8416	58.8986	17.4761	0.2475	0.0732	0.8369
135	3	Copper	Clistronia magnifica	Generational Count	0.1000	-0.1054	25.1996	59.9342	17.6999	0.2572	0.0793	0.8341
135	3	Copper	Clistronia magnifica	Generational Count	0.2000	-0.2231	25.9797	62.1912	18.1864	0.2797	0.0942	0.8301
135	4	Copper	Clistronia magnifica	Generational Count	0.0500	-0.0513	57.5477	152.5329	36.7175	0.2475	0.0732	0.8369
135	4	Copper	Clistronia magnifica	Generational Count	0.1000	-0.1054	58.1600	154.2483	37.0937	0.2572	0.0793	0.8341
135	4	Copper	Clistronia magnifica	Generational Count	0.2000	-0.2231	59.4941	157.9856	37.9128	0.2797	0.0942	0.8301
136	2	Nickel	Clistronia magnifica	Survival	0.0500	1.6449	-83.9788	23.4119	-598.2846	0.0647	0.0220	0.1540
136	2	Nickel	Clistronia magnifica	Survival	0.1000	1.2816	-22.1908	65.8057	-403.8780	0.1223	0.0586	0.2235
136	2	Nickel	Clistronia magnifica	Survival	0.2000	0.8416	52.6297	125.5719	-176.8975	0.2308	0.1501	0.3314
137	2	Selenium IV	Daphnia magna	Reproduction	0.0500	-0.0513	1267.5333	2434.4367	879.5324	0.2475	0.0732	0.8369
137	2	Selenium IV	Daphnia magna	Reproduction	0.1000	-0.1054	1280.9582	2461.4383	888.5097	0.2572	0.0793	0.8341

TEST ID	Metal	Species	Parameter	Predicted		Estimated Concentration			ECXX Modeled	Lower Response	Upper Response	
				ECXX	linkP	(ug/L)	Upper CI	Lower CI				
137	2	Selenium IV	Daphnia magna	Reproduction	0.2000	-0.2231	1310.2037	2520.2639	908.0627	0.2797	0.0942	0.8301
138	1	Arsenic III	Daphnia magna	Growth	0.0500	-0.0513	19043.7826	56409.0562	1.17E+04	0.1982	0.1441	0.2725
138	1	Arsenic III	Daphnia magna	Growth	0.1000	-0.1054	19793.9895	58698.8466	1.22E+04	0.2087	0.1540	0.2827
138	1	Arsenic III	Daphnia magna	Growth	0.2000	-0.2231	21428.2817	63687.2100	1.31E+04	0.2335	0.1779	0.3066
138	3	Arsenic III	Daphnia magna	Survival	0.0500	1.6449	-81.0847	267.8575	-679.4205	0.0539	0.0215	0.1166
138	3	Arsenic III	Daphnia magna	Survival	0.1000	1.2816	249.5979	555.1281	-213.5142	0.1065	0.0567	0.1821
138	3	Arsenic III	Daphnia magna	Survival	0.2000	0.8416	650.0286	944.9325	308.7196	0.2102	0.1453	0.2896

TEST ID	Mean Beta1	Mean Beta0	Mean Beta1Err	Mean Beta0Err	Mean Corr	Mean Log Likelihood	Mean Prob	StdDev Beta1	StdDev Beta0	StdDev Beta1Err	StdDev Beta0Err	StdDev Corr	StdDev Log Likelihood	
24	4	-2.9144	6.3394	0.6618	0.1245	-0.4724	421.7043	0.0000						
25	1	-0.2607	1.1501	0.0514	0.1261	-0.7487	-149.2527	0.0003	0.0305	0.1186	0.0020	0.0091	0.0203	10.4056
25	2	-0.2044	-1.6392	0.0688	0.1511	-0.6917	11.6251	0.0442	0.0946	0.2101	0.0217	0.0480	0.0197	2.2282
25	3	-0.2189	1.6117	0.0711	0.1973	-0.7882	-106.7912	0.0480	0.0701	0.2805	0.0241	0.0764	0.0435	116.6042
25	5	-0.1453	3.8829	0.0262	0.0505	-0.7726	-11.7502	0.0078	0.0397	0.0619	0.0109	0.0207	0.0048	2.3710
25	6	-0.5220	0.2857	0.0892	0.1689	-0.7816	3.4203	0.0190	0.1626	0.2048	0.0475	0.0853	0.0206	2.5688
25	7	-0.2066	1.8811	0.0545	0.1054	-0.7735	-5.0871	0.0483	0.0435	0.0712	0.0179	0.0348	0.0109	1.8540
25	8	-0.2137	0.7950	0.0491	0.0512	-0.7270	2.9760	0.0486	0.0728	0.0549	0.0209	0.0220	0.0054	2.2885
33	2	-0.0221	1.7031	0.0044	0.1827	-0.8689	-107.2513	0.0112	0.0111	0.7141	0.0016	0.0650	0.0482	51.1497
35	1	-0.0255	1.9242	0.0048	0.1968	-0.8799	-125.9478	0.0001	0.0075	0.3824	0.0008	0.0463	0.0345	23.8761
35	2	-0.0606	2.0793	0.0048	0.1574	-0.8443	-146.4189	0.0000	0.0052	0.2220	0.0006	0.0263	0.0293	21.1515
36	1	-0.0293	1.8147	0.0040	0.1785	-0.8807	-155.2478	0.0000	0.0061	0.3537	0.0006	0.0409	0.0280	22.0348
36	2	-0.0689	2.3472	0.0046	0.1572	-0.8958	-219.2991	0.0000	0.0044	0.1967	0.0006	0.0299	0.0211	28.2016
38	1	-0.0137	1.3799	0.0043	0.2754	-0.8206	-64.5347	0.0380	0.0024	0.1960	0.0011	0.0766	0.0167	89.2284
38	2	-0.0070	1.4584	0.0026	0.1158	-0.6940	-13.0313	0.0489	0.0006	0.0270	0.0002	0.0097	0.0029	0.8685
38	3	-0.1372	4.5627	0.0232	0.2729	-0.8771	168.1938	0.0032	0.0210	0.3224	0.0045	0.0697	0.0119	134.3944
39	1	-0.1343	2.4814	0.0260	0.3555	-0.9259	-55.8673	0.0000	0.0000	0.0000	0.0016	0.0223		7.0084
39	2	-0.0255	4.1432	0.0047	0.0488	-0.8811	-27.0715	0.0000						
40	1	-0.0643	2.1317	0.0127	0.3861	-0.8486	-24.5263	0.0000	0.0051	0.2343	0.0011	0.0534	0.0211	3.2557
40	2	-0.0859	4.8330	0.0162	0.4697	-0.7276	-19.5787	0.0000	0.0017	0.0515	0.0005	0.0140	0.0015	0.2374
41	2	-0.0501	5.1842	0.0069	0.4129	-0.6453	-42.6001	0.0000						
42	2	-0.0044	5.3751	0.0012	0.0895	-0.6973	-27.9283	0.0493	0.0012	0.0981	0.0004	0.0287	0.0122	1.7330
42	5	-0.0224	0.2159	0.0032	0.1200	-0.8144	-216.3409	0.0000						
43	1	-0.1722	2.5554	0.0449	0.6052		-27.9958	0.0289	0.0332	0.5030	0.0100	0.1361		23.9326
43	2	-0.0746	5.2946	0.0070	0.0865	-0.8801	-21.4151	0.0000	0.0043	0.0559	0.0017	0.0206	0.0029	1.5140
43	3	-0.0191	3.8975	0.0044	0.0453	-0.8852	-10.1331	0.0481	0.0050	0.0532	0.0015	0.0151	0.0028	1.8046
44	1	-0.7013	1.9081	0.2046	0.2862	-0.9270	-280.8173	0.0460	0.2560	0.4184	0.1085	0.1630	0.0140	634.7734
45	1	-0.0114	0.5858	0.0031	0.1541	-0.6957	-103.4869	0.0213	0.0008	0.0592	0.0006	0.0311	0.0017	63.3430
46	1	-0.0643	1.7305	0.0173	0.3348		-27.6117	0.0002						
46	2	-0.0133	3.8057	0.0026	0.0388	-0.6871	-14.1993	0.0212	0.0022	0.0313	0.0008	0.0114	0.0036	1.9152
46	3	-0.2004	8.7359	0.0255	0.1275	-0.7660	1037.3323	0.0000						
47	2	-0.3997	1.4166	0.1204	0.1290	-0.6996	13.7928	0.0009						
47	3	-0.3910	6.4977	0.1481	0.1596	-0.7000	400.4758	0.0083						

47	8	-0.2292	0.3910	0.0431	0.0734	-0.7652	3.9466	0.0001	0.0139	0.0207	0.0055	0.0091	0.0026	0.6907
48	1	-0.0035	0.7749	0.0012	0.2551		-58.4072	0.0488	0.0010	0.3457	0.0004	0.0810		192.2819
48	2	-0.0033	0.5295	0.0007	0.1118		-137.9017	0.0005	0.0002	0.0577	0.0001	0.0235		65.2058
48	3	-0.0030	4.4599	0.0007	0.0943	-0.6276	-19.0421	0.0094	0.0003	0.0349	0.0001	0.0168	0.0032	0.9331
49	1	-0.0042	0.8781	0.0006	0.1240	-0.5766	-106.2737	0.0000	0.0002	0.0775	0.0000	0.0229	0.0514	22.7133
50	1	-0.0038	0.8892	0.0010	0.2435	-0.6495	-145.6407	0.0455	0.0009	0.3413	0.0003	0.0922	0.0424	550.7996
51	1	-0.0124	1.1829	0.0023	0.1721	-0.7514	-2.1E+13	0.0416	0.0089	0.6776	0.0022	0.1496	0.1432	1.0E+14
51	2	-0.0294	2.6396	0.0048	0.3535	-0.9512	-6.0E+11	0.0074	0.0069	0.5014	0.0028	0.2145	0.0168	1.9E+12
51	3	-0.0014	4.3676	0.0006	0.0717	-0.5435	-22.5067	0.0499	0.0002	0.0280	0.0001	0.0117	0.0019	1.0441
52	1	-0.0042	0.8382	0.0015	0.2483	-0.3272	-36.9538	0.0479	0.0052	0.3449	0.0014	0.0945		44.3406
52	2	-0.0033	0.1842	0.0013	0.1719		-46.7940	0.0355	0.0002	0.0404	0.0002	0.0155		8.5995
52	3	-0.0186	4.2594	0.0056	0.1956	-0.5097	-31.2692	0.0034	0.0008	0.0304	0.0002	0.0082	0.0014	0.3803
54	2	-0.0004	2.5740	0.0001	0.0548	-0.7323	-6.6948	0.0485	0.0001	0.0391	0.0000	0.0160	0.0044	1.8077
54	3	-0.0017	7.4159	0.0005	0.1863	-0.5900	456.9108	0.0482	0.0003	0.1521	0.0001	0.0590	0.0016	642.2686
54	4	-0.0031	2.1386	0.0004	0.2135		-106.1189	0.0000						
55	1	-0.0027	1.8366	0.0007	0.3088	-0.7388	-24.3736	0.0025	0.0004	0.2523	0.0002	0.0603	0.0597	4.3696
56	1	-0.0050	0.7781	0.0005	0.1115	-0.7690	-237.7466	0.0000	0.0002	0.0755	0.0001	0.0251	0.0046	98.5471
56	2	-0.0044	0.0697	0.0005	0.0730	-0.6750	-363.9612	0.0000	0.0002	0.0416	0.0000	0.0004	0.0025	3.2827
57	1	-0.0039	1.3666	0.0005	0.1778	-0.7796	-97.4195	0.0000	0.0003	0.1614	0.0001	0.0407	0.0148	62.0993
57	2	-0.0033	0.7508	0.0003	0.0816	-0.7385	-345.7719	0.0000	0.0001	0.0590	0.0000	0.0010	0.0035	5.5430
57	3	-0.0007	-0.0712	0.0002	0.0819	-0.7002	5.5939	0.0087	0.0001	0.0290	0.0000	0.0105	0.0038	1.0451
58	2	-0.0005	1.3989	0.0001	0.1259	-0.7651	-155.8955	0.0000	0.0000	0.1201	0.0000	0.0082	0.0185	10.8007
58	3	-0.0003	-0.6017	0.0000	0.0310	-0.6882	20.6138	0.0000	0.0000	0.0293	0.0000	0.0073	0.0035	2.3226
59	4	-0.2309	3.1579	0.0251	0.0431	-0.6928	-10.0729	0.0000	0.0217	0.0390	0.0075	0.0127	0.0040	1.8670
60	1	-0.0003	0.8950	0.0001	0.2160	-0.6480	-796.3290	0.0462	0.0001	0.3732	0.0001	0.1241	0.0808	3169.8907
60	2	-0.0006	5.1261	0.0002	0.0874	-0.5783	-22.3184	0.0349	0.0002	0.1202	0.0001	0.0321	0.0112	2.1420
60	4	-0.0002	3.2651	0.0000	0.0474	-0.5372	-12.6998	0.0003	0.0000	0.0365	0.0000	0.0157	0.0041	2.2716
61	1	-0.0118	1.6008	0.0016	0.1714	-0.7015	-74.9512	0.0000	0.0009	0.1524	0.0003	0.0402		46.8303
61	2	-0.0008	5.8279	0.0003	0.0323	-0.6111	-46.6017	0.0463	0.0002	0.0221	0.0001	0.0057	0.0034	1.9032
61	3	-0.0128	2.8299	0.0015	0.3212	-0.9379	-3.48E+04	0.0025	0.0020	0.5104	0.0010	0.2052	0.0103	2.58E+05
62	1	-0.0009	1.1301	0.0002	0.2003	-0.8034	-84.1122	0.0385	0.0004	0.4289	0.0000	0.0523	0.0530	24.1806
62	5	-0.0002	0.6581	0.0002	0.1383	-0.6666	-632.6945	0.0343	0.0008	0.7762	0.0001	0.0923	0.0822	1705.2488
62	6	-0.0004	2.7969	0.0001	0.1050	-0.7621	-9.9051	0.0484	0.0003	0.2299	0.0001	0.0409	0.0103	2.2660
63	2	-0.0012	1.4532	0.0002	0.2227	-0.7593	-48.9401	0.0000	0.0001	0.1839	0.0000	0.0187	0.0198	4.5281
63	3	-0.0014	5.8634	0.0002	0.1322	-0.8418	-17.1217	0.0000	0.0001	0.0616	0.0000	0.0292	0.0030	0.8924
63	5	-0.0013	3.6889	0.0002	0.5046		-8.54E+09	0.0341	0.0004	1.4331	0.0002	0.4568		4.66E+10
64	1	-0.0044	0.7896	0.0013	0.3219		-34.2344	0.0074	0.0003	0.1036	0.0002	0.0595		14.7898

64	2	-0.0037	1.6883	0.0007	0.2823	-0.8284	-49.4505	0.0013	0.0003	0.1794	0.0002	0.0757	0.0237	22.3139
65	2	-0.0125	2.1044	0.0028	0.4234	-0.8272	-19.7814	0.0149	0.0016	0.3229	0.0006	0.1091	0.0381	9.1523
66	2	-0.0012	6.4794	0.0003	0.1001	-0.7895	-46.5515	0.0001						
66	3	-0.0003	5.1052	0.0001	0.0303	-0.7802	-28.1835	0.0015						
67	1	-0.0115	1.9457	0.0023	0.3120		-26.4137	0.0000						
67	4	-0.0133	7.9673	0.0056	0.2874	-0.7618	185.9968	0.0175						
67	6	-0.0445	3.1232	0.0056	0.3824	-0.9402	-59.7613	0.0000	0.0000	0.0000	0.0007	0.0442		13.7110
68	1	-0.0061	1.6212	0.0013	0.3228		-25.4214	0.0009	0.0004	0.1382	0.0002	0.0526		7.7375
68	2	-0.0087	9.2133	0.0024	0.2013	-0.6534	364.5692	0.0330	0.0011	0.1238	0.0003	0.0335	0.0053	137.6685
68	3	-0.0058	2.0758	0.0012	0.2695	-0.9009	-110.5290	0.0207	0.0012	0.3372	0.0004	0.0989	0.0291	101.4721
68	4	-0.0034	1.5949	0.0012	0.2377	-0.8222	-68.2340	0.0499	0.0006	0.1627	0.0003	0.0644	0.0257	40.2247
68	5	-0.0079	1.4653	0.0009	0.1896	-0.8542	-131.4939	0.0000	0.0027	0.7587	0.0002	0.0767	0.0480	34.4917
70	1	-0.0001	1.2424	0.0000	0.3289	-0.6594	-27.6203	0.0444	0.0000	0.1385	0.0000	0.0978	0.0246	26.7307
70	2	-0.0001	4.0936	0.0000	0.0401	-0.6800	-13.7885	0.0000	0.0000	0.0356	0.0000	0.0132	0.0039	2.2965
70	3	0.0000	2.8486	0.0000	0.0373	-0.7463	-5.5889	0.0046	0.0000	0.0422	0.0000	0.0138	0.0031	2.2536
70	5	-0.0001	4.1263	0.0000	0.0525	-0.7000	-15.6342	0.0000	0.0000	0.0338	0.0000	0.0149	0.0045	1.8812
70	6	0.0000	2.6039	0.0000	0.0303	-0.6910	-5.3420	0.0001	0.0000	0.0366	0.0000	0.0081	0.0041	1.6606
121	1	-1.7208	2.9248	0.6013	0.9087	-0.9046	-6.8227	0.0455	0.3206	0.5890	0.1606	0.2991	0.0263	5.1742
121	2	-1.1791	6.3376	0.4822	0.4120	-0.8215	86.4175	0.0497	0.1189	0.1745	0.0369	0.0465	0.0069	26.6511
122	1	-0.5372	1.7104	0.1723	0.4958		-12.0632	0.0253	0.0583	0.2199	0.0236	0.0798		3.1164
122	2	-0.3926	4.4452	0.1510	0.2456	-0.6217	86.4234	0.0474	0.0616	0.1254	0.0166	0.0294	0.0096	24.0443
123	1	-4.1717	1.5319	1.6580	0.2693	-0.7848	-36.7263	0.0419	0.9621	0.2369	0.1031	0.0320	0.0334	5.0157
123	2	-10.8298	5.3501	2.8018	0.1887	-0.6422	243.7470	0.0129	1.6312	0.1153	0.5813	0.0438	0.0245	241.9413
124	1	-3.4349	3.0663	1.5918	1.3356		-4.6656	0.0489	0.8077	0.7893	0.4092	0.4294		0.6958
131	1	-0.1306	0.5440	0.0330	0.2262	-0.8060	-59.3571	0.0001						
132	2	-0.3269	5.6194	0.0306	0.1402	-0.9021	959.1467	0.0000	0.0000	0.0000	0.0066	0.0303	0.0000	405.5716
132	3	-0.1554	1.1804	0.0217	0.1561	-0.7893	-113.1428	0.0000						
133	1	-0.2962	1.2345	0.0688	0.3136	-0.8251	-75.9025	0.0490	0.0482	0.3365	0.0312	0.1338	0.0188	151.9410
133	2	-0.0451	1.7935	0.0156	0.1265	-0.8549	-3.0096	0.0495	0.0128	0.1358	0.0067	0.0544	0.0046	2.0552
133	3	-0.2871	4.7817	0.1056	0.3011	-0.6350	65.8046	0.0486	0.0387	0.1566	0.0091	0.0477	0.0056	24.7263
134	1	-0.3434	0.8283	0.0805	0.3036	-0.7445	-142.8466	0.0447	0.0861	0.1419	0.0352	0.1477	0.0341	756.8645
134	2	-0.1508	1.9152	0.0388	0.1786	-0.8693	-3.5729	0.0478	0.0358	0.1720	0.0146	0.0679	0.0052	1.9379
134	3	-1.4686	6.8804	0.1991	0.3614	-0.9630	591.2239	0.0138	0.2428	0.5241	0.0526	0.1130	0.0105	589.3132
135	1	-0.0095	0.9416	0.0047	0.2107	-0.7045	-46.5328	0.0421						
135	2	-0.0618	0.5169	0.0154	0.2421	-0.8217	-61.1911	0.0015	0.0046	0.0845	0.0027	0.0415	0.0044	23.0707
135	3	-0.1510	3.6996	0.0506	0.4342	-0.8444	34.1444	0.0445	0.0243	0.2239	0.0060	0.0652	0.0181	17.8708
135	4	-0.0883	5.0295	0.0290	0.2554	-0.5857	86.9008	0.0200	0.0095	0.1138	0.0017	0.0284	0.0025	21.3884

136	2	-0.0059	1.1511	0.0021	0.3595	-0.7967	-22.6773	0.0058	0.0007	0.1516	0.0002	0.0333	0.0288	1.1995
137	2	-0.0040	5.0536	0.0010	0.1924	-0.6569	226.5270	0.0202	0.0005	0.1415	0.0002	0.0493	0.0010	210.6432
138	1	-0.0001	1.3212	0.0000	0.0310	-0.6785	1.5629	0.0471	0.0000	0.0289	0.0000	0.0100	0.0037	1.9809
138	3	-0.0011	1.5558	0.0002	0.2286	-0.6995	-37.7360	0.0000	0.0001	0.2012	0.0000	0.0243	0.0264	5.1536

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX	
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0	0
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0	0.17
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.03	0.17
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.09	0
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.09	0.34
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.29	0.17
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.29	1
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.91	1
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	0.96	0.84
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	2.9	1
24	3	Methylmercuric chloride	Salvelinus fontinalis	Generational Survival	McKim et al., 1976	2.97	1
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0	0
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0	0.267651888
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.03	0.142857143
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.03	0.308702792
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.09	0.293924466
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.29	0.270935961
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.29	0.513957307
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.91	1
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	0.96	1
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	2.9	1
24	4	Methylmercuric chloride	Salvelinus fontinalis	Reproduction	McKim et al., 1976	2.97	1
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	0	0
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	0.31	0.063829787
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	0.58	0.117021277
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	1.27	0.223404255
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	2.43	0.234042553
25	1	Mercury	Pimephales promelas	Survival	Snarski and Olson, 1982	4.51	0.468085106
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0	0
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.31	0.098214286
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.58	0.401785714
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	1.27	0.361607143
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	2.43	0.415178571
25	2	Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	4.51	0.415178571
25	3	Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	0	0
25	3	Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	0.31	0.013278856
25	3	Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	0.58	0.064351379
25	3	Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	1.27	0.076608785

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
25	3 Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	2.43	0.120531154
25	3 Mercury	Pimephales promelas	Development	Snarski and Olson, 1982	4.51	0.24412666
25	5 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.26	0
25	5 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.5	0.043956044
25	5 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	1.02	0.021978022
25	5 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	2.01	0.164835165
25	5 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	3.69	0.395604396
25	6 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.26	0
25	6 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.5	0.108653846
25	6 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	1.02	0.109615385
25	6 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	2.01	0.479807692
25	6 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	3.69	0.798076923
25	7 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.26	0
25	7 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.5	0.04
25	7 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	1.02	-0.083478261
25	7 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	2.01	0.233043478
25	7 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	3.69	0.476521739
25	8 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0	0
25	8 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.26	0.181034483
25	8 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	0.5	0.103448276
25	8 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	1.02	0.267241379
25	8 Mercury	Pimephales promelas	Growth	Snarski and Olson, 1982	2.01	0.327586207
33	2 Lead	Salvelinus fontinalis	Growth	Holcombe et al., 1976	0.9	0
33	2 Lead	Salvelinus fontinalis	Growth	Holcombe et al., 1976	34	0.008547009
33	2 Lead	Salvelinus fontinalis	Growth	Holcombe et al., 1976	58	-0.136752137
33	2 Lead	Salvelinus fontinalis	Growth	Holcombe et al., 1976	119	0.247863248
35	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	7.6	0
35	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	13.2	0.017
35	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	27	0.05
35	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	55.1	0.301
35	2 Lead	Pimephales promelas	Development	Davies et al., 1976	4.1	0
35	2 Lead	Pimephales promelas	Development	Davies et al., 1976	7.6	0.007
35	2 Lead	Pimephales promelas	Development	Davies et al., 1976	13.2	0.036
35	2 Lead	Pimephales promelas	Development	Davies et al., 1976	27	0.322
35	2 Lead	Pimephales promelas	Development	Davies et al., 1976	55.1	0.898
36	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	7.2	0
36	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	14.6	0.06639839
36	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	31.2	0.144869215

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
36	1 Lead	Pimephales promelas	Survival	Davies et al., 1976	61.8	0.503018109
36	2 Lead	Pimephales promelas	Development	Davies et al., 1976	7.2	0
36	2 Lead	Pimephales promelas	Development	Davies et al., 1976	14.6	0.03
36	2 Lead	Pimephales promelas	Development	Davies et al., 1976	31.2	0.438
36	2 Lead	Pimephales promelas	Development	Davies et al., 1976	61.8	0.967
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	6.3	0
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	14	0.1
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	15	0.1
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	32	0.3
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	34	0.2
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	95	0.4
38	1 Copper	Pimephales promelas	Survival	Mount, 1968	95	0.5
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	4.4	0
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	4.4	0.280487805
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	5.3	0.333333333
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	6.3	0.447154472
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	14	0.327235772
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	15	0.172764228
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	32	0.093495935
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	34	-0.077235772
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	95	0.544715447
38	2 Copper	Pimephales promelas	Growth	Mount, 1968	95	0.668699187
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	6.3	0
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	14	0.513513514
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	15	0.594594595
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	34	1
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	36	1
38	3 Copper	Pimephales promelas	Reproduction	Mount, 1968	95	1
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	5	0
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	5	0.1
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	7.7	0
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	7.7	0.1
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	10.6	0.1
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	10.6	0.2
39	1 Copper	Pimephales promelas	Survival	Mount and Stephen, 1969	18.4	0.5
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	4.4	0
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	4.4	0.018518519
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	5	0.037037037

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	7.7	-0.037037037
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	7.7	0
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	10.6	0
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	10.6	0.018518519
39	2 Copper	Pimephales promelas	Growth	Mount and Stephen, 1969	18.4	0.314814815
40	1 Copper	Pimephales promelas	Survival	Lind et al., 1978	5	0
40	1 Copper	Pimephales promelas	Survival	Lind et al., 1978	9	0.02020202
40	1 Copper	Pimephales promelas	Survival	Lind et al., 1978	13.1	0.111111111
40	1 Copper	Pimephales promelas	Survival	Lind et al., 1978	26.2	0.373737374
40	1 Copper	Pimephales promelas	Survival	Lind et al., 1978	52.1	0.848484849
40	2 Copper	Pimephales promelas	Growth	Lind et al., 1978	5	0
40	2 Copper	Pimephales promelas	Growth	Lind et al., 1978	9	0.142857143
40	2 Copper	Pimephales promelas	Growth	Lind et al., 1978	13.1	0.875
40	2 Copper	Pimephales promelas	Growth	Lind et al., 1978	26.2	0.973214286
40	2 Copper	Pimephales promelas	Growth	Lind et al., 1978	52.1	0.982142857
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	4.3	0
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	4.3	0.327913279
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	18	0.758807588
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	18	0.910569106
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	29.9	0.883468835
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	29.9	0.994579946
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	44.1	0.986449865
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	44.1	0.989159892
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	71.8	0.997289973
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	71.8	1
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	119.4	0.997289973
41	2 Copper	Pimephales notatus	Reproduction	Horning and Neiheisel, 1979	119.4	1
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	3	0
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	12	0.032608696
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	21	-0.152173913
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	40	-0.086956522
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	77	0.108695652
42	2 Copper	Lepomis macrochirus	Growth	Benoit, 1975	162	0.27173913
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	12	0
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	12	0.04
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	21	0.12
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	40	0.64
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	40	0.68

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	77	0.8
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	77	0.84
42	5 Copper	Lepomis macrochirus	Survival	Benoit, 1975	162	1
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	1.2	0
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	7.4	0.010989011
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	9.4	0.010989011
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	11.7	0.120879121
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	15.5	0.43956044
43	1 Copper	Oncorhynchus tshawytscha	Survival	Chapman, 1982/1975	20.2	0.934065934
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	1.2	0
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	7.4	0.361581921
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	9.4	0.485875706
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	11.7	0.440677966
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	15.5	0.644067797
43	2 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	20.2	0.768361582
43	3 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	1.2	0
43	3 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	7.4	0.102296451
43	3 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	9.4	0.152400835
43	3 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	11.7	0.160751566
43	3 Copper	Oncorhynchus tshawytscha	Growth	Chapman, 1982/1975	15.5	0.237995825
44	1 Cadmium	Oncorhynchus tshawytscha	Survival	Chapman, 1975, 1982	0.5	0
44	1 Cadmium	Oncorhynchus tshawytscha	Survival	Chapman, 1975, 1982	0.7	0.021052632
44	1 Cadmium	Oncorhynchus tshawytscha	Survival	Chapman, 1975, 1982	1	-0.021052632
44	1 Cadmium	Oncorhynchus tshawytscha	Survival	Chapman, 1975, 1982	1.3	0.136842105
44	1 Cadmium	Oncorhynchus tshawytscha	Survival	Chapman, 1975, 1982	1.9	0.231578947
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	1	0
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	7.8	0.014285714
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	14	0.157142857
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	27	0.1
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	57	0.1
45	1 Cadmium	Pimephales promelas	Survival	Pickering and Gast, 1972	110	0.742857143
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	1.7	0
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	1.7	0.03
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	4.1	0.07
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	4.1	0.13
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	8.1	0.03
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	8.1	0.23
46	1 Cadmium	Jordanella floridae	Survival	Spehar, 1976	16	0.23

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX	
46	1	Cadmium	Jordanella floridae	Survival	Spehar, 1976	31	0.3
46	1	Cadmium	Jordanella floridae	Survival	Spehar, 1976	31	0.9
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	0.11	0
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	1.7	0.044444444
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	4.1	0.044444444
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	8.1	0.044444444
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	16	0.266666667
46	2	Cadmium	Jordanella floridae	Growth	Spehar, 1976	31	0.311111111
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	1.7	0
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	1.7	0.188679245
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	4.1	0.216981132
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	4.1	0.226415094
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	8.1	0.632075472
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	8.1	0.700471698
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	16	0.961556604
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	16	0.991745283
46	3	Cadmium	Jordanella floridae	Reproduction	Spehar, 1976	31	1
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.06	0
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.06	0.139534884
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.5	0.302325581
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.5	0.418604651
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.8	-0.023255814
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.9	0.372093023
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	1.6	0.767441861
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	1.7	0.302325581
47	2	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	3.4	0.767441861
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.06	0
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.06	0.2475
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.5	0.5275
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.5	0.625
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.8	0.3
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	0.9	0.11375
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	1.6	0.6225
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	1.7	0.46875
47	3	Cadmium	Salvelinus fontinalis	Generational Reproduction	Benoit et al., 1976	3.4	0.83
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	Benoit et al., 1976	0.06	0
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	Benoit et al., 1976	0.9	0.18115942
47	8	Cadmium	Salvelinus fontinalis	Generational Growth	Benoit et al., 1976	1.7	0.15942029

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
47	8 Cadmium	Salvelinus fontinalis	Generational Growth	Benoit et al., 1976	3.4	0.579710145
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	2.8	0
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	11	0.146341463
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	29	0.024390244
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	90	0.073170732
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	270	0.426829268
48	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	870	1
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	2.8	0
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	11	0.227848101
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	29	0.215189873
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	90	0.101265823
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	270	0.569620253
48	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	870	1
48	3 Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	2.8	0
48	3 Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	11	0.366972477
48	3 Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	29	0.385321101
48	3 Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	90	0.357798165
48	3 Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	270	0.642201835
49	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	2.8	0
49	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	11	0.096385542
49	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	29	0.132530121
49	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	270	0.361445783
49	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	870	1
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	2.8	0
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	11	0.090909091
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	29	0.102272727
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	90	0
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	270	0.318181818
50	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	870	1
51	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	8.2	0
51	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	34	0.021052632
51	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	79	-0.021052632
51	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	300	0.063157895
51	1 Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	800	1
51	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	8.2	0
51	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	34	0.053763441
51	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	79	-0.032258065
51	2 Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	300	0.150537634

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX	
51	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	800	1
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	0.13	0
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	2.5	0.15
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	8.2	0.31
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	34	0.38
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	79	0.39
51	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	300	0.44
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	0.47	0
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	0.78	0.119565217
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	2.5	0.086956522
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	8.2	0.130434783
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	34	-0.02173913
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	79	0.097826087
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	300	0.043478261
52	1	Cadmium	Salmo salar	Reproduction	Rombough and Garside, 1982	800	1
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	0.47	0
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	0.78	0.256097561
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	2.5	0.048780488
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	8.2	0.280487805
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	34	0.695121951
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	79	0.682926829
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	300	0.646341463
52	2	Cadmium	Salmo salar	Survival	Rombough and Garside, 1982	800	1
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	0.13	0
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	0.47	0.01
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	0.78	0.28
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	2.5	0.32
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	8.2	0.76
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	34	0.82
52	3	Cadmium	Salmo salar	Growth	Rombough and Garside, 1982	79	0.79
54	2	Nickel	Pimephales promelas	Growth	Pickering, 1974	0	0
54	2	Nickel	Pimephales promelas	Growth	Pickering, 1974	82	0.1171875
54	2	Nickel	Pimephales promelas	Growth	Pickering, 1974	180	-0.03125
54	2	Nickel	Pimephales promelas	Growth	Pickering, 1974	380	0.03125
54	2	Nickel	Pimephales promelas	Growth	Pickering, 1974	730	0.2734375
54	3	Nickel	Pimephales promelas	Reproduction	Pickering, 1974	0	0
54	3	Nickel	Pimephales promelas	Reproduction	Pickering, 1974	82	0.311291329
54	3	Nickel	Pimephales promelas	Reproduction	Pickering, 1974	180	0.17654398

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
54	3 Nickel	Pimephales promelas	Reproduction	Pickering, 1974	380	0.127885215
54	3 Nickel	Pimephales promelas	Reproduction	Pickering, 1974	730	0.689332502
54	3 Nickel	Pimephales promelas	Reproduction	Pickering, 1974	1600	0.977542109
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0.010309278
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0.051546392
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0.103092784
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	0	0.113402062
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	-0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	-0.020618557
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	-0.010309278
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	0
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	0.020618557
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	82	0.051546392
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	-0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	-0.010309278
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.010309278
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.06185567
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.103092784
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	-0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	-0.020618557
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	-0.010309278
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.020618557
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.041237113
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.051546392
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.092783505
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	180	0.134020619
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.030927835
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.051546392
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.257731959
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.278350516

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.298969072
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.340206186
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.381443299
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.505154639
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.525773196
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.680412371
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.711340206
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.773195876
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.855670103
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.865979381
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	0.958762887
54	4 Nickel	Pimephales promelas	Survival	Pickering, 1974	730	1
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	0	0
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	21	0.051020408
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	44.4	0.06122449
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	408.9	0.06122449
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	433.5	0.275510204
55	1 Nickel	Pimephales promelas	Survival	Lind et al., 1978	1532.1	1
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	35	0
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	62	0.014925373
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	134	0.029850746
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	238	0.343283582
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	431	0.925373134
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	700	1
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1100	1
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1680	1
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	2520	1
56	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	3730	1
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	0	0
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	35	0.12
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	62	-0.1
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	134	0.54
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	238	0.62
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	431	0.92
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	700	1
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1100	1
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1680	1
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	2520	1

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
56	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	3730	1
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	0	0
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	35	0.010869565
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	62	-0.032608696
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	134	0.065217391
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	238	0.358695652
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	431	0.652173913
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	700	0.913043478
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1100	0.967391304
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1680	1
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	2520	1
57	1 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	3730	1
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	35	0
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	62	0.036144578
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	134	0.34939759
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	238	0.481927711
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	431	0.710843374
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	700	0.903614458
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1100	0.987951807
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1680	1
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	2520	1
57	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	3730	1
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	0	0
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	35	0.134020619
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	62	0.237113402
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	134	0.144329897
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	238	0.113402062
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	431	0.237113402
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	700	0.206185567
57	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	1100	0.649484536
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	0	0
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	35	0.06122449
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	134	0.193877551
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	431	0.102040816
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	700	0.081632653
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1100	0.102040816
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	1680	0.285714286
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	2520	0.285714286

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
58	2 Nickel	Oncorhynchus mykiss	Survival	Nebeker et al., 1985	3730	0.714285714
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	0	0
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	35	0.018181818
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	134	-0.018181818
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	431	0.163636364
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	700	0.254545455
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	1100	0.309090909
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	1680	0.4
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	2520	0.581818182
58	3 Nickel	Oncorhynchus mykiss	Growth	Nebeker et al., 1985	3730	0.709090909
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	0.01	0
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	0.23	0.040178571
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	0.48	0.053571429
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	0.87	0.111607143
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	1.85	0.232142857
59	4 Mercury	Pimephales promelas	Growth	Call et al., 1983	3.7	0.580357143
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	0	0
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	18	0.03
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	66	0.03
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	260	0.14
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	1000	0.06
60	1 Chromium VI	Pimephales promelas	Generational Survival	Pickering, 1980	3950	0.63
60	2 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	0	0
60	2 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	18	0.210526316
60	2 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	66	0.263157895
60	2 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	260	0.210526316
60	2 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	1000	0.421052632
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	0	0
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	18	0.004048583
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	66	0.032388664
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	260	-0.072874494
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	1000	0
60	4 Chromium VI	Pimephales promelas	Generational Growth	Pickering, 1980	3950	0.534412956
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	0	0
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	0	0.03125
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	5	0.052083333
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	9	0.0625
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	13	0.041666667

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	19	0.03125
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	30	0.072916667
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	48	0.072916667
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	89	0.114583333
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	157	0.59375
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	271	0.979166667
61	1 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	495	1
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	0	0
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	5	0.052023121
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	9	0.046242775
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	13	0.063583815
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	19	-0.104046243
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	30	0.115606936
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	48	0.13583815
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	89	0.115606936
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	157	0.086705202
61	2 Chromium III	Oncorhynchus mykiss	Growth	Stevens and Chapman, 1984	271	0.190751445
61	3 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	89	0
61	3 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	157	0.054945055
61	3 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	271	0.725274725
61	3 Chromium III	Oncorhynchus mykiss	Survival	Stevens and Chapman, 1984	495	1
62	1 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	80	0
62	1 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	180	0.02
62	1 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	380	0.1
62	1 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	750	0.05
62	1 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	1400	0.57
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	0	0
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	80	0.011764706
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	180	-0.023529412
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	380	0.129411765
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	750	-0.035294118
62	5 Chromium III	Pimephales promelas	Generational Survival	Pickering manuscript, 198	1400	0.258823529
62	6 Chromium III	Pimephales promelas	Generational Growth	Pickering manuscript, 198	80	0
62	6 Chromium III	Pimephales promelas	Generational Growth	Pickering manuscript, 198	180	0.027027027
62	6 Chromium III	Pimephales promelas	Generational Growth	Pickering manuscript, 198	380	0.081081081
62	6 Chromium III	Pimephales promelas	Generational Growth	Pickering manuscript, 198	750	0.22972973
62	6 Chromium III	Pimephales promelas	Generational Growth	Pickering manuscript, 198	1400	0.20945946
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	0	0

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	230	0.033333333
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	390	0.188888889
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	820	0
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	1520	0.633333333
63	2 Selenium VI	Pimephales promelas	Survival	Spehar, 1986	2900	1
63	3 Selenium VI	Pimephales promelas	Growth	Spehar, 1986	230	0
63	3 Selenium VI	Pimephales promelas	Growth	Spehar, 1986	390	0.071748879
63	3 Selenium VI	Pimephales promelas	Growth	Spehar, 1986	820	0.372197309
63	3 Selenium VI	Pimephales promelas	Growth	Spehar, 1986	1520	0.825112108
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	0	0
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	2200	0.072164949
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	3800	0.927835052
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	6300	1
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	11300	1
63	5 Selenium VI	Oncorhynchus mykiss	Survival	Spehar, 1986	20700	1
64	1 Selenium IV	Oncorhynchus mykiss	Survival	Goettl and Davies, 1977	60	0
64	1 Selenium IV	Oncorhynchus mykiss	Survival	Goettl and Davies, 1977	130	0.4875
64	1 Selenium IV	Oncorhynchus mykiss	Survival	Goettl and Davies, 1977	260	0.4625
64	1 Selenium IV	Oncorhynchus mykiss	Survival	Goettl and Davies, 1977	490	0.9
64	1 Selenium IV	Oncorhynchus mykiss	Survival	Goettl and Davies, 1977	1000	1
64	2 Selenium IV	Oncorhynchus mykiss	Development	Goettl and Davies, 1977	60	0
64	2 Selenium IV	Oncorhynchus mykiss	Development	Goettl and Davies, 1977	130	0.16
64	2 Selenium IV	Oncorhynchus mykiss	Development	Goettl and Davies, 1977	260	0.3
64	2 Selenium IV	Oncorhynchus mykiss	Development	Goettl and Davies, 1977	490	0.46
64	2 Selenium IV	Oncorhynchus mykiss	Development	Goettl and Davies, 1977	1000	1
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	0	0
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	23	0.12
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	43	0.02
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	83	0.02
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	153	0.32
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	303	1
65	2 Selenium IV	Pimephales promelas	Survival	Kimball manuscript	593	1
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	0	0
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	0	0.025210084
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	166	0.082352941
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	180	-0.042016807
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	319	0.285714286
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	336	0.100840336

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	605	0.626890756
66	2 Zinc	Poecillia reticulata	Growth	Pierson 1981	609	0.364705882
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	0	0
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	0	0.104046243
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	166	0.121387283
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	180	0.086705202
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	319	0.046242775
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	336	0.150289017
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	605	0.248554913
66	3 Zinc	Poecillia reticulata	Growth	Pierson 1981	609	0.156069364
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	10	0
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	10	0.144329897
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	28	0.072164949
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	28	0.144329897
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	47	-0.030927835
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	47	0.072164949
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	75	-0.030927835
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	75	0
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	139	0.175257732
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	139	0.278350516
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	267	0.896907217
67	1 Zinc	Jordanella floridae	Survival	Spehar, 1976	267	1
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	10	0
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	10	0.673972603
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	28	0.57260274
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	28	0.660273973
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	47	0.115068493
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	47	0.72739726
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	75	0.547945206
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	75	0.64109589
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	139	0.946027397
67	4 Zinc	Jordanella floridae	Reproduction	Spehar, 1976	139	0.964383562
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	26	0
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	51	-0.043010753
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	51	0.11827957
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	85	0.752688172
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	85	0.784946237
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	139	1

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
67	6 Zinc	Jordanella floridae	Survival	Spehar, 1976	267	1
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	2	0
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	2	0.083333333
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	44	0.25
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	46	-0.041666667
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	78	-0.041666667
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	78	0
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	138	0.041666667
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	152	-0.041666667
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	294	0.708333333
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	295	0.333333333
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	574	1
68	1 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	577	1
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	2	0
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	2	0.178745005
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	44	0.423803867
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	46	-0.004320121
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	78	0.086186413
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	78	0.360298088
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	138	0.921913814
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	152	0.696295496
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	294	0.877092559
68	2 Zinc	Pimephales promelas	Reproduction	Benoit and Holcombe, 1978	295	0.970947187
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	44	0
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	46	0.010204082
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	78	0
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	78	0.020408163
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	138	-0.010204082
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	152	0.030612245
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	294	0.367346939
68	3 Zinc	Pimephales promelas	Survival	Benoit and Holcombe, 1978	295	0.346938776
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	2	0
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	2	0.090909091
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	44	0.03030303
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	46	0
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	78	0.03030303
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	138	0.161616162
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	152	0.161616162

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	294	0.393939394
68	4 Zinc	Pimephales promelas	Development	Benoit and Holcombe, 1978	295	0.101010101
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	44	0
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	46	0.02
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	78	0
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	78	0.02
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	138	0.14
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	152	0.04
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	294	0.82
68	5 Zinc	Pimephales promelas	Generational Survival	Benoit and Holcombe, 1978	295	0.82
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	0	0
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	1060	0.263157895
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	2130	0.052631579
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	4300	0.184210526
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	7400	-0.026315789
70	1 Arsenic III	Pimephales promelas	Survival	Lima et al., 1984	16500	0.763157895
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	0	0
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	1060	0.034482759
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	2130	0.137931035
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	4300	0.293103448
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	7400	0.551724138
70	2 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	16500	0.793103448
70	3 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	1060	0
70	3 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	2130	0.041176471
70	3 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	4300	0.082352941
70	3 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	7400	0.217647059
70	3 Arsenic III	Pimephales promelas	Growth	Lima et al., 1984	16500	0.341176471
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	0	0
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	1240	0.105263158
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	2130	0.087719298
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	4120	0.228070175
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	7600	0.403508772
70	5 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	16300	0.789473684
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	0	0
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	1240	0.043839758
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	2130	0.038548753
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	4120	0.084656085
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	7600	0.17989418

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
70	6 Arsenic III	Jordanella floridae	Growth	Lima et al., 1984	16300	0.405139834
121	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0	0
121	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0.36	0.05
121	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0.72	0.02
121	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	1.28	0.08
121	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	2.7	1
121	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	0.36	0
121	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	0.72	0.116838488
121	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	1.28	0.333333333
121	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	2.7	1
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0	0
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0.43	0.147368421
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	0.91	0.042105263
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	1.82	0.063157895
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	3.53	0.368421053
122	1 Mercury	Daphnia magna	Survival	Biesinger et al., 1982	5.31	1
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	0	0
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	0.43	0.014705882
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	0.91	-0.073529412
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	1.82	0.220588235
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	3.53	0.5
122	2 Mercury	Daphnia magna	Reproduction	Biesinger et al., 1982	5.31	1
123	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0	0
123	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.04	0.055555556
123	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.07	-0.055555556
123	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.13	-0.055555556
123	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.26	0.277777778
123	2 Methyl mercuric chloride	Daphnia magna	Growth	Biesinger et al., 1982	0	0
123	2 Methyl mercuric chloride	Daphnia magna	Growth	Biesinger et al., 1982	0.04	0.352112676
123	2 Methyl mercuric chloride	Daphnia magna	Growth	Biesinger et al., 1982	0.07	0.624413146
123	2 Methyl mercuric chloride	Daphnia magna	Growth	Biesinger et al., 1982	0.13	0.633802817
123	2 Methyl mercuric chloride	Daphnia magna	Growth	Biesinger et al., 1982	0.26	0.990610329
124	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.17	0
124	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.28	0.04040404
124	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.52	0.04040404
124	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	0.87	0.101010101
124	1 Methyl mercuric chloride	Daphnia magna	Survival	Biesinger et al., 1982	1.14	1
131	1 Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2	0

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX	
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2	0.444444444
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2.9	0.333333333
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2.9	0.666666667
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	4.6	0.444444444
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	4.6	0.666666667
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	8	0.444444444
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	8	0.555555556
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	14.8	0.888888889
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	14.8	1
131	1	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	28	1
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	2.9	0
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	2.9	0.068376068
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	4.6	0.572649573
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	4.6	0.581196581
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	8	0.752136752
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	8	0.786324786
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	14.8	0.982905983
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	14.8	1
132	2	Copper	Gammarus pseudolimnaeus	Reproduction	Arthur and Leonard, 1970	28	1
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	1.9	0
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	1.9	0.25
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	1.9	0.5
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2.8	-0.25
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2.8	0.125
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	2.8	0.25
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	3.7	-0.25
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	3.7	-0.125
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	3.7	0
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	6.2	-0.125
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	6.2	0.125
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	6.2	0.25
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	6.2	0.5
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	12.9	0.75
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	12.9	0.875
132	3	Copper	Gammarus pseudolimnaeus	Survival	Arthur and Leonard, 1970	23.9	1
133	1	Cadmium	Aplexa hypnorum	Survival	Holcombe et al., 1984	0	0
133	1	Cadmium	Aplexa hypnorum	Survival	Holcombe et al., 1984	1.52	0.279631761
133	1	Cadmium	Aplexa hypnorum	Survival	Holcombe et al., 1984	2.41	0.035673188

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
133	1	Cadmium	Survival	Holcombe et al., 1984	4.41	0.280782509
133	1	Cadmium	Survival	Holcombe et al., 1984	7.63	0.86306099
133	1	Cadmium	Survival	Holcombe et al., 1984	13.2	0.987341772
133	2	Cadmium	Growth	Holcombe et al., 1984	2.41	0
133	2	Cadmium	Growth	Holcombe et al., 1984	4.41	0.071428571
133	2	Cadmium	Growth	Holcombe et al., 1984	7.63	0.375
133	2	Cadmium	Growth	Holcombe et al., 1984	13.2	0.357142857
133	3	Cadmium	Reproduction	Holcombe et al., 1984	0	0
133	3	Cadmium	Reproduction	Holcombe et al., 1984	1.52	0.226804124
133	3	Cadmium	Reproduction	Holcombe et al., 1984	2.41	0.164948454
133	3	Cadmium	Reproduction	Holcombe et al., 1984	4.41	0.422680412
133	3	Cadmium	Reproduction	Holcombe et al., 1984	7.63	1
133	3	Cadmium	Reproduction	Holcombe et al., 1984	13.2	1
134	1	Cadmium	Survival	Holcombe et al., 1984	0	0
134	1	Cadmium	Survival	Holcombe et al., 1984	1.51	0.083063646
134	1	Cadmium	Survival	Holcombe et al., 1984	2.5	0.550161812
134	1	Cadmium	Survival	Holcombe et al., 1984	4.79	0.622437972
134	1	Cadmium	Survival	Holcombe et al., 1984	7.17	0.963322546
134	1	Cadmium	Survival	Holcombe et al., 1984	12.9	1
134	2	Cadmium	Growth	Holcombe et al., 1984	1.51	0
134	2	Cadmium	Growth	Holcombe et al., 1984	2.5	0.155172414
134	2	Cadmium	Growth	Holcombe et al., 1984	4.79	0.551724138
134	2	Cadmium	Growth	Holcombe et al., 1984	7.17	0.551724138
134	3	Cadmium	Reproduction	Holcombe et al., 1984	1.51	0
134	3	Cadmium	Reproduction	Holcombe et al., 1984	2.5	0.70754717
134	3	Cadmium	Reproduction	Holcombe et al., 1984	4.79	1
134	3	Cadmium	Reproduction	Holcombe et al., 1984	7.17	1
135	1	Copper	Survival	Nebeker et al., 1984	4.2	0
135	1	Copper	Survival	Nebeker et al., 1984	5.2	0.2
135	1	Copper	Survival	Nebeker et al., 1984	8.3	0.2
135	1	Copper	Survival	Nebeker et al., 1984	13	0.3
135	1	Copper	Survival	Nebeker et al., 1984	17	0.1
135	1	Copper	Survival	Nebeker et al., 1984	25	0.2
135	1	Copper	Survival	Nebeker et al., 1984	36	0
135	1	Copper	Survival	Nebeker et al., 1984	51	0.2
135	1	Copper	Survival	Nebeker et al., 1984	71	0.6
135	1	Copper	Survival	Nebeker et al., 1984	98	0.4
135	2	Copper	Survival	Nebeker et al., 1984	4.2	0

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX	
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	5.2	0.375
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	8.3	0.25
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	13	0.625
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	17	0.625
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	25	0.625
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	36	1
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	51	1
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	71	1
135	2	Copper	Clistoronia magnifica	Survival	Nebeker et al., 1984	98	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	4.2	0
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	5.2	0.304347826
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	8.3	0.739130435
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	13	0.260869565
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	17	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	25	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	36	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	51	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	71	1
135	3	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	98	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	0	0
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	0	0.424657534
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	4.2	0.095890411
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	5.2	0.143835616
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	8.3	0.452054795
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	13	0.109589041
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	17	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	25	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	36	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	51	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	71	1
135	4	Copper	Clistoronia magnifica	Generational Count	Nebeker et al., 1984	98	1
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	0	0
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	66	0.111111111
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	144	0.555555556
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	250	0.444444444
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	690	1
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	1669	1
136	2	Nickel	Clistoronia magnifica	Survival	Nebeker et al., 1984	3669	1

TEST ID	Metal	Species	Parameter	Citation	Exposure	Observed ECXX
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	0	0
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	70	0.071484072
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	120	0.273504274
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	190	0.20979021
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	300	0.554778555
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	480	0.911421911
137	2 Selenium IV	Daphnia magna	Reproduction	Kimball manuscript	920	1
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	72.8	0
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	132	0.024523161
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	270	-0.013623978
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	633	-0.016348774
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	1320	0.130790191
138	1 Arsenic III	Daphnia magna	Growth	Lima et al., 1984	2680	0.114441417
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	0	0
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	72.8	0.103092784
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	132	0.103092784
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	270	0.041237113
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	633	0.041237113
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	1320	0.453608247
138	3 Arsenic III	Daphnia magna	Survival	Lima et al., 1984	2680	0.931958763

- Arthur, J.W. and E.N. Leonard (1970): Effects of copper on *Gammarus pseudolimnaeus*, *Physa integra*, and *Campeloma decisum* in soft water. *J. Fish. Res. Board Can.*, 27:1277-1283.
- Benoit, D.A. and G.W. Holcombe (1978): Toxic effects of zinc on fathead minnows *Pimephales promelas* in soft water. *J. Fish Biol.*, 13:701-708.
- Benoit, D.A. (1975): Toxic effects of copper on survival, growth, and reproduction of the bluegill (*Lepomis macrochirus*). *Trans. Am. Fish. Soc.*, 104:353-358.
- Biesinger, K.E., L.E. Anderson, and J.G. Eaton (1982): Chronic effects of inorganic and organic mercury on *Daphnia magna*: Toxicity, accumulation, and loss. *Arch. Environ. Contam. Toxicol.*, 11:769-774.
- Call, D., L. Brooke, N. Ahmad, and J. Richter. (1983) Toxicity and metabolism studies with EPA priority pollutants and related chemicals in freshwater organisms. EPA 600/3-83-095. Duluth, MN, USEPA:120 p
- Chapman, G. A. Toxicity of copper, cadmium and zinc to Pacific northwest salmonids. -p. 1-28. 1975. Corvallis, OR, National Environmental Research Center, Office of Research and Development. Report
- Chapman, P.M., M.A. Farrell and R.O. Brinkhurst. 1982b. Effects of species interactions on the survival and respiration of *Limnodrilus hoffmeisteri* and *Tubifex tubifex* (Oligochaeta, Tubificidae) exposed to various pollutants and environmental factors. *Water Res.* 16:1405.
- Davies, P.H., J.P. Goettl Jr., J.R. Sinley, and N.F. Smith (1976): Acute and chronic toxicity of lead to rainbow trout *Salmo gairdneri*, in hard and soft water. *Wat. Res.*, 10:199-206.
- Goettl, J.P., J. P.H. Davies, and J.R. Sinley. 1976. Water Pollution Studies. In: D.B. Cope [Ed.]. Colorado Fish Res. Rev 1972-1975, DOW-R-R-F72-75, Colorado Div. of Wildl., Boulder, CO. 68-75.
- Holcombe, G.W., D.A. Benoit, E.N. Leonard, and J.M. McKim (1976): Long-term effects of lead exposure on three generations of brook trout (*Salvelinus fontinalis*). *J. Fish. Res. Board Can.*, 33:1731-1741.
- Holcombe, G.W., G.L. Phipps, and J.W. Marier (1984): Methods for conducting snail (*Aplexa hypnorum*) embryo through adult exposures: Effects of cadmium and reduced pH levels. *Arch. Environ. Contam. Toxicol.*, 13:627-634.
- Horning, W.B. and T.W. Neiheisel (1979): Chronic effect of copper on the bluntnose minnow, *Pimephales notatus* (rafinesque). *Arch. Environ. Contam. Toxicol.*, 8:545-552.
- Kimball, G. (1978): *The effects of lesser known metals and one organic to fathead minnows (Pimephales promelas) and Daphnia magna.* (UnPub)
- Lima, A.R., C. Curtis, D.E. Hammermeister, T.P. Markee, C.E. Northcott, and L.T. Brooke (1984): Acute and chronic toxicities of arsenic(III) to fathead minnows, flagfish, daphnids, and an amphipod. *Arch. Environ. Contam. Toxicol.*, 13:595-601.

Lind, D., K.Alto, and S.Chatterton. Regional copper-nickel study: Aquatic toxicology study. -p. 1-51. 1978. MN, Minnesota Environmental Quality Board. Report

McKim,J.M., G.F.Olson, G.W.Holcombe, and E.P.Hunt (1976): Long-term effects of methylmercuric chloride on three generations of brook trout (*Salvelinus fontinalis*): Toxicity, accumulation, distribution, and elimination. *J.Fish.Res.Board Can.* , 33:2726-2739.

Mount,D.I. and C.E.Stephan (1969): Chronic toxicity of copper to the fathead minnow (*Pimephales promelas*) in soft water. *J.Fish.Res.Board Can.* , 26:2449-2457.

Mount,D.I. (1968): Chronic toxicity of copper to fathead minnows (*Pimephales promelas*, rafinesque). *Wat.Res.* , 2:215-223.

Nebeker,A.V., C.Savonen, R.J.Baker, and J.K.McCrady (1984): Effects of copper, nickel and zinc on the life cycle of the caddisfly *Clistoronia magnifica* (limnephilidae). *Environ.Toxicol.Chem.* , 3:645-649.

Nebeker,A.V., C.Savonen, and D.G.Stevens (1985): Sensitivity of rainbow trout early life stages to nickel chloride. *Environ.Toxicol.Chem.* , 4:233-239.

Pickering,Q.H. (1981): *Chronic toxicity of trivalent chromium to the fathead minnow, (Pimephales promelas), in hard water.* (UnPub)

Pickering,Q.H. (1980): Chronic toxicity of hexavalent chromium to the fathead minnow (*Pimephales promelas*). *Arch.Environ.Contam.Toxicol.* , 9:405-413.

Pickering,Q.H. (1974): Chronic toxicity of nickel to the fathead minnow. *J.Water Poll.Control Fed.* , 46:760-765.

Pickering,Q.H. and M.H.Gast (1972): Acute and chronic toxicity of cadmium to the fathead minnow (*Pimephales promelas*). *J.Fish.Res.Board Can.* , 29:1099-1106.

Pierson,K.B. (1981): Effects of chronic zinc exposure on the growth, sexual maturity, reproduction, and bioaccumulation of the guppy, *Poecilia reticulata*. *Can.J.Fish.Aquat.Sci.* , 38:23-31.

Rombough,P.J. and E.T.Garside (1982): Cadmium toxicity and accumulation in eggs and alevins of Atlantic salmon *Salmo salar*. *Can.J.Zool.* , 60:2006-2014.

Snarski,V.M. and G.F.Olson (1982): Chronic toxicity and bioaccumulation of mercuric chloride in the fathead minnow (*Pimephales promelas*). *Aqu.Toxicol.* , 2:143-156.

Spehar,R.L. (1976): Cadmium and zinc toxicity to flagfish, *Jordanella floridae*. *J.Fish.Res.Board Can.* , 33:1939-1945.

Spehar, R.L. (1986). USEPA, Duluth, MN. (Memorandum to D.J. Call, Center for Lake Superior Environmental Studies, University of Wisconsin-Superior, Superior, WI. September 16.) (Cited from USEPA 1987).

Stevens,D.G. and G.A.Chapman (1984): Toxicity of trivalent chromium to early life stages of steelhead trout.
Environ.Toxicol.Chem. , 3:125-133.